



API 參考

Astra Automation

NetApp
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API 參考

Overview

The Astra Control REST API reference documentation contains the details of all the REST API calls, including the endpoints, HTTP methods, input parameters, and responses. This complete reference is helpful when developing automation applications using the API. The Astra REST API provides CRUD (Create-Read-Update-Delete) access to all the Astra Control resources except where noted for a specific resource category. This reference documentation applies to the 23.07 release of Astra Control REST API.

ASUP

ASUP overview

The ASUP API provides access to ASUP resources in order to create and optionally upload the AutoSupport bundles.

Create a new ASUP resource

POST /accounts/{account_id}/core/v1/asups

Indicates the desired values for the ASUP API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |

Request Body

Indicates the desired values for the ASUP API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-asup" |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" |
| upload | string | True | JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are: <ul style="list-style-type: none"> • "true" - Upload the AutoSupport bundle. • "false" - Do not upload the AutoSupport bundle. |
| dataWindowStart | string | False | JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| dataWindowEnd | string | False | JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example request

```
{
  "type": "application/astra-asup",
  "version": "1.0",
  "upload": "true"
}
```

Response

Status: 201, Returns the newly created asup resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "application/astra-asup" |
| version | string | True | <p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "1.0" |

| Name | Type | Required | Description |
|----------------------|-------------------------------|----------|--|
| id | string | True | <p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| creationState | string | True | <p>JSON string containing a value indicating the creation state of the AutoSupport bundle. For "completed" and "partial" states, the bundle can be downloaded by performing a GET of the resource URI with an Accept header containing "/" or "application/gzip". Defined values are:</p> <ul style="list-style-type: none"> • "running" - AutoSupport bundle generation is running normally. • "completed" - AutoSupport bundle generation has completed. • "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle. • "failed" - AutoSupport bundle generation is in a permanent failure state. |
| creationStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|--------|--------|----------|--|
| upload | string | True | <p>JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are:</p> <ul style="list-style-type: none">• "true" - Upload the AutoSupport bundle.• "false" - Do not upload the AutoSupport bundle. |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| uploadState | string | False | <p>JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running"). • "blocked" - AutoSupport bundle upload was not attempted because the bundle was not created ("creationState" is "failed") or upload was blocked because there is no license. • "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial"). • "completed" - AutoSupport bundle upload has completed. • "failed" - AutoSupport bundle upload is in a permanent failure state. |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| uploadStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "uploadState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| triggerType | string | True | <p>JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are:</p> <ul style="list-style-type: none"> • "manual" - The ASUP resource and associated AutoSupport bundle were created manually. • "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule. |
| dataWindowStart | string | True | <p>JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|---------------|---------------------|----------|--|
| dataWindowEnd | string | True | <p>JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-asup",
  "version": "1.0",
  "id": "9950003f-a1c7-5ca7-8930-06eec25f60aa",
  "creationState": "running",
  "creationStateDetails": [],
  "upload": "true",
  "uploadState": "pending",
  "uploadStateDetails": [],
  "triggerType": "manual",
  "dataWindowStart": "2020-08-05T12:24:00.000000Z",
  "dataWindowEnd": "2020-08-06T12:24:52.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all ASUP resources

GET /accounts/{account_id}/core/v1/asups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: asup_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-asups",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-asup",
      "version": "1.0",
      "id": "80796606-79ba-480b-966c-e4c600fbf623",
      "creationState": "completed",
      "creationStateDetails": [],
      "upload": "true",
      "uploadState": "running",
      "uploadStateDetails": [],
      "triggerType": "manual",
      "dataWindowStart": "2020-08-05T12:24:00.000000Z",
      "dataWindowEnd": "2020-08-06T12:24:52.000000Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1b32a508-cc6f-4f1b-809f-c42fd91b4848"
      }
    },
    {
      "type": "application/astra-asup",
      "version": "1.0",
      "id": "6503131d-8b36-4434-b34f-73661ae8100b",
      "creationState": "completed",
      "creationStateDetails": [],
      "upload": "true",
      "uploadState": "completed",
      "uploadStateDetails": [],
      "triggerType": "scheduled",
      "dataWindowStart": "2020-08-04T13:30:00.000000Z",
      "dataWindowEnd": "2020-08-05T13:30:00.000000Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-05T13:30:00.012321Z",
        "modificationTimestamp": "2020-08-05T13:30:00.012321Z",
        "createdBy": "1b32a508-cc6f-4f1b-809f-c42fd91b4848"
      }
    }
  ],
  "metadata": {
```

```

    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

asup_1.0_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-asup" |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| creationState | string | True | JSON string containing a value indicating the creation state of the AutoSupport bundle. For "completed" and "partial" states, the bundle can be downloaded by performing a GET of the resource URI with an Accept header containing "/" or "application/gzip". Defined values are: <ul style="list-style-type: none"> • "running" - AutoSupport bundle generation is running normally. • "completed" - AutoSupport bundle generation has completed. • "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle. • "failed" - AutoSupport bundle generation is in a permanent failure state. |

| Name | Type | Required | Description |
|----------------------|--------------------------------|----------|---|
| creationStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| upload | string | True | <p>JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Upload the AutoSupport bundle. • "false" - Do not upload the AutoSupport bundle. |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| uploadState | string | False | <p>JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running"). • "blocked" - AutoSupport bundle upload was not attempted because the bundle was not created ("creationState" is "failed") or upload was blocked because there is no license. • "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial"). • "completed" - AutoSupport bundle upload has completed. • "failed" - AutoSupport bundle upload is in a permanent failure state. |

| Name | Type | Required | Description |
|--------------------|--------------------------------|----------|---|
| uploadStateDetails | array[type_astra_stateDe tail] | False | <p>JSON array of JSON objects that lists additional details about why "uploadState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| triggerType | string | True | <p>JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are:</p> <ul style="list-style-type: none"> • "manual" - The ASUP resource and associated AutoSupport bundle were created manually. • "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule. |
| dataWindowStart | string | True | <p>JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|---------------|-------------------------------------|----------|---|
| dataWindowEnd | string | True | JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an ASUP resource

GET /accounts/{account_id}/core/v1/asups/{asup_id}

Returns the stored ASUP API resource in the JSON response body. If the AutoSupport bundle "creationState" is "completed" or "partial", the AutoSupport bundle can be downloaded by specifying an Accept header containing "/" or "application/gzip".

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| asup_id | string | path | True | ID of the asup collection to list |

Response

Status: 200, Returns the stored ASUP API resource in the JSON response body. If the AutoSupport bundle "creationState" is "completed" or "partial", the AutoSupport bundle can be downloaded by specifying an Accept header containing "*/*" or "application/gzip".

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-asup" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |

| Name | Type | Required | Description |
|----------------------|-------------------------------|----------|--|
| id | string | True | <p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| creationState | string | True | <p>JSON string containing a value indicating the creation state of the AutoSupport bundle. For "completed" and "partial" states, the bundle can be downloaded by performing a GET of the resource URI with an Accept header containing "/" or "application/gzip". Defined values are:</p> <ul style="list-style-type: none"> • "running" - AutoSupport bundle generation is running normally. • "completed" - AutoSupport bundle generation has completed. • "partial" - AutoSupport bundle generation has completed but some data was not included in the bundle. • "failed" - AutoSupport bundle generation is in a permanent failure state. |
| creationStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about why "creationState" transitioned into "partial" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|--------|--------|----------|--|
| upload | string | True | <p>JSON string containing a value indicating whether to upload the AutoSupport bundle after successful creation. Defined values are:</p> <ul style="list-style-type: none">• "true" - Upload the AutoSupport bundle.• "false" - Do not upload the AutoSupport bundle. |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| uploadState | string | False | <p>JSON string containing a value that indicates the state of the AutoSupport bundle upload if it was requested. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - AutoSupport bundle upload is scheduled for when AutoSupport bundle creation completes ("creationState" is "running"). • "blocked" - AutoSupport bundle upload was not attempted because the bundle was not created ("creationState" is "failed") or upload was blocked because there is no license. • "running" - AutoSupport bundle upload is running normally ("creationState" is "completed" or "partial"). • "completed" - AutoSupport bundle upload has completed. • "failed" - AutoSupport bundle upload is in a permanent failure state. |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| uploadStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "uploadState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| triggerType | string | True | <p>JSON string containing a value that indicates what triggered the creation of the ASUP resource. Defined values are:</p> <ul style="list-style-type: none"> • "manual" - The ASUP resource and associated AutoSupport bundle were created manually. • "scheduled" - The ASUP resource and associated AutoSupport bundle were created according to a configured schedule. |
| dataWindowStart | string | True | <p>JSON string containing a timestamp indicating the start time of the AutoSupport bundle data collection window. Defaults to 24 hours before the "dataWindowEnd" key value. Must occur before the "dataWindowEnd" key value. Maximum is 7 days before the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|---------------|---------------------|----------|--|
| dataWindowEnd | string | True | <p>JSON string containing a timestamp indicating the end time of the AutoSupport bundle data collection window. Defaults to the current time of the request. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-asup",
  "version": "1.0",
  "id": "9950003f-a1c7-5ca7-8930-06eec25f60aa",
  "creationState": "completed",
  "creationStateDetails": [],
  "upload": "false",
  "triggerType": "manual",
  "dataWindowStart": "2020-08-05T12:24:00.000000Z",
  "dataWindowEnd": "2020-08-06T12:24:52.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Account

Account overview

The Account API represents isolated tenants in a multitenant system.

Create a new account

POST /accounts

Indicates the desired values for the Account API resource to be created.

Request Body

Indicates the desired values for the Account API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-account" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |
| name | string | True | JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none">Minimum length: 1Maximum length: 63This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "name": "Testing 123"
}
```

Response

Status: 201, Returns the newly created account resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-account" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| state | string | True | JSON string containing a value indicating the operational state of the account. Defined values are: <ul style="list-style-type: none"> "pending" - Changes can only be made to user and role resources under the account (default value) "active" - Changes can be made to any resource under the account "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| isEnabled | string | True | <p>JSON string indicating the account is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account |
| enabledTimestamp | string | False | <p>JSON string containing the timestamp indicating when the account was last enabled. If the account has never been enabled, this field is absent. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| accountContact | accountContact | False | <p>JSON object containing user contact information to create an owner user at the time of account activation.</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "id": "666a3f38-d4fa-5b62-a391-a69029758d32",
  "name": "fraught-pines",
  "state": "pending",
  "isEnabled": "false",
  "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| firstName | string | True | JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| lastName | string | True | JSON string containing a user specified long-form last name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| companyName | string | False | JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|---------------|-------------------------------|----------|---|
| email | string | True | JSON strings containing a user specified email address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| phone | string | False | JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| postalAddress | postalAddress | True | JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty. |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|------|--------|----------|--|
| name | string | True | Name of the invalid request body field |

| Name | Type | Required | Description |
|--------|--------|----------|--|
| reason | string | True | Reason why the request body field is invalid |

List all accounts

GET /accounts

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: account_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-accounts",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-account",
      "version": "1.0",
      "id": "70796606-79ba-480b-966c-e4c600fbf622",
      "name": "fraught-pines",
      "state": "active",
      "isEnabled": "true",
      "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1723a17e-9fd1-4636-86e1-2ec9e04bce51"
      }
    },
    {
      "type": "application/astra-account",
      "version": "1.0",
      "id": "7976114d-35ec-48a7-ba31-22d8e94a8bb2",
      "name": "sad-dino",
      "state": "active",
      "isEnabled": "true",
      "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "1723a17e-9fd1-4636-86e1-2ec9e04bce51"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 31 |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| firstName | string | True | JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| lastName | string | True | <p>JSON string containing a user specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| email | string | True | <p>JSON strings containing a user specified email address. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------|-------------------------------|----------|---|
| phone | string | False | JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| postalAddress | postalAddress | True | JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

account_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-account" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the account. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue |
| isEnabled | string | True | <p>JSON string indicating the account is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account |
| enabledTimestamp | string | False | <p>JSON string containing the timestamp indicating when the account was last enabled. If the account has never been enabled, this field is absent. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|----------------|--|----------|--|
| accountContact | accountContact | False | JSON object containing user contact information to create an owner user at the time of account activation. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an account

GET /accounts/{account_id}

Returns the stored Account API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the account collection to list <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

Response

Status: 200, Returns the stored Account API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-account" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| name | string | True | <p>JSON string containing a name for the account. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| state | string | True | <p>JSON string containing a value indicating the operational state of the account. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue |
| isEnabled | string | True | <p>JSON string indicating the account is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account |

| Name | Type | Required | Description |
|------------------|--|----------|---|
| enabledTimestamp | string | False | <p>JSON string containing the timestamp indicating when the account was last enabled. If the account has never been enabled, this field is absent. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| accountContact | accountContact | False | <p>JSON object containing user contact information to create an owner user at the time of account activation.</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "id": "666a3f38-d4fa-5b62-a391-a69029758d32",
  "name": "fraught-pines",
  "state": "active",
  "isEnabled": "true",
  "enabledTimestamp": "2020-08-06T12:24:52.256624Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 31 |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| firstName | string | True | JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| lastName | string | True | <p>JSON string containing a user specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| email | string | True | <p>JSON strings containing a user specified email address. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------|-------------------------------|----------|---|
| phone | string | False | JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| postalAddress | postalAddress | True | JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an account

PUT /accounts/{account_id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

Side Effects

- Changing "isEnabled" from "false" to "true" sets "enabledTimestamp" to the current time.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the account collection to list <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

Side Effects

- Changing "isEnabled" from "false" to "true" sets "enabledTimestamp" to the current time.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-account" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the account. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| state | string | False | JSON string containing a value indicating the operational state of the account. Defined values are: <ul style="list-style-type: none"> • "pending" - Changes can only be made to user and role resources under the account (default value) • "active" - Changes can be made to any resource under the account • "deletePending" - Users cannot log in, data protection operations are suspended, charges no longer accrue |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| isEnabled | string | False | <p>JSON string indicating the account is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "false" - Users are not permitted to use this account • "true" - Users are permitted to use this account |
| enabledTimestamp | string | False | <p>JSON string containing the timestamp indicating when the account was last enabled. If the account has never been enabled, this field is absent. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| accountContact | accountContact | False | <p>JSON object containing user contact information to create an owner user at the time of account activation.</p> |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-account",
  "version": "1.0",
  "name": "frightened-pine"
}
```

Response

Status: 204, Indicates if the account resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | False | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | False | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | False | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | False | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 31 |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| streetAddress1 | string | False | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

accountContact

JSON object containing user contact information to create an owner user at the time of account activation.

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| firstName | string | False | JSON string containing a user specified long-form first name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| lastName | string | False | <p>JSON string containing a user specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| email | string | False | <p>JSON strings containing a user specified email address. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------|-------------------------------|----------|---|
| phone | string | False | JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| postalAddress | postalAddress | False | JSON object containing a collection of JSON strings specifying an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained JSON strings will be present. If you provide nothing, the string will be empty. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an account

DELETE /accounts/{account_id}

Removes the specified Account API resource.

Side Effects

- "deletePending" is set to "true" and the account can no longer be accessed.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the account collection to list • example: {{.Account}} |

Response

Status: 204, Indicates if the account resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

App

App overview

The App API represents Kubernetes applications, including those unmanaged by Astra.

Create a new app for a managed cluster

POST /accounts/{account_id}/topology/v2/managedClusters/{managedCluster_id}/apps

Indicates the desired values for the App API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |

Request Body

Indicates the desired values for the App API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "2.0" "2.1" "2.2" |
| name | string | True | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | False | JSON array of JSON objects describing the resources that are part of this app |
| namespaceMapping | array[namespaceMapping] | False | JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are: <ul style="list-style-type: none"> • Minimum Items: 0 |
| storageClassMapping | array[storageClassMapping] | False | JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are: <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| restoreFilter | restoreFilter | False | <p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "jenkins",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "namespaceScopedResources": [
    {
      "namespace": "production"
    }
  ]
}

```

Response

Status: 201, Returns the newly created app resource in the JSON response body.

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "2.0" "2.1" "2.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |
| name | string | True | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |

| Name | Type | Required | Description |
|---------------------------------|---|----------|---|
| namespaceScopedResources | array[namespaceScopedResources] | True | JSON array of JSON objects describing the resources that are part of this app |
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | True | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none">• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)• "openshift" - The cluster is of type OpenShift• "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|----------------------------|----------|--|
| restoreFilter | restoreFilter | False | JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [],
  "name": "jenkins",
  "namespaceScopedResources": [
    {
      "namespace": "production",
      "labelSelectors": []
    }
  ],
  "state": "pending",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production"
  ],
  "clusterName": "GKE-22",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```


Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | True | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| kind | string | True | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| version | string | True | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|--|
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none">• This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|--------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| destination | string | True | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|---------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | True | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | True | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 253• Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | True | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | False | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | False | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the apps for a managed cluster

GET /accounts/{account_id}/topology/v2/managedClusters/{managedCluster_id}/apps

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name,state |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: app_2.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-apps",
  "version": "2.2",
  "items": [
    [
      "2ff50f4b-fe40-4980-913f-8a4469184822",
      "mysql",
      "ready"
    ],
    [
      "ae1e6561-9e22-406c-8a5a-762f4604da00",
      "jenkins",
      "ready"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | True | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| kind | string | True | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |
| version | string | True | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|---|
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"> This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | True | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |
| destination | string | True | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 253 Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | False | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | False | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

app_2.2_get_response_body

| Name | Type | Required | Description |
|---------|------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "2.0" "2.1" "2.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |
| name | string | True | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|---------------------------------|---|----------|---|
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | True | JSON array of JSON objects describing the resources that are part of this app |
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none">• "pending" - The application is scheduled for discovery• "discovering" - The application is in the process of being discovered• "provisioning" - The application is in the process of being provisioned• "ready" - The application is running normally• "failed" - The application is in a permanent failure state• "restoring" - The application is being restored from backup or snapshot• "unavailable" - The application is not currently accessible• "unknown" - The application state cannot be determined• "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states. |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|--|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|-------------------------|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | True | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| restoreFilter | restoreFilter | False | <p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an app for a managed cluster

GET

/accounts/{account_id}/topology/v2/managedClusters/{managedCluster_id}/apps/{app_id}

Returns the stored App API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| app_id | string | path | True | ID of the app collection to list |

Response

Status: 200, Returns the stored App API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"2.0""2.1""2.2" |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |
| name | string | True | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | True | JSON array of JSON objects describing the resources that are part of this app |

| Name | Type | Required | Description |
|---------------------------------|--------|----------|---|
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | True | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none">• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)• "openshift" - The cluster is of type OpenShift• "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|----------------------------|----------|--|
| restoreFilter | restoreFilter | False | JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v2/managedClusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f"
    },
    {
      "rel": "collection",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v1/clouds/892814c9-77a1-46f3-b54a-82c34cdf0032/clusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/namespaces/da78daf6-8e11-4220-a461-6b1d4a6dc231/apps"
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "disruptiveBackup",
      "hints": {
        "allow": [],
        "permissions": [
          "appBackup-create"
        ]
      }
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "nonDisruptiveBackup",
      "hints": {
        "allow": [
          "POST"
        ],
        "permissions": [
```

```

        "appBackup-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "restore",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "app-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appSnaps",
    "type": "application/astra-appSnap",
    "title": "snapshot",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appSnap-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "clone",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [

```

```

        "app-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f",
    "type": "application/astra-app",
    "title": "inPlaceRestore",
    "hints": {
        "allow": [
            "PUT"
        ],
        "permissions": [
            "app-update"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appMirrors",
    "type": "application/astra-appMirror",
    "title": "replication",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appMirror-create"
        ]
    }
},
},
"name": "jenkins",
"namespaceScopedResources": [
    {
        "namespace": "production-clone",
        "labelSelectors": [
            "app = jenkins,release = production"
        ]
    }
],
"namespaceMapping": [

```

```

    {
      "source": "production",
      "destination": "production-clone"
    }
  ],
  "state": "ready",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production-clone"
  ],
  "snapshotID": "8d561930-0437-4647-b3e6-49b8a5362e3d",
  "clusterName": "GKE-24",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | True | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| kind | string | True | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |
| version | string | True | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|---|
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"> This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | True | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |
| destination | string | True | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | False | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | False | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an app for a managed cluster

PUT

/accounts/{account_id}/topology/v2/managedClusters/{managedCluster_id}/apps/{app_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|--------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| app_id | string | path | True | ID of the app collection to list |
| forceUpdate | string | header | False | Flag that enables destructive overwrites. Only include this when requesting an in-place restore (IPR). <ul style="list-style-type: none"> example: <code>true</code> |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|------------------------|---|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "2.0"• "2.1"• "2.2" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.• Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |

| Name | Type | Required | Description |
|---------------------------------|---|----------|---|
| namespaceScopedResources | array[namespaceScopedResources] | False | JSON array of JSON objects describing the resources that are part of this app |
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | False | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| stateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | False | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | False | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|----------------------------|----------|--|
| restoreFilter | restoreFilter | False | JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter. |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "mysql-old"
}
```

Response

Status: 204, Indicates if the app resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|--|
| GVK | GVK | False | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none">• This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | False | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | False | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | False | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | False | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |
| destination | string | False | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | True | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | True | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an app for a managed cluster

DELETE

/accounts/{account_id}/topology/v2/managedClusters/{managedCluster_id}/apps/{app_id}

Removes the specified App API resource.

Side Effects

- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer appear under /apps.
- First, the application goes into the deleting state and then deletes all associated schedules, snapshots, backups, and the stored application state.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| app_id | string | path | True | ID of the app collection to list |

Response

Status: 204, Indicates if the app resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/91",
  "title": "Application not deleted",
  "detail": "The application wasn't deleted because of an internal
server issue.",
  "status": "500"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/112",
  "title": "Application not ready",
  "detail": "The application is currently unavailable.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new app

POST /accounts/{account_id}/k8s/v2/apps

Indicates the desired values for the App API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates the desired values for the App API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"2.0""2.1""2.2" |

| Name | Type | Required | Description |
|--------------------------|---|----------|--|
| name | string | True | <p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | False | JSON array of JSON objects describing the resources that are part of this app |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| restoreFilter | restoreFilter | False | <p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "jenkins",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "namespaceScopedResources": [
    {
      "namespace": "production"
    }
  ]
}

```

Response

Status: 201, Returns the newly created app resource in the JSON response body.

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "2.0" • "2.1" • "2.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |
| name | string | True | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |

| Name | Type | Required | Description |
|---------------------------------|---|----------|---|
| namespaceScopedResources | array[namespaceScopedResources] | True | JSON array of JSON objects describing the resources that are part of this app |
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | True | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|----------------------------|----------|--|
| restoreFilter | restoreFilter | False | JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [],
  "name": "jenkins",
  "namespaceScopedResources": [
    {
      "namespace": "production",
      "labelSelectors": []
    }
  ],
  "state": "pending",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production"
  ],
  "clusterName": "GKE-22",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | True | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| kind | string | True | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| version | string | True | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|--|
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none">• This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|--------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| destination | string | True | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|---------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | True | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | True | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 253• Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | True | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | False | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | False | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all apps

GET /accounts/{account_id}/k8s/v2/apps

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name,state |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: app_2.2_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-apps",
  "version": "2.2",
  "items": [
    [
      "2ff50f4b-fe40-4980-913f-8a4469184822",
      "mysql",
      "ready"
    ],
    [
      "ae1e6561-9e22-406c-8a5a-762f4604da00",
      "jenkins",
      "ready"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | True | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| kind | string | True | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |
| version | string | True | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|---|
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"> This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | True | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |
| destination | string | True | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | False | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | False | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

app_2.2_get_response_body

| Name | Type | Required | Description |
|---------|------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "2.0" "2.1" "2.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |
| name | string | True | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|---------------------------------|---|----------|---|
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | True | JSON array of JSON objects describing the resources that are part of this app |
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none">• "pending" - The application is scheduled for discovery• "discovering" - The application is in the process of being discovered• "provisioning" - The application is in the process of being provisioned• "ready" - The application is running normally• "failed" - The application is in a permanent failure state• "restoring" - The application is being restored from backup or snapshot• "unavailable" - The application is not currently accessible• "unknown" - The application state cannot be determined• "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states. |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|--|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|-------------------------|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | True | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none">• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)• "openshift" - The cluster is of type OpenShift• "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| restoreFilter | restoreFilter | False | <p>JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an app

GET /accounts/{account_id}/k8s/v2/apps/{app_id}

Returns the stored App API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the app collection to list |

Response

Status: 200, Returns the stored App API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"2.0""2.1""2.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------------------------|---|----------|--|
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |
| name | string | True | <p>JSON string containing a name for the application. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | True | JSON array of JSON objects describing the resources that are part of this app |
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | True | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none">• "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE)• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS)• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS)• "openshift" - The cluster is of type OpenShift• "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|----------------------------|----------|--|
| restoreFilter | restoreFilter | False | JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "id": "39c1c79f-efab-5357-88fb-20e628c4dd96",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v2/managedClusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f"
    },
    {
      "rel": "collection",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/topology/v1/clouds/892814c9-77a1-46f3-b54a-82c34cdf0032/clusters/6a358976-c3ac-49aa-b043-9c9b425c90ac/namespaces/da78daf6-8e11-4220-a461-6b1d4a6dc231/apps"
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "disruptiveBackup",
      "hints": {
        "allow": [],
        "permissions": [
          "appBackup-create"
        ]
      }
    },
    {
      "rel": "related",
      "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appBackups",
      "type": "application/astra-appBackup",
      "title": "nonDisruptiveBackup",
      "hints": {
        "allow": [
          "POST"
        ],
        "permissions": [
```

```

        "appBackup-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "restore",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "app-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appSnaps",
    "type": "application/astra-appSnap",
    "title": "snapshot",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appSnap-create"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps",
    "type": "application/astra-app",
    "title": "clone",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [

```



```

        "app-create"
    ]
}
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v2/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f",
    "type": "application/astra-app",
    "title": "inPlaceRestore",
    "hints": {
        "allow": [
            "PUT"
        ],
        "permissions": [
            "app-update"
        ]
    }
},
{
    "rel": "related",
    "href": "/accounts/652f7a18-d4ed-47b2-b467-15bf2154d079/k8s/v1/apps/27467088-2e99-4bd8-aa9b-014d5f44a62f/appMirrors",
    "type": "application/astra-appMirror",
    "title": "replication",
    "hints": {
        "allow": [
            "POST"
        ],
        "permissions": [
            "appMirror-create"
        ]
    }
}
],
"name": "jenkins",
"namespaceScopedResources": [
    {
        "namespace": "production-clone",
        "labelSelectors": [
            "app = jenkins,release = production"
        ]
    }
]
},
"namespaceMapping": [

```

```

    {
      "source": "production",
      "destination": "production-clone"
    }
  ],
  "state": "ready",
  "stateDetails": [],
  "protectionState": "none",
  "protectionStateDetails": [],
  "namespaces": [
    "production-clone"
  ],
  "snapshotID": "8d561930-0437-4647-b3e6-49b8a5362e3d",
  "clusterName": "GKE-24",
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "clusterType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | True | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| kind | string | True | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |
| version | string | True | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none"> This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|---|
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none"> This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | True | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | True | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"]— Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"]— Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"]— Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"]— Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"]— Select all resources that have a label named app • ["!app"]— Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | True | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |
| destination | string | True | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | False | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | False | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an app

PUT /accounts/{account_id}/k8s/v2/apps/{app_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|--------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the app collection to list |
| forceUpdate | string | header | False | Flag that enables destructive overwrites. Only include this when requesting an in-place restore (IPR). • example: true |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "2.0" • "2.1" • "2.2" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the application. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. • Conforms to the DNS 1123 Label Schema |
| clusterScopedResources | array[clusterScopedResources] | False | JSON array of JSON objects describing the cluster-scoped resources that are part of this app |
| namespaceScopedResources | array[namespaceScopedResources] | False | JSON array of JSON objects describing the resources that are part of this app |

| Name | Type | Required | Description |
|---------------------------------|--------|----------|---|
| lastResourceCollectionTimestamp | string | False | <p>JSON string containing the timestamp when the last resource collection was performed. This field is unset if no resource collection has been performed for this application yet. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | False | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application is scheduled for discovery • "discovering" - The application is in the process of being discovered • "provisioning" - The application is in the process of being provisioned • "ready" - The application is running normally • "failed" - The application is in a permanent failure state • "restoring" - The application is being restored from backup or snapshot • "unavailable" - The application is not currently accessible • "unknown" - The application state cannot be determined • "deleting" - The application is in the process of being deleted |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| stateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | False | <p>JSON string containing a value indicating the protection state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The application has a protection policy defined and is in conformance with that policy • "partial" - The application has a protection policy defined, but is out of conformance with that policy • "none" - The application does not have a protection policy defined • "atRisk" - The default storage class on the cluster does not support snapshots, the application is at risk of gaining an unsupported volume |
| protectionStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| appDetectedType | string | False | <p>JSON string that uniquely represents the specific type of application that is detected. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The application contains a resource that identifies it as part of the Kubernetes environment • "acc" - The application contains resources that identify it as an Astra Control Center instance |
| namespaces | array[string] | False | <p>JSON array of JSON strings containing the names of the namespaces in which the application is running. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>JSON array of JSON objects, each mapping a source namespace to a destination namespace for a clone operation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| storageClassMapping | array[storageClassMapping] | False | <p>JSON array of JSON objects, each mapping a source storage class to a destination storage class for a restore operation. If no elements or not present, original source storage class names will be used. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| clusterName | string | False | <p>JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running.</p> |
| clusterID | string | False | <p>JSON string containing the ID of the cluster that the application is running on. Not returned if the application is not currently running. When specified on create, clusterID indicates which cluster the application must be cloned into. If the specified cluster does not exist, or if the cluster specified does not match the clusterID specified in the request URI, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine (GKE) • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service (AKS) • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service (Amazon EKS) • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| sourceAppID | string | False | <p>JSON string containing the ID of a source application. Only returned if the application was cloned from another application, or was restored from a backup or snapshot. When specified on create, the sourceAppID is used in conjunction with the sourceClusterID and indicates which running application will be cloned. If the specified application does not exist on the specified source cluster, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterName | string | False | <p>JSON string containing the name of the cluster the application was previously running on. Only returned if the application was cloned from another cluster.</p> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| sourceClusterID | string | False | <p>JSON string containing the ID of the cluster the application was previously running on. Only returned if the application was cloned from another cluster. When specified on create, the sourceClusterID is used in conjunction with the sourceAppID and indicates the source cluster of the application to be cloned. If the specified source cluster does not exist, the clone will fail. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| backupID | string | False | <p>JSON string containing the ID of the backup that the application was restored from. Only returned if the application was restored from a backup. When specified on create, backupID indicates that an application will be cloned from an existing backup. If the specified backup does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, backupID indicates the application backup from which the application will be in-place restored. If the specified backup does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the ID of the snapshot that the application was restored from. Only returned if the application was restored from a snapshot. When specified on create, snapshotID indicates that an application will be cloned from an existing snapshot. If the specified snapshot does not exist, the clone will fail. Only one of sourceAppID, backupID, or snapshotID can be specified when creating an application. When specified on a replace, snapshotID indicates the application snapshot from which the application will be in-place restored. If the specified snapshot does not exist, the restore will fail. Only one of backupID or snapshotID can be specified when updating an application. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicationSourceAppID | string | False | <p>JSON string containing the ID of the application that is being replicated to this application. Only returned if the application is currently the destination in an AppMirror relationship, and the relationship is not in the failedOver state. When the relationship is in the failedOver state, this field is not returned. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|----------------------------|----------|---|
| restoreFilter | restoreFilter | False | JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter. |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-app",
  "version": "2.2",
  "name": "mysql-old"
}
```

Response

Status: 204, Indicates if the app resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

- This object is internally validated against Astra /apiResources.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. <ul style="list-style-type: none">• This string is internally validated against Astra /apiResources |

clusterScopedResources

| Name | Type | Required | Description |
|------|---------------------|----------|--|
| GVK | GVK | False | JSON object containing a Kubernetes group/version/kind. <ul style="list-style-type: none">• This object is internally validated against Astra /apiResources. |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector for the cluster-scoped GroupVersionKinds (GVKs) within the cluster. If this is empty, then all GVK instances on the cluster are included. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

namespaceScopedResources

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| namespace | string | False | <p>JSON string containing the name of a namespace in which the application is defined. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings representing a label selector within the namespace. If this is empty, then all resources in the namespace are included. Each element in this array is a Kubernetes label selector string and follows the grammar for those values. Examples:</p> <ul style="list-style-type: none"> • ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql • ["app != mysql"] — Select all resources that have a label whose name is app and whose value is not mysql • ["app in (mysql, mariadb)"] — Select all resources that have a label whose name is app and value is mysql or mariadb • ["app notin (nginx, wordpress)"] — Select all resources that do not have a label whose name is app and whose values are nginx or wordpress • ["app"] — Select all resources that have a label named app • ["!app"] — Select all resources that do not have a label named app Note that multiple selection operators can be included in a single selector, separated by commas. In that case, the results of the individual |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

namespaceMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | False | <p>JSON string containing the name of the namespace on the source cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | False | <p>JSON string containing the name of the namespace on the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

storageClassMapping

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| source | string | False | <p>JSON string containing the name of the source storage class. Can also be '*' to specify all source storage classes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema if Storage Class name is used • '*' to specify all storage classes |
| destination | string | False | <p>JSON string containing the name of the destination storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

GVKN

| Name | Type | Required | Description |
|-------|--------|----------|--|
| group | string | False | <p>JSON string containing a group identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |

| Name | Type | Required | Description |
|------------|---------------|----------|--|
| version | string | False | <p>JSON string containing a version identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| kind | string | False | <p>JSON string containing a kind identifier assigned by Kubernetes.</p> <ul style="list-style-type: none"> • This string is internally validated against Astra /apiResources |
| namespaces | array[string] | False | <p>JSON array of JSON strings describing namespaces to include or exclude resources from. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| names | array[string] | False | <p>JSON array of JSON strings describing Kubernetes resource names to include or exclude from the selective restore. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| labelSelectors | array[string] | False | <p>JSON array of JSON strings describing Kubernetes label selectors used to include or exclude resources from the selective restore. Each element in this array is a Kubernetes label selector string and follows the same grammar for those values. Examples:</p> <ul style="list-style-type: none"> ["app=mysql"] — Select all resources that have a label whose name is app and whose value is mysql More examples can be found here: https://kubernetes.io/docs/concepts/overview/working-with-objects/labels/#set-based-requirement |

restoreFilter

JSON object containing a list of filters that describe which resources are included or excluded from a selective restore operation. Include and exclude are mutually exclusive, and a selective restore can only use one kind of filter.

| Name | Type | Required | Description |
|---------------------------|--------|----------|---|
| resourceSelectionCriteria | string | True | JSON string containing a value that indicates how resource filters select resources. Valid values are include or exclude. |

| Name | Type | Required | Description |
|------|-------------|----------|--|
| GVKN | array[GVKN] | True | JSON array of JSON objects that describe resources to filter during a selective restore. A resource matches a single GVKN filter element if all of the specified filter fields match the corresponding resource field. Filter fields that are arrays (for example, namespaces and names) match if any of its elements match the corresponding resource field. The labelSelectors field requires that all selectors match. A resource that matches any filter in the array of GVKN filter objects is included or excluded from the restore based on the resourceSelectionCriteria value. Specifying empty GVKN objects results in a validation error. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an app

DELETE /accounts/{account_id}/k8s/v2/apps/{app_id}

Removes the specified App API resource.

Side Effects

- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer appear under /apps.
- First, the application goes into the deleting state and then deletes all associated schedules, snapshots, backups, and the stored application state.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|--------|--------|------|----------|----------------------------------|
| app_id | string | path | True | ID of the app collection to list |

Response

Status: 204, Indicates if the app resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/91",
  "title": "Application not deleted",
  "detail": "The application wasn't deleted because of an internal
server issue.",
  "status": "500"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/112",
  "title": "Application not ready",
  "detail": "The application is currently unavailable.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

AppMirror

AppMirror overview

The AppMirror API enables management of AppMirror relationships.

Create a new AppMirror resource

POST /accounts/{account_id}/k8s/v1/appMirrors

Indicates the desired values for the AppMirror API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |

Request Body

Indicates the desired values for the AppMirror API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appMirror" |

| Name | Type | Required | Description |
|----------------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|-----------------------|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

Response

Status: 201, Returns the newly created appMirror resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-appMirror" |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| state | string | True | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> "established" - The relationship is created. "failedOver" - Failover of the application to the destination cluster has completed. "deleted" - The relationship was successfully cleaned up and deleted. |
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> "establishing": "established", "deleted" "established": "failedOver", "deleted" "failingOver": "failedOver", "deleted" "failedOver": "established", "deleted" "deleting": "deleted" "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthState | string | True | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateTransitions | array[type_astra_stateTransition] | True | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "state": "establishing",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ]
}
```

```

],
"stateDesired": "established",
"stateAllowed": [
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/3",
    "title": "AppMirror is being established",
    "detail": "The AppMirror relationship is in the process of being
established."
  }
],
"healthState": "warning",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
]

```

```

    }
  ],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/4",
      "title": "AppMirror not yet established",
      "detail": "The relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all AppMirror resources

GET /accounts/{account_id}/k8s/v1/appMirrors

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: appMirror_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appMirrors",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-appMirror",
      "version": "1.1",
      "id": "f1c98c2e-6391-42d3-8b21-3e75dac048a3",
      "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
      "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
      "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaceMapping": [
        {
          "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
          "namespaces": [
            "ns1-src",
            "ns2-src"
          ]
        },
        {
          "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
          "namespaces": [
            "ns1-dest",
            "ns2-dest"
          ]
        }
      ],
      "state": "established",
      "stateTransitions": [
        {
          "from": "establishing",
          "to": [
            "established",
            "deleting"
          ]
        },
        {
          "from": "established",
          "to": [
            "failingOver",
            "deleting"
          ]
        }
      ],
    }
  ],
}
```

```

    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/1",
      "title": "AppMirror relationship established",
      "detail": "The AppMirror relationship has been successfully
established."
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [
    {
      "from": "indeterminate",
      "to": [
        "normal",
        "warning",
        "critical"
      ]
    },
    {
      "from": "normal",

```

```

        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ]
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ]
    }
],
"healthStateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/2",
        "title": "SnapMirror syncing successfully",
        "detail": "All SnapMirror relationships are synchronizing as
expected."
    }
],
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
{
    "type": "application/astra-appMirror",
    "version": "1.1",
    "id": "114633f0-5b59-4bd7-adce-a9ba4423a1bd",
    "sourceAppID": "eaf8b854-211d-460a-ac18-d093d8e2ac70",
    "sourceClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "destinationAppID": "e829c5e0-750f-44ad-a684-ae85be2c2bb",
    "destinationClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",

```



```

"namespaceMapping": [
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "app-namespace"
    ],
    "role": "source"
  },
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "destination-app-namespace"
    ],
    "role": "destination"
  }
],
"storageClasses": [
  {
    "storageClassName": "destination-sc",
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "role": "destination"
  }
],
"state": "established",
"stateTransitions": [
  {
    "from": "establishing",
    "to": [
      "established",
      "deleting"
    ]
  },
  {
    "from": "established",
    "to": [
      "failingOver",
      "deleting"
    ]
  },
  {
    "from": "failingOver",
    "to": [
      "failedOver",
      "deleting"
    ]
  }
],

```

```

    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [],
  "transferState": "idle",
  "transferStateTransitions": [
    {
      "from": "transferring",
      "to": [
        "idle"
      ]
    },
    {
      "from": "idle",
      "to": [
        "transferring"
      ]
    }
  ],
  "transferStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",
      "title": "Snapshot replication completed",
      "detail": "A snapshot was replicated to the destination.",
      "additionalDetails": {
        "completionTime": "2023-07-06T22:46:39Z",
        "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
        "startTime": "2023-07-06T22:46:08Z"
      }
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",

```

```

    "title": "Snapshot replication completed",
    "detail": "A snapshot was replicated to the destination.",
    "additionalDetails": {
      "completionTime": "2023-07-06T22:46:39Z",
      "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
      "startTime": "2023-07-06T22:46:08Z"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2023-07-06T22:45:24Z",
    "modificationTimestamp": "2023-07-06T22:45:24Z",
    "createdBy": "cc420827-f968-4da7-9e72-df8a0fd52f94"
  }
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

appMirror_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|-------------------------|----------|---|
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|-------|--------|----------|--|
| state | string | True | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none">• "establishing" - The relationship is being created.• "established" - The relationship is created.• "failingOver" - Failover of the application to the destination cluster is in progress.• "failedOver" - Failover of the application to the destination cluster has completed.• "deleting" - Resources created by the relationship are being cleaned up.• "deleted" - The relationship was cleaned up and deleted. |

| Name | Type | Required | Description |
|------------------|-----------------------------------|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| healthState | string | True | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthStateTransitions | array[type_astra_stateTransition] | True | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an AppMirror resource

GET /accounts/{account_id}/k8s/v1/appMirrors/{appMirror_id}

Returns the stored AppMirror API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| appMirror_id | string | path | True | ID of the appMirror collection to list |

Response

Status: 200, Returns the stored AppMirror API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| sourceAppID | string | True | <p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | <p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|---|----------|--|
| destinationClusterID | string | True | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| state | string | True | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthState | string | True | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateTransitions | array[type_astra_stateTransition] | True | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "namespaceMapping": [
    {
      "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "namespaces": [
        "ns1-src",
        "ns2-src"
      ]
    },
    {
      "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaces": [
        "ns1-dest",
        "ns2-dest"
      ]
    }
  ],
  "state": "established",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",

```

```

        "deleting"
    ]
},
{
    "from": "failedOver",
    "to": [
        "establishing",
        "deleting"
    ]
},
{
    "from": "deleting",
    "to": [
        "deleted"
    ]
}
],
"stateDesired": "established",
"stateAllowed": [
    "failedOver",
    "deleted"
],
"stateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/1",
        "title": "AppMirror relationship established",
        "detail": "The AppMirror relationship has been successfully
established."
    }
],
"healthState": "normal",
"healthStateTransitions": [
    {
        "from": "indeterminate",
        "to": [
            "normal",
            "warning",
            "critical"
        ]
    },
    {
        "from": "normal",
        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    }
]

```

```

    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
],
"healthStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an AppMirror resource

PUT /accounts/{account_id}/k8s/v1/appMirrors/{appMirror_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Various side effects based on desiredState.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| appMirror_id | string | path | True | ID of the appMirror collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Various side effects based on desiredState.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| sourceAppID | string | False | <p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | False | <p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|---|----------|--|
| destinationClusterID | string | False | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| state | string | False | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |

| Name | Type | Required | Description |
|--------------|---|----------|--|
| stateDesired | string | False | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthState | string | False | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthStateDetails | array[type_astra_stateDetail] | False | Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "stateDesired": "failedOver"
}
```

Response

Status: 204, Indicates if the appMirror resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an AppMirror resource

DELETE /accounts/{account_id}/k8s/v1/appMirrors/{appMirror_id}

Removes the specified AppMirror API resource. Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the AppMirror API resource will be removed from both the source and destination applications.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| appMirror_id | string | path | True | ID of the appMirror collection to list |

Response

```
Status: 204, Indicates if the appMirror resource was deleted.
```

Response

```
Status: 401, Unauthorized
```

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new AppMirror resource for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors

Indicates the desired values for the AppMirror API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |

Request Body

Indicates the desired values for the AppMirror API resource to be created.

| Name | Type | Required | Description |
|----------------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|-----------------------|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

Response

Status: 201, Returns the newly created appMirror resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-appMirror" |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| state | string | True | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthState | string | True | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateTransitions | array[type_astra_stateTransition] | True | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "state": "establishing",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ]
}
```



```

],
"stateDesired": "established",
"stateAllowed": [
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/3",
    "title": "AppMirror is being established",
    "detail": "The AppMirror relationship is in the process of being
established."
  }
],
"healthState": "warning",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "indeterminate",
      "warning",
      "critical"
    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
]

```

```

    }
  ],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/4",
      "title": "AppMirror not yet established",
      "detail": "The relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the AppMirror resources for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: appMirror_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appMirrors",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-appMirror",
      "version": "1.1",
      "id": "f1c98c2e-6391-42d3-8b21-3e75dac048a3",
      "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
      "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
      "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaceMapping": [
        {
          "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
          "namespaces": [
            "ns1-src",
            "ns2-src"
          ]
        },
        {
          "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
          "namespaces": [
            "ns1-dest",
            "ns2-dest"
          ]
        }
      ],
      "state": "established",
      "stateTransitions": [
        {
          "from": "establishing",
          "to": [
            "established",
            "deleting"
          ]
        },
        {
          "from": "established",
          "to": [
            "failingOver",
            "deleting"
          ]
        }
      ],
    }
  ],
}
```

```

    {
      "from": "failingOver",
      "to": [
        "failedOver",
        "deleting"
      ]
    },
    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    },
    {
      "from": "deleting",
      "to": [
        "deleted"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/1",
      "title": "AppMirror relationship established",
      "detail": "The AppMirror relationship has been successfully
established."
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [
    {
      "from": "indeterminate",
      "to": [
        "normal",
        "warning",
        "critical"
      ]
    }
  ],
  {
    "from": "normal",

```

```

        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ]
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ]
    }
],
"healthStateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/2",
        "title": "SnapMirror syncing successfully",
        "detail": "All SnapMirror relationships are synchronizing as
expected."
    }
],
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
{
    "type": "application/astra-appMirror",
    "version": "1.1",
    "id": "114633f0-5b59-4bd7-adce-a9ba4423a1bd",
    "sourceAppID": "eaf8b854-211d-460a-ac18-d093d8e2ac70",
    "sourceClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "destinationAppID": "e829c5e0-750f-44ad-a684-ae85be2c2bb",
    "destinationClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",

```

```
"namespaceMapping": [
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "app-namespace"
    ],
    "role": "source"
  },
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "destination-app-namespace"
    ],
    "role": "destination"
  }
],
"storageClasses": [
  {
    "storageClassName": "destination-sc",
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "role": "destination"
  }
],
"state": "established",
"stateTransitions": [
  {
    "from": "establishing",
    "to": [
      "established",
      "deleting"
    ]
  },
  {
    "from": "established",
    "to": [
      "failingOver",
      "deleting"
    ]
  },
  {
    "from": "failingOver",
    "to": [
      "failedOver",
      "deleting"
    ]
  }
],
```

```

    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [],
  "transferState": "idle",
  "transferStateTransitions": [
    {
      "from": "transferring",
      "to": [
        "idle"
      ]
    },
    {
      "from": "idle",
      "to": [
        "transferring"
      ]
    }
  ],
  "transferStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",
      "title": "Snapshot replication completed",
      "detail": "A snapshot was replicated to the destination.",
      "additionalDetails": {
        "completionTime": "2023-07-06T22:46:39Z",
        "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
        "startTime": "2023-07-06T22:46:08Z"
      }
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",

```

```

    "title": "Snapshot replication completed",
    "detail": "A snapshot was replicated to the destination.",
    "additionalDetails": {
      "completionTime": "2023-07-06T22:46:39Z",
      "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
      "startTime": "2023-07-06T22:46:08Z"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2023-07-06T22:45:24Z",
    "modificationTimestamp": "2023-07-06T22:45:24Z",
    "createdBy": "cc420827-f968-4da7-9e72-df8a0fd52f94"
  }
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

appMirror_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | True | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |

| Name | Type | Required | Description |
|------------------|-----------------------------------|----------|---|
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| healthState | string | True | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthStateTransitions | array[type_astra_stateTransition] | True | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an AppMirror resource for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors/{appMirror_id}

Returns the stored AppMirror API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appMirror_id | string | path | True | ID of the appMirror collection to list |

Response

Status: 200, Returns the stored AppMirror API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| sourceAppID | string | True | <p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | <p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|---|----------|--|
| destinationClusterID | string | True | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| state | string | True | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |

| Name | Type | Required | Description |
|--------------|---|----------|--|
| stateDesired | string | True | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthState | string | True | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateTransitions | array[type_astra_stateTransition] | True | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "id": "512c8dac-b7d4-5be9-836e-ee672965866a",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "namespaceMapping": [
    {
      "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",
      "namespaces": [
        "ns1-src",
        "ns2-src"
      ]
    },
    {
      "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
      "namespaces": [
        "ns1-dest",
        "ns2-dest"
      ]
    }
  ],
  "state": "established",
  "stateTransitions": [
    {
      "from": "establishing",
      "to": [
        "established",
        "deleting"
      ]
    },
    {
      "from": "established",
      "to": [
        "failingOver",
        "deleting"
      ]
    },
    {
      "from": "failingOver",
      "to": [
        "failedOver",

```

```

        "deleting"
    ]
},
{
    "from": "failedOver",
    "to": [
        "establishing",
        "deleting"
    ]
},
{
    "from": "deleting",
    "to": [
        "deleted"
    ]
}
],
"stateDesired": "established",
"stateAllowed": [
    "failedOver",
    "deleted"
],
"stateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/1",
        "title": "AppMirror relationship established",
        "detail": "The AppMirror relationship has been successfully
established."
    }
],
"healthState": "normal",
"healthStateTransitions": [
    {
        "from": "indeterminate",
        "to": [
            "normal",
            "warning",
            "critical"
        ]
    },
    {
        "from": "normal",
        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    }
]

```

```

    ]
  },
  {
    "from": "warning",
    "to": [
      "indeterminate",
      "normal",
      "critical"
    ]
  },
  {
    "from": "critical",
    "to": [
      "indeterminate",
      "normal",
      "warning"
    ]
  }
],
"healthStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an AppMirror resource for an app

PUT /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors/{appMirror_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Various side effects based on desiredState.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| appMirror_id | string | path | True | ID of the appMirror collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Various side effects based on desiredState.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appMirror" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| sourceAppID | string | False | <p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | False | <p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationAppID | string | False | <p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------------|---|----------|--|
| destinationClusterID | string | False | <p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| namespaceMapping | array[namespaceMapping] | False | <p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|----------------|---|----------|---|
| storageClasses | array[storageClasses] | False | <p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| state | string | False | <p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted. |
| stateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted": |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateDesired | string | False | <p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted. |
| stateAllowed | array[string] | False | <p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted" |
| stateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|--------------------------|---|----------|---|
| transferState | string | False | <p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress. |
| transferStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring" |
| transferStateDetails | array[type_astra_stateDetail] | False | <p>Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| healthState | string | False | <p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateTransitions | array[type_astra_stateTransition] | False | <p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning" |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| healthStateDetails | array[type_astra_stateDetail] | False | Additional details about the current state including why the current state was reached. If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "stateDesired": "failedOver"
}
```

Response

Status: 204, Indicates if the appMirror resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

| Name | Type | Required | Description |
|------------|---------------|----------|---|
| clusterID | string | False | Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| namespaces | array[string] | False | List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema |
| role | string | False | The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination" |

storageClasses

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| clusterID | string | False | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none"> • "source" • "destination" |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an AppMirror resource for an app

DELETE /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors/{appMirror_id}

Removes the specified AppMirror API resource. Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the AppMirror API resource will be removed from both the source and destination applications.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appMirror_id | string | path | True | ID of the appMirror collection to list |

Response

Status: 204, Indicates if the appMirror resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Application Asset

Application Asset overview

The Application Asset API provides access to internal collections of state information used to manage applications.

List the application assets for an application backup

GET /accounts/{account_id}/topology/v1/appBackups/{appBackup_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| appBackup_id | string | path | True | ID of the containing appBackup resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: assetType,asset Name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: appAsset_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appAsset_1.1_get_response_body

| Name | Type | Required | Description |
|-------------------|---------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| assetType | string | True | JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| creationTimestamp | string | True | JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |

| Name | Type | Required | Description |
|-----------|---------------|----------|--|
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> • Minimum items: 0 |
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application asset from an application backup

GET

/accounts/{account_id}/topology/v1/appBackups/{appBackup_id}/appAssets/{appAsset_id}

Returns the stored Application Asset API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| appBackup_id | string | path | True | ID of the containing appBackup resource |
| appAsset_id | string | path | True | ID of the appAsset collection to list |

Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|---------------|----------|--|
| assetType | string | True | <p>JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| creationTimestamp | string | True | <p>JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | <p>JSON string containing an identifier assigned by Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|-----------|---------------------|----------|---|
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-.]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the application assets for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/apps/{app_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: assetType,asset Name |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: appAsset_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appAsset_1.1_get_response_body

| Name | Type | Required | Description |
|-------------------|---------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| assetType | string | True | JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| creationTimestamp | string | True | JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |

| Name | Type | Required | Description |
|-----------|---------------|----------|--|
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> • Minimum items: 0 |
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application asset for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/apps/{app_id}/appAssets/{appAsset_id}

Returns the stored Application Asset API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| app_id | string | path | True | ID of the containing app resource |
| appAsset_id | string | path | True | ID of the appAsset collection to list |

Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|---------------------------------|----------|--|
| assetType | string | True | <p>JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| creationTimestamp | string | True | <p>JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | <p>JSON string containing an identifier assigned by Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|-----------|---------------------|----------|---|
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^[a-z0-9A-Z_-]{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the application assets for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: assetType,asset Name |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: appAsset_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appAsset_1.1_get_response_body

| Name | Type | Required | Description |
|-------------------|---------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| assetType | string | True | JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| creationTimestamp | string | True | JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |

| Name | Type | Required | Description |
|-----------|---------------|----------|--|
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> • Minimum items: 0 |
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application asset for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appAssets/{appAsset_id}

Returns the stored Application Asset API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appAsset_id | string | path | True | ID of the appAsset collection to list |

Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|---------------|----------|--|
| assetType | string | True | <p>JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| creationTimestamp | string | True | <p>JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | <p>JSON string containing an identifier assigned by Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|-----------|---------------------|----------|---|
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-.]{1,63})\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^[a-z0-9A-Z_-.]{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the application assets from an application backup for an app

GET

/accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups/{appBackup_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| appBackup_id | string | path | True | ID of the containing appBackup resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: assetType,asset Name |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: appAsset_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appAsset_1.1_get_response_body

| Name | Type | Required | Description |
|-------------------|---------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| assetType | string | True | JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| creationTimestamp | string | True | JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |

| Name | Type | Required | Description |
|-----------|---------------|----------|--|
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> • Minimum items: 0 |
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application asset from an application backup for an app

GET

/accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups/{appBackup_id}/appAssets/{appAsset_id}

Returns the stored Application Asset API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appBackup_id | string | path | True | ID of the containing appBackup resource |
| appAsset_id | string | path | True | ID of the appAsset collection to list |

Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|---------------------------------|----------|--|
| assetType | string | True | <p>JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| creationTimestamp | string | True | <p>JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | <p>JSON string containing an identifier assigned by Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|-----------|---------------------|----------|---|
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List application assets for an application snapshot

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps/{appSnap_id}/appAssets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appSnap_id | string | path | True | ID of the containing appSnap resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>assetType,assetName</code> |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: appAsset_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appAssets",
  "version": "1.1",
  "items": [
    [
      "Pod",
      "mediawiki-69c6fcf864-2wx6l"
    ],
    [
      "ReplicaSet",
      "mediawiki-69c6fcf864"
    ],
    [
      "Service",
      "mediawiki"
    ],
    [
      "Deployment",
      "mediawiki"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|--|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appAsset_1.1_get_response_body

| Name | Type | Required | Description |
|-------------------|---------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| assetType | string | True | JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| creationTimestamp | string | True | JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are: <ul style="list-style-type: none"> Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |

| Name | Type | Required | Description |
|-----------|---------------|----------|--|
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | JSON string containing an identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty. <ul style="list-style-type: none"> • Minimum items: 0 |
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application asset for an application snapshot and app

GET

/accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps/{appSnap_id}/appAssets/{appAsset_id}

Returns the stored Application Asset API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| appSnap_id | string | path | True | ID of the containing appSnap resource |
| appAsset_id | string | path | True | ID of the appAsset collection to list |

Response

Status: 200, Returns the stored Application Asset API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-appAsset" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|---------------------------------|----------|--|
| assetType | string | True | <p>JSON string containing a value indicating what type of asset is being described as obtained from Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| creationTimestamp | string | True | <p>JSON string containing a timestamp indicating when the Kubernetes metadata was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| GVK | GVK | True | JSON object containing a Kubernetes group/version/kind. |
| resource | type_json | False | JSON object containing the entire content of the Kubernetes resource definition. |
| assetID | string | True | <p>JSON string containing an identifier assigned by Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing a Kubernetes labels associated with the asset. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|-----------|---------------------|----------|---|
| assetName | string | True | JSON string containing a name assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| namespace | string | False | JSON string containing a namespace assigned by Kubernetes. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-appAsset",
  "version": "1.1",
  "id": "6415e851-b820-553b-9432-ebd057d1917d",
  "assetType": "Pod",
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "GVK": {
    "group": "apps",
    "kind": "Pod",
    "version": "v1"
  },
  "assetID": "93ec0c61-d993-4aa1-bb08-f4dcdd5e97f6",
  "labels": [
    {
      "name": "app",
      "value": "mediawiki"
    },
    {
      "name": "pod-template-hash",
      "value": "69c6fcf864"
    }
  ],
  "assetName": "mediawiki-69c6fcf864-2wx61",
  "namespace": "wiki",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

GVK

JSON object containing a Kubernetes group/version/kind.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| group | string | False | JSON string containing a group identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| kind | string | False | JSON string containing a kind identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| version | string | False | JSON string containing a version identifier assigned by Kubernetes. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

type_json

JSON object containing the entire content of the Kubernetes resource definition.

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^([\S.]{1,253}V)?([a-z0-9A-Z_-.]){1,63}\$"</code> |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^{[a-z0-9A-Z_-.]}{1,63}\$"</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Application Backup

Application Backup overview

The Application Backup API enables a user to create and view backups of a managed application.

List all application backups

GET /accounts/{account_id}/topology/v1/appBackups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name,state</code> |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: appBackup_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appBackups",
  "version": "1.2",
  "items": [
    [
      "5cb608f9-571b-492e-a520-5bfb900a9b9c",
      "app-name-245",
      "pending"
    ],
    [
      "f8faa690-7e09-48a4-b33c-7965712acd0c",
      "app-name-244",
      "completed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/96",
  "title": "Backups not listed",
  "detail": "The backups didn't list because of an internal server issue.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appBackup_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-appBackup" |

| Name | Type | Required | Description |
|----------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| bucketID | string | True | JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the backup. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------------------|--------------------------------|----------|---|
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDe tail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| backupCreationTimestamp | string | False | <p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| totalBytes | number | False | <p>JSON number containing the total number of bytes in the backup.</p> |
| bytesDone | number | False | <p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p> |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| percentDone | number | False | JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100". |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application backup

GET /accounts/{account_id}/topology/v1/appBackups/{appBackup_id}

Returns the stored Application Backup API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| appBackup_id | string | path | True | ID of the appBackup collection to list |

Response

Status: 200, Returns the stored Application Backup API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appBackup" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| name | string | True | <p>JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| bucketID | string | True | <p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| snapshotID | string | False | <p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|--------|----------|--|
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | True | <p>JSON string containing a value indicating the operational state of the backup. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined |

| Name | Type | Required | Description |
|-------------------------|-------------------------------|----------|--|
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed".</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| backupCreationTimestamp | string | False | <p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| totalBytes | number | False | <p>JSON number containing the total number of bytes in the backup.</p> |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| bytesDone | number | False | JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field. |
| percentDone | number | False | JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100". |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "id": "bab39d53-2d04-5297-b92e-58df89a2117b",
  "name": "app-name-245",
  "bucketID": "0afbe357-a717-4c7a-8b3d-d0368959c8de",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/95",
  "title": "Backup not retrieved",
  "detail": "The backup wasn't retrieved because of an internal server issue.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete an application backup

DELETE /accounts/{account_id}/topology/v1/appBackups/{appBackup_id}

Removes the specified Application Backup API resource. Backups in progress will be canceled, and then deleted.

Side Effects

- If a backup is complete, the backup data is deleted.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| appBackup_id | string | path | True | ID of the appBackup collection to list |

Response

Status: 204, Indicates if the appBackup resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/97",
  "title": "Backup not deleted",
  "detail": "The backup wasn't deleted because of an internal server issue.",
  "status": "500"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/128",
  "title": "Backup cancellation not allowed",
  "detail": "A pending backup can't be canceled.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new application backup for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups

Indicates the desired values for the Application Backup API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |

Request Body

Indicates the desired values for the Application Backup API resource to be created.

| Name | Type | Required | Description |
|----------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "application/astra-appBackup" |
| version | string | True | <p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| name | string | False | <p>JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| bucketID | string | False | <p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|-------------------------------------|----------|---|
| snapshotID | string | False | <p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example request

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "name": "app-name-245"
}
```

Response

Status: 201, Returns the newly created appBackup resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-appBackup" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| bucketID | string | True | <p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| snapshotID | string | False | <p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the backup. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------------------|-------------------------------|----------|---|
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| backupCreationTimestamp | string | False | <p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| totalBytes | number | False | <p>JSON number containing the total number of bytes in the backup.</p> |
| bytesDone | number | False | <p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p> |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| percentDone | number | False | JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100". |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "id": "bab39d53-2d04-5297-b92e-58df89a2117b",
  "name": "app-name-245",
  "bucketID": "0afbe357-a717-4c7a-8b3d-d0368959c8de",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

```
Status: 401, Unauthorized
```

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/94",
  "title": "Backup not created",
  "detail": "The backup wasn't created because of an internal server issue.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the application backups for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name,state</code> |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: appBackup_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appBackups",
  "version": "1.2",
  "items": [
    [
      "5cb608f9-571b-492e-a520-5bfb900a9b9c",
      "app-name-245",
      "pending"
    ],
    [
      "f8faa690-7e09-48a4-b33c-7965712acd0c",
      "app-name-244",
      "completed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/96",
  "title": "Backups not listed",
  "detail": "The backups didn't list because of an internal server issue.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appBackup_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-appBackup" |

| Name | Type | Required | Description |
|----------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| bucketID | string | True | JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the backup. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------------------|--------------------------------|----------|---|
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDe tail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| backupCreationTimestamp | string | False | <p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| totalBytes | number | False | <p>JSON number containing the total number of bytes in the backup.</p> |
| bytesDone | number | False | <p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p> |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| percentDone | number | False | JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100". |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application backup for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups/{appBackup_id}

Returns the stored Application Backup API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| appBackup_id | string | path | True | ID of the appBackup collection to list |

Response

Status: 200, Returns the stored Application Backup API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-appBackup" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| id | string | True | <p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | <p>JSON string containing a user-specified name for the backup. If not specified, or when backups are initiated by a schedule, the system assigns a name for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| bucketID | string | True | <p>JSON string containing an optional bucket ID that indicates where the backup will be stored on create. If not specified, a system-selected bucket is used. If no buckets are available, an error will be returned on create. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| snapshotID | string | False | <p>JSON string containing the snapshot that was used to create the backup. To create the backup, a snapshot ID associated with the application being backed up can be specified on create. If not specified, a new snapshot will be created for the backup. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the backup was triggered by a schedule and which schedule triggered the backup. Only present for backups initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the backup. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application backup is scheduled for discovery • "discovering" - The application backup is in the process of being discovered • "running" - The application backup is running normally • "completed" - The application backup has completed successfully • "failed" - The application backup is in a permanent failure state • "removed" - The application backup is not currently accessible • "unknown" - The application backup state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application backup is unable to transition to "running", or why it has transitioned to "failed" or "removed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------------------|-------------------------------|----------|---|
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hooks run as part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| backupCreationTimestamp | string | False | <p>JSON string containing a timestamp indicating when the backup was taken. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| totalBytes | number | False | <p>JSON number containing the total number of bytes in the backup.</p> |
| bytesDone | number | False | <p>JSON number containing the number of bytes backed up for a running backup. When the backup is completed, it matches with the totalBytes field.</p> |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|--|
| percentDone | number | False | JSON number containing the percentage complete for a running backup. When the backup is completed, it is set to "100". |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-appBackup",
  "version": "1.2",
  "id": "bab39d53-2d04-5297-b92e-58df89a2117b",
  "name": "app-name-245",
  "bucketID": "0afbe357-a717-4c7a-8b3d-d0368959c8de",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

```
Status: 401, Unauthorized
```

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/95",
  "title": "Backup not retrieved",
  "detail": "The backup wasn't retrieved because of an internal server issue.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete an application backup for an app

DELETE /accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups/{appBackup_id}

Removes the specified Application Backup API resource. Backups in progress will be canceled, and then deleted.

Side Effects

- If a backup is complete, the backup data is deleted.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appBackup_id | string | path | True | ID of the appBackup collection to list |

Response

Status: 204, Indicates if the appBackup resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/97",
  "title": "Backup not deleted",
  "detail": "The backup wasn't deleted because of an internal server issue.",
  "status": "500"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/128",
  "title": "Backup cancellation not allowed",
  "detail": "A pending backup can't be canceled.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Application Snapshot

Application Snapshot overview

The Application Snapshot API enables a user to create and view snapshots of a managed application.

Create a new application snapshot for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps

Indicates the desired values for the Application Snapshot API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|--------|--------|------|----------|-----------------------------------|
| app_id | string | path | True | ID of the containing app resource |

Request Body

Indicates the desired values for the Application Snapshot API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-appSnap" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| name | string | False | JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

Example request

```
{
  "type": "application/astra-appSnap",
  "version": "1.2",
  "name": "app-name-245"
}
```

Response

Status: 201, Returns the newly created appSnap resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "application/astra-appSnap" |
| version | string | True | <p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| id | string | True | <p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | <p>JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and specifies which schedule triggered the snapshot. Only present for snapshots initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| snapshotAppAsset | string | False | <p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application snapshot is scheduled for discovery • "discovering" - The application snapshot is in the process of being discovered • "running" - The application snapshot is running normally • "completed" - The application snapshot has completed • "failed" - The application snapshot is in a permanent failure state • "removed" - The application snapshot is not currently accessible • "unknown" - The application snapshot state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|------------------|-------------------------------|----------|---|
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-appSnap",
  "version": "1.2",
  "id": "4f56a1df-8f47-541a-bd81-77260053a2f6",
  "name": "app-name-245",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the application snapshots for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name,state</code> |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: appSnap_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-appSnaps",
  "version": "1.2",
  "items": [
    [
      "2b6dafc3-2172-4431-a482-6306b2703130",
      "app-name-245",
      "pending"
    ],
    [
      "6fd9b31a-3924-4c9a-878b-175fa9538b8c",
      "app-name-244",
      "completed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

appSnap_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-appSnap" |

| Name | Type | Required | Description |
|------------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| scheduleID | string | False | JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and specifies which schedule triggered the snapshot. Only present for snapshots initiated by a schedule. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| snapshotAppAsset | string | False | <p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | True | <p>JSON string containing a value indicating the operational state of the snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application snapshot is scheduled for discovery • "discovering" - The application snapshot is in the process of being discovered • "running" - The application snapshot is running normally • "completed" - The application snapshot has completed • "failed" - The application snapshot is in a permanent failure state • "removed" - The application snapshot is not currently accessible • "unknown" - The application snapshot state cannot be determined |

| Name | Type | Required | Description |
|------------------|--------------------------------|----------|---|
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDe tail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema if not specified on create, a metadata object will be created with no labels. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an application snapshot

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps/{appSnap_id}

Returns the stored Application Snapshot API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| appSnap_id | string | path | True | ID of the appSnap collection to list |

Response

Status: 200, Returns the stored Application Snapshot API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-appSnap" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| name | string | True | <p>JSON string containing a user-specified name for the snapshot. If not specified, or when snapshots are initiated by a schedule, the system assigns a name for the snapshot. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Conforms to the DNS 1123 Label Schema |
| scheduleID | string | False | <p>JSON string containing an optional schedule ID that indicates that the snapshot was triggered by a schedule and specifies which schedule triggered the snapshot. Only present for snapshots initiated by a schedule. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| snapshotAppAsset | string | False | <p>JSON string containing the ID of the application asset corresponding to the snapshot. This field will be returned when the state of the application snapshot is "completed". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The application snapshot is scheduled for discovery • "discovering" - The application snapshot is in the process of being discovered • "running" - The application snapshot is running normally • "completed" - The application snapshot has completed • "failed" - The application snapshot is in a permanent failure state • "removed" - The application snapshot is not currently accessible • "unknown" - The application snapshot state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why an application snapshot is unable to transition to "running", or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|------------------|-------------------------------|----------|---|
| hookState | string | False | <p>JSON string containing a value indicating the state of any execution hook or hooks running as a part of a snapshot. Defined values are:</p> <ul style="list-style-type: none"> • "failed" - One or more execution hooks have failed • "success" - There were zero or more applicable hooks and all were successful |
| hookStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about why "hookState" transitioned into "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-appSnap",
  "version": "1.2",
  "id": "4f56a1df-8f47-541a-bd81-77260053a2f6",
  "name": "app-name-245",
  "scheduleID": "1fe83650-9b3c-41ef-bb25-a2910c19c33e",
  "state": "pending",
  "stateUnready": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete an application snapshot

DELETE /accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps/{appSnap_id}

Removes the specified Application Snapshot API resource.

Side Effects

- If a snapshot is in progress, the snapshot is cancelled.
- If a snapshot is complete, the snapshot data is deleted.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| appSnap_id | string | path | True | ID of the appSnap collection to list |

Response

Status: 204, Indicates if the appSnap resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/144",
  "title": "Backup in progress",
  "detail": "The snapshot wasn't deleted because it is currently being
  used by a backup.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Bucket

Bucket overview

The Bucket API provides access to buckets used to store application backups in Astra.

Create a new bucket

POST /accounts/{account_id}/topology/v1/buckets

Indicates the desired values for the Bucket API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates the desired values for the Bucket API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-bucket" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| name | string | False | JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none">Minimum length: 1Maximum length: 256 |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| credentialID | string | True | <p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| provider | string | True | <p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws" |
| bucketParameters | bucketParameters | True | <p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p> |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "name": "Test Bucket",
  "credentialID": "d5b3854c-38de-42c6-9269-b5c052aba76f",
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  }
}
```

Response

Status: 201, Returns the newly created bucket resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-bucket" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| name | string | True | <p>JSON string containing a user-assigned name for the bucket. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 256 |
| credentialID | string | True | <p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | True | <p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| provider | string | True | <p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws" |
| bucketParameters | bucketParameters | True | <p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```


Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

| Name | Type | Required | Description |
|------------|--------|----------|--|
| serverURL | string | True | JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 1023 |
| bucketName | string | True | JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

gcp

JSON object that provides Google Cloud protocol parameters.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| bucketName | string | True | JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

azure

JSON object that provides Azure protocol parameters.

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| storageAccount | string | True | JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| bucketName | string | True | JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

| Name | Type | Required | Description |
|-------|-------|----------|---|
| s3 | s3 | False | JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers). |
| gcp | gcp | False | JSON object that provides Google Cloud protocol parameters. |
| azure | azure | False | JSON object that provides Azure protocol parameters. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all buckets

GET /accounts/{account_id}/topology/v1/buckets

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: bucket_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-buckets",
  "version": "1.2",
  "items": [
    [
      "4c753e39-25e9-4b36-a8de-69f168aa59cd",
      "Test Bucket",
      "gcp"
    ],
    [
      "d8fd585d-6429-4c08-a308-af193a88eac7",
      "Local",
      "ontap-s3"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

| Name | Type | Required | Description |
|------------|--------|----------|--|
| serverURL | string | True | JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 1023 |
| bucketName | string | True | JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

gcp

JSON object that provides Google Cloud protocol parameters.

| Name | Type | Required | Description |
|------------|--------|----------|--|
| bucketName | string | True | JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

azure

JSON object that provides Azure protocol parameters.

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| storageAccount | string | True | JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| bucketName | string | True | JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

| Name | Type | Required | Description |
|------|------|----------|---|
| s3 | s3 | False | JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers). |
| gcp | gcp | False | JSON object that provides Google Cloud protocol parameters. |

| Name | Type | Required | Description |
|-------|-------|----------|--|
| azure | azure | False | JSON object that provides Azure protocol parameters. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

bucket_1.2_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-bucket" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 256 |
| credentialID | string | True | JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | True | JSON string containing a value indicating the operational state of the bucket. Defined values are: <ul style="list-style-type: none"> • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined |

| Name | Type | Required | Description |
|------------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| provider | string | True | <p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws" |
| bucketParameters | bucketParameters | True | <p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a bucket

GET /accounts/{account_id}/topology/v1/buckets/{bucket_id}

Returns the stored Bucket API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| bucket_id | string | path | True | ID of the bucket collection to list |

Response

Status: 200, Returns the stored Bucket API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-bucket" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| name | string | True | <p>JSON string containing a user-assigned name for the bucket. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 256 |
| credentialID | string | True | <p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | True | <p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| provider | string | True | <p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws" |
| bucketParameters | bucketParameters | True | <p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

| Name | Type | Required | Description |
|------------|--------|----------|--|
| serverURL | string | True | JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 1023 |
| bucketName | string | True | JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

gcp

JSON object that provides Google Cloud protocol parameters.

| Name | Type | Required | Description |
|------------|--------|----------|--|
| bucketName | string | True | JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

azure

JSON object that provides Azure protocol parameters.

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| storageAccount | string | True | JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| bucketName | string | True | JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

| Name | Type | Required | Description |
|------|------|----------|---|
| s3 | s3 | False | JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers). |
| gcp | gcp | False | JSON object that provides Google Cloud protocol parameters. |

| Name | Type | Required | Description |
|-------|-------|----------|--|
| azure | azure | False | JSON object that provides Azure protocol parameters. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a bucket

PUT /accounts/{account_id}/topology/v1/buckets/{bucket_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| bucket_id | string | path | True | ID of the bucket collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-bucket" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none">Minimum length: 1Maximum length: 256 |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| credentialID | string | False | <p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | False | <p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The bucket is scheduled for discovery • "available" - The bucket is available for use • "failed" - The bucket is in a permanent failure state • "removed" - The bucket is not currently accessible • "unknown" - The bucket state cannot be determined |
| stateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| provider | string | False | <p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> • "ontap-s3" • "storagegrid-s3" • "generic-s3" • "gcp" • "azure" • "aws" |
| bucketParameters | bucketParameters | False | <p>JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.</p> |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "name": "New Bucket Name"
}
```

Response

Status: 204, Indicates if the bucket resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

| Name | Type | Required | Description |
|------------|--------|----------|--|
| serverURL | string | False | JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 1023 |
| bucketName | string | False | JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

gcp

JSON object that provides Google Cloud protocol parameters.

| Name | Type | Required | Description |
|------------|--------|----------|--|
| bucketName | string | False | JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

azure

JSON object that provides Azure protocol parameters.

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| storageAccount | string | False | JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| bucketName | string | False | JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket vary per provider.

| Name | Type | Required | Description |
|------|------|----------|---|
| s3 | s3 | False | JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers). |
| gcp | gcp | False | JSON object that provides Google Cloud protocol parameters. |

| Name | Type | Required | Description |
|-------|-------|----------|--|
| azure | azure | False | JSON object that provides Azure protocol parameters. |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a bucket

DELETE /accounts/{account_id}/topology/v1/buckets/{bucket_id}

Removes the specified Bucket API resource.

Side Effects

- Internal data structures are cleaned up.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| bucket_id | string | path | True | ID of the bucket collection to list |

Response

Status: 204, Indicates if the bucket resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Certificate

Certificate overview

The Certificate App API represents admin-trusted certificates that are used for establishing outgoing connections.

Create a new certificate

POST /accounts/{account_id}/core/v1/certificates

Indicates the desired values for the Certificate API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates the desired values for the Certificate API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-certificate" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| certUse | string | False | JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA. |
| cert | string | True | JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| isSelfSigned | string | False | <p>JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update:</p> <ul style="list-style-type: none"> • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed. |
| trustStateDesired | string | False | <p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTlBDRVJUSUZJQ0FURSU0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURSU0tLS0t"
}
```

Response

Status: 201, Returns the newly created certificate resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-certificate" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| certUse | string | True | JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA. |
| cert | string | True | JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| cn | string | True | JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| expiryTimestamp | string | True | <p>JSON string containing a timestamp indicating when the certificate expires. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| isSelfSigned | string | True | <p>JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update:</p> <ul style="list-style-type: none"> • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed. |

| Name | Type | Required | Description |
|-----------------------|---|----------|--|
| trustState | string | True | <p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted. |
| trustStateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| trustStateDesired | string | False | <p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. |

| Name | Type | Required | Description |
|-------------------|-------------------------------|----------|---|
| trustStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbcd4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTtIBDRVJUSUZJQ0FURStLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURStLS0t",
  "cn": "vcenter.example.com",
  "isSelfSigned": "false",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "trustState": "trusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDesired": "trusted",
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all certificates

GET /accounts/{account_id}/core/v1/certificates

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| continue | | query | False | Indicates the token to resume listing from. <p>URL examples:</p> <pre>"continue=<continue token="" from="" collection="" metadata="">"</continue></pre> <p>OpenAPI examples:</p> <pre>"<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;</pre> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> <ul style="list-style-type: none"> • example: certUse%20eq%20'rootCA' |
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> • example: id,cn,isSelfSigned |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |
| orderBy | string | query | False | Indicates the sort order of resource when listing a collection. URL examples: "orderBy=name", "orderBy=name%20desc" OpenAPI examples: "name desc" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: certificate_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-certificates",
  "version": "1.1",
  "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
      "prod.region-1.example.com",
      "true"
    ],
    [
      "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
      "prod.region-2.example.com",
      "false"
    ],
    [
      "11ceb350-1999-4b79-80a6-46a980a27856",
      "prod.example.com",
      "false"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/164",
  "title": "Requested resource in unexpected state",
  "detail": "The requested resource can't be returned because it isn't in the expected state. Wait for the conflict to be resolved and retry the request.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

certificate_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-certificate" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| certUse | string | True | JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA. |
| cert | string | True | JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are: <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| cn | string | True | JSON string containing a common name extracted from the certificate. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 511 |
| expiryTimestamp | string | True | JSON string containing a timestamp indicating when the certificate expires. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| isSelfSigned | string | True | <p>JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update:</p> <ul style="list-style-type: none"> • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed. |
| trustState | string | True | <p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted. |

| Name | Type | Required | Description |
|-----------------------|-----------------------------------|----------|--|
| trustStateTransitions | array[type_astra_stateTransition] | True | JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states. |
| trustStateDesired | string | False | JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are: <ul style="list-style-type: none"> "untrusted" - The certificate is not trusted. "trusted" - The certificate is marked as trusted. |
| trustStateDetails | array[type_astra_stateDetail] | True | JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty. <ul style="list-style-type: none"> Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a certificate

GET /accounts/{account_id}/core/v1/certificates/{certificate_id}

Returns the stored Certificate API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| certificate_id | string | path | True | ID of the certificate collection to list |

Response

Status: 200, Returns the stored Certificate API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-certificate" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| certUse | string | True | <p>JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are:</p> <ul style="list-style-type: none"> • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA. |
| cert | string | True | <p>JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| cn | string | True | <p>JSON string containing a common name extracted from the certificate. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| expiryTimestamp | string | True | <p>JSON string containing a timestamp indicating when the certificate expires. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| isSelfSigned | string | True | <p>JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update:</p> <ul style="list-style-type: none"> • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed. |
| trustState | string | True | <p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted. |

| Name | Type | Required | Description |
|-----------------------|---|----------|---|
| trustStateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| trustStateDesired | string | False | <p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. |
| trustStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "id": "a26cbcd4-2183-58ce-aa19-e37ca8b0531a",
  "certUse": "rootCA",
  "cert":
  "LS0tLS1CRUdJTtiBDRVJUSUZJQ0FURS0tLS0tCk1JSUZyVENDQTVXZ0F3MVJHbnFGbUJSSW
  RyV1kwPQotLS0tLUVORCBDRVJUSUZJQ0FURS0tLS0t",
  "cn": "vcenter.example.com",
  "expiryTimestamp": "2022-03-23T16:48:38.5233461Z",
  "isSelfSigned": "true",
  "trustState": "untrusted",
  "trustStateTransitions": [
    {
      "from": "untrusted",
      "to": [
        "trusted"
      ]
    },
    {
      "from": "trusted",
      "to": [
        "untrusted"
      ]
    }
  ],
  "trustStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/164",
  "title": "Requested resource in unexpected state",
  "detail": "The requested resource can't be returned because it isn't in the expected state. Wait for the conflict to be resolved and retry the request.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a certificate

PUT /accounts/{account_id}/core/v1/certificates/{certificate_id}

Replaces the entire stored resource with the supplied JSON request body.

Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".
- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| certificate_id | string | path | True | ID of the certificate collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body.

Side Effects

- An updated CA certificate will be updated in the trust store.
- If an existing trusted CA certificate becomes untrusted, it will be removed from the trust store.
- If a certificate body is updated ("cert" field), the "isSelfSigned" indicator must be included to indicate the state of the new certificate. If the "isSelfSigned" indicator is not included in this case, the value will be set to "false".

- If an update does not modify the certificate body ("cert" field), the "isSelfSigned" indicator is optional and the existing value will be retained if not provided.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-certificate" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| certUse | string | False | JSON string indicating the use of the certificate. If not specified, defaults to "rootCA". Defined values are: <ul style="list-style-type: none"> • "rootCA" - The certificate is a certificate authority (CA) certificate used to trust any certificate signed by that CA. • "intermediateCA" - The certificate is an intermediate CA certificate issued by a root CA. |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| cert | string | False | <p>JSON string containing a base64 encoded PKCS-11 formatted certificate (PEM). Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| cn | string | False | <p>JSON string containing a common name extracted from the certificate. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| expiryTimestamp | string | False | <p>JSON string containing a timestamp indicating when the certificate expires. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| isSelfSigned | string | False | <p>JSON string indicating whether the certificate is self-signed. If not provided on create, the value defaults to "false". On update:</p> <ul style="list-style-type: none"> • If the value is provided, that value will be used. • If the value is not provided and the "cert" field is included in the update, the value will be set to "false". • If the value is not provided and the "cert" field is not included in the update, the existing value will be retained. Defined values are: <ul style="list-style-type: none"> • "true" - The certificate is self-signed. • "false" - The certificate is not self-signed. |
| trustState | string | False | <p>JSON string containing one of a set of enumerated values indicating whether the certificate is trusted. Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. • "expired" - The certificate is expired, so is neither trusted or not trusted. |

| Name | Type | Required | Description |
|-----------------------|---|----------|---|
| trustStateTransitions | array[type_astra_stateTransition] | False | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> |
| trustStateDesired | string | False | <p>JSON string containing a value indicating whether the certificate is trusted. If not specified on create, the default value is "trusted". Defined values are:</p> <ul style="list-style-type: none"> • "untrusted" - The certificate is not trusted. • "trusted" - The certificate is marked as trusted. |
| trustStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about the trust state of the certificate. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-certificate",
  "version": "1.1",
  "trustStateDesired": "trusted"
}
```

Response

Status: 204, Indicates if the certificate resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a certificate

DELETE /accounts/{account_id}/core/v1/certificates/{certificate_id}

Removes the specified Certificate API resource.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| certificate_id | string | path | True | ID of the certificate collection to list |

Response

Status: 204, Indicates if the certificate resource was deleted.

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```


Cloud

Cloud overview

The Cloud API provides access to cloud resources to allow clients to connect to specific clouds to manage clusters and applications.

Create a new cloud

POST /accounts/{account_id}/topology/v1/clouds

Indicates the desired values for the Cloud API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates the desired values for the Cloud API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-cloud" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| name | string | True | <p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| cloudType | string | True | <p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------------|--|----------|---|
| defaultBucketID | string | False | <p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-cloud",
  "version": "1.1",
  "name": "GKE",
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31"
}

```

Response

Status: 201, Returns the newly created cloud resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cloud" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the cloud. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| cloudType | string | True | <p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| defaultBucketID | string | False | <p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "id": "1c9512c3-ec62-5ed8-8013-02fc090b9d03",
  "name": "GKE",
  "state": "discovering",
  "stateUnready": [
    "Cloud discovery in progress"
  ],
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all clouds

GET /accounts/{account_id}/topology/v1/clouds

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name,state |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: cloud_1.1_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-clouds",
  "version": "1.1",
  "items": [
    [
      "2f9e63fa-8ba8-414a-a57c-0f3042b80682",
      "gcp",
      "discovering"
    ],
    [
      "f723febe-b167-44dd-b07d-c075a8bbe4f3",
      "aws",
      "failed"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

cloud_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cloud" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | <p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| state | string | True | <p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| cloudType | string | True | <p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------------|--|----------|---|
| defaultBucketID | string | False | <p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |

| Name | Type | Required | Description |
|------------|--------|----------|-------------|
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a cloud

GET /accounts/{account_id}/topology/v1/clouds/{cloud_id}

Returns the stored Cloud API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cloud_id | string | path | True | ID of the cloud collection to list |

Response

Status: 200, Returns the stored Cloud API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-cloud" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the cloud. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| cloudType | string | True | <p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| defaultBucketID | string | False | <p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-cloud",
  "version": "1.1",
  "id": "1c9512c3-ec62-5ed8-8013-02fc090b9d03",
  "name": "GKE",
  "state": "discovering",
  "stateUnready": [
    "Cloud discovery in progress"
  ],
  "cloudType": "gcp",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a cloud

PUT /accounts/{account_id}/topology/v1/clouds/{cloud_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- An update will trigger a rediscovery of SAs and clusters.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| cloud_id | string | path | True | ID of the cloud collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- An update will trigger a rediscovery of SAs and clusters.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-cloud" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | False | <p>JSON string containing the name of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| state | string | False | <p>JSON string containing a value indicating the operational state of the cloud. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cloud is scheduled for discovery • "discovering" - The cloud is in the process of being discovered • "provisioning" - The cloud is in the process of being provisioned • "running" - The cloud is running normally • "failed" - The cloud is in a permanent failure state • "removed" - The cloud is not currently accessible • "unknown" - The cloud state cannot be determined |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a cloud is unable to transition to "running" or why it has transitioned to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| cloudType | string | False | <p>JSON string containing a value indicating the type of cloud. Defined values are:</p> <ul style="list-style-type: none"> • "gcp" - The cloud is provided by Google • "azure" - The cloud is provided by Microsoft • "aws" - The cloud is provided by Amazon • "private" - The cloud is customer managed |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the service account for the cloud. This is required for cloudType "gcp", "azure" and "aws". Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------------|--|----------|---|
| defaultBucketID | string | False | <p>JSON string containing the ID of a bucket that is to be used by default when creating backups for applications within the cloud. This is required when cloning applications across clusters and is used as a default if a bucket is not specified when creating backups and schedules. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-cloud",
  "version": "1.1"
}
```

Response

Status: 204, Indicates if the cloud resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a cloud

DELETE /accounts/{account_id}/topology/v1/clouds/{cloud_id}

Deletes the requested cloud instance and any non-managed clusters and volumes associated with that specific cloud.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| cloud_id | string | path | True | ID of the cloud collection to list |

Response

Status: 204, Indicates if the cloud resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/141",
  "title": "Action blocked: Delete cloud instance",
  "detail": "The cloud instance wasn't deleted because there are managed clusters associated with this cloud instance.",
  "status": "409"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Cluster

Cluster overview

The Cluster API represents unmanaged Kubernetes clusters.

Create a new cluster for a cloud

POST /accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters

Indicates the desired values for the Cluster API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| cloud_id | string | path | True | ID of the containing cloud resource |

Request Body

Indicates the desired values for the Cluster API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cluster" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2"• "1.3"• "1.4"• "1.5" |
| name | string | False | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |
| privateRouteID | string | False | <p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|-----------------------|--|----------|--|
| connectorCapabilities | array[string] | False | Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability. |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.5",
  "name": "GKE-22",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31"
}
```

Response

Status: 201, Returns the newly created cluster resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-cluster" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|---|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|----------------------------|---------------|----------|--|
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | True | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |
| location | string | False | <p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| isMultizonal | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | <p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | <p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p> |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p> |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.5",
  "id": "547e24b9-ddf4-558f-8397-e97e732868e4",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "31c95aba-99d9-4987-b1bb-000dfce5952c",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/64",
  "title": "Storage classes not found",
  "detail": "Storage classes from Trident weren't found.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the clusters for a cloud

GET /accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| cloud_id | string | path | True | ID of the containing cloud resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name,managedState</code> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: cluster_1.5_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-clusters",
  "version": "1.5",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

cluster_1.5_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> "full" - The clusters default storage class supports snapshots "partial" - The cluster has only storageClasses that do not support snapshots "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> "true" - Cluster is an eligible target for app data management operations. "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|--------|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |

| Name | Type | Required | Description |
|----------------------------|-------------------------------|----------|--|
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | True | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| location | string | False | JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| isMultizonal | string | False | JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are: <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | JSON string containing the location ID for private clusters. <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability. |

| Name | Type | Required | Description |
|--------------|--|----------|--|
| apiServiceID | string | False | JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a cluster for a cloud

GET /accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}

Returns the stored Cluster API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the cluster collection to list |

Response

Status: 200, Returns the stored Cluster API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-cluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|---|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|----------------------------|---------------|----------|--|
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | True | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |
| location | string | False | <p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| isMultizonal | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | <p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | <p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p> |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p> |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.5",
  "id": "547e24b9-ddf4-558f-8397-e97e732868e4",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "31c95aba-99d9-4987-b1bb-000dfce5952c",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation
on the cluster.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a cluster for a cloud

PUT /accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the cluster collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | False | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | False | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|---|----------|---|
| protectionState | string | False | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|---|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|----------------------------|---------------|----------|--|
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | False | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| cloudID | string | False | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |
| location | string | False | <p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| isMultizonal | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | <p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | <p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p> |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.5"
}
```

Response

Status: 204, Indicates if the cluster resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation on the cluster.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete a cluster for a cloud

DELETE /accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}

Removes the specified Cluster API resource.

Side Effects

- Internal data structures are cleaned up.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the cluster collection to list |

Response

Status: 204, Indicates if the cluster resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List all clusters

GET /accounts/{account_id}/topology/v1/clusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name,managedState |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|---|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%200%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: cluster_1.5_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-clusters",
  "version": "1.5",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

cluster_1.5_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> "full" - The clusters default storage class supports snapshots "partial" - The cluster has only storageClasses that do not support snapshots "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> "true" - Cluster is an eligible target for app data management operations. "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|--------|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |

| Name | Type | Required | Description |
|----------------------------|-------------------------------|----------|--|
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | True | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| location | string | False | JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| isMultizonal | string | False | JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are: <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | JSON string containing the location ID for private clusters. <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability. |

| Name | Type | Required | Description |
|--------------|--|----------|--|
| apiServiceID | string | False | JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a cluster

GET /accounts/{account_id}/topology/v1/clusters/{cluster_id}

Returns the stored Cluster API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| cluster_id | string | path | True | ID of the cluster collection to list |

Response

Status: 200, Returns the stored Cluster API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-cluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|---|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|----------------------------|---------------|----------|--|
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | True | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |
| location | string | False | <p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| isMultizonal | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | <p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | <p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p> |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p> |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-cluster",
  "version": "1.5",
  "id": "547e24b9-ddf4-558f-8397-e97e732868e4",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "31c95aba-99d9-4987-b1bb-000dfce5952c",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "6fa2f917-f730-41b8-9c15-17f531843b31",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation
on the cluster.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a cluster

PUT /accounts/{account_id}/topology/v1/clusters/{cluster_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: {{.Account}} |
| cluster_id | string | path | True | ID of the cluster collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- If the cluster is in a managed state, an update to credentialID will eventually trigger another attempt to collect the cluster.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-cluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" • "1.5" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the cluster. If not specified, the Kubernetes name of the cluster will be used. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | False | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster state cannot be determined |
| stateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| managedState | string | False | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in "running" state, is not under management, and is not eligible for management. The reasons for this ineligibility are provided in the unready key value • "unmanaged" - The cluster is in "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in "running" state and is in the process of being managed • "managed" - The cluster is in "running", "failed", or "removed" state, and is under management |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|---|
| protectionState | string | False | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The clusters default storage class supports snapshots • "partial" - The cluster has only storageClasses that do not support snapshots • "atRisk" - The default storage class of the cluster does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects which lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the ability of the cluster to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| managedStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed, or that the cluster is managed but non-fatal errors were encountered while managing the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |

| Name | Type | Required | Description |
|----------------------------|---|----------|--|
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why the state transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |

| Name | Type | Required | Description |
|----------------------------|---------------|----------|--|
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |
| inUse | string | False | <p>JSON string containing a value indicating if the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed or is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | False | <p>JSON string containing a value indicating the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| cloudID | string | False | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If privateRouteID and connectorCapabilities with at least the relay option are provided, credentialID is optional. If they are not provided, credentialID is required, otherwise, an error is generated. If credentialID and a relay capable connector is provided, an error is generated. |
| location | string | False | <p>JSON string containing a value provided by the cloud that the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| isMultizonal | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |
| privateRouteID | string | False | <p>JSON string containing the location ID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| connectorCapabilities | array[string] | False | <p>Capabilities of the connector that is associated with this cluster. Optional for backwards compatibility. If not present, proxy is the assumed capability.</p> |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) API service object. Used to uniquely identify a cluster.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-cluster",
  "version": "1.5"
}
```

Response

Status: 204, Indicates if the cluster resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/65",
  "title": "Cluster GET not performed",
  "detail": "The cluster GET call didn't perform the lookup operation on the cluster.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete a cluster

DELETE /accounts/{account_id}/topology/v1/clusters/{cluster_id}

Removes the specified Cluster API resource.

Side Effects

- Internal data structures are cleaned up.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cluster_id | string | path | True | ID of the cluster collection to list |

Response

Status: 204, Indicates if the cluster resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Cluster node

Cluster node overview

The Cluster Node API provides access to the nodes associated with a cluster.

List the cluster nodes for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/clusterNodes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the containing cluster resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: name,instanceType |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: clusterNode_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$</code>" |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[a-z0-9A-Z_-]{1,63}\$</code>" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

clusterNode_1.0_get_response_body

| Name | Type | Required | Description |
|---------|---------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-clusterNode" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| role | string | True | JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| labels | array[labels] | True | JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. <ul style="list-style-type: none"> Minimum items: 0 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| creationTime | string | True | JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| externalIP | string | True | JSON string containing a value that indicates the internal IP address for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| internalIP | string | True | JSON string containing a value that indicates the external IP address for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| zone | string | True | JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| region | string | True | JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| instanceType | string | True | JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| kernelVersion | string | True | JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| osImage | string | True | JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| numCpus | string | True | JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| memory | string | True | <p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a cluster node for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/clusterNodes/{clusterNode_id}

Returns the stored Cluster Node API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the containing cluster resource |

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| clusterNode_id | string | path | True | ID of the clusterNode collection to list |

Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-clusterNode" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| role | string | True | JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |

| Name | Type | Required | Description |
|--------------|---------------------------------|----------|--|
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| creationTime | string | True | <p>JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| externalIP | string | True | <p>JSON string containing a value that indicates the internal IP address for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| internalIP | string | True | <p>JSON string containing a value that indicates the external IP address for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| zone | string | True | <p>JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| region | string | True | JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| instanceType | string | True | JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| kernelVersion | string | True | JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| osImage | string | True | JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| numCpus | string | True | JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| memory | string | True | <p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[\\S.]{1,253}V?([a-z0-9A-Z_-.]){1,63}\$</code>" |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the cluster nodes for a cluster

GET /accounts/{account_id}/topology/v1/clusters/{cluster_id}/clusterNodes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cluster_id | string | path | True | ID of the containing cluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: name,instanceType |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: clusterNode_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$</code>" |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[a-z0-9A-Z_-]{1,63}\$</code>" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

clusterNode_1.0_get_response_body

| Name | Type | Required | Description |
|---------|---------------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-clusterNode" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| role | string | True | JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| labels | array[labels] | True | JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. <ul style="list-style-type: none"> Minimum items: 0 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| creationTime | string | True | JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| externalIP | string | True | JSON string containing a value that indicates the internal IP address for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| internalIP | string | True | JSON string containing a value that indicates the external IP address for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| zone | string | True | JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| region | string | True | JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| instanceType | string | True | JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| kernelVersion | string | True | JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| osImage | string | True | JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| numCpus | string | True | JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| memory | string | True | <p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a cluster node for a cluster

GET

/accounts/{account_id}/topology/v1/clusters/{cluster_id}/clusterNodes/{clusterNode_id}

Returns the stored Cluster Node API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cluster_id | string | path | True | ID of the containing cluster resource |
| clusterNode_id | string | path | True | ID of the clusterNode collection to list |

Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-clusterNode" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| role | string | True | JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

| Name | Type | Required | Description |
|--------------|---------------------------------|----------|--|
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| creationTime | string | True | <p>JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| externalIP | string | True | <p>JSON string containing a value that indicates the internal IP address for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| internalIP | string | True | <p>JSON string containing a value that indicates the external IP address for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| zone | string | True | <p>JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| region | string | True | JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| instanceType | string | True | JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| kernelVersion | string | True | JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| osImage | string | True | JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| numCpus | string | True | JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| memory | string | True | <p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[\\S.]{1,253}V?([a-z0-9A-Z_-.]){1,63}\$</code>" |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[a-z0-9A-Z_-.]{1,63}\$</code>" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the cluster nodes for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/clusterNodes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>name,instanceType</code> |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: clusterNode_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-clusterNodes",
  "version": "1.0",
  "items": [
    [
      "test-0",
      "e2-medium"
    ],
    [
      "test-1",
      "e2-medium"
    ],
    [
      "test-2",
      "e2-medium"
    ],
    [
      "test-3",
      "e2-micro"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$</code>" |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[a-z0-9A-Z_-]{1,63}\$</code>" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

clusterNode_1.0_get_response_body

| Name | Type | Required | Description |
|---------|---------------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-clusterNode" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| role | string | True | JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 254 |
| labels | array[labels] | True | JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty. <ul style="list-style-type: none"> Minimum items: 0 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| creationTime | string | True | JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| externalIP | string | True | JSON string containing a value that indicates the internal IP address for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| internalIP | string | True | JSON string containing a value that indicates the external IP address for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| zone | string | True | JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| region | string | True | JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| instanceType | string | True | JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| kernelVersion | string | True | JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| osImage | string | True | JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| numCpus | string | True | JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| memory | string | True | <p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a cluster node for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/clusterNodes/{clusterNode_id}

Returns the stored Cluster Node API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| clusterNode_id | string | path | True | ID of the clusterNode collection to list |

Response

Status: 200, Returns the stored Cluster Node API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-clusterNode" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value that indicates the Kubernetes name for the node. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |
| role | string | True | JSON string containing a value that indicates the Kubernetes role for the node. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 254 |

| Name | Type | Required | Description |
|--------------|---------------------------------|----------|--|
| labels | array[labels] | True | <p>JSON array of JSON objects, each containing Kubernetes labels associated with the node. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| creationTime | string | True | <p>JSON string containing an ISO 8601 timestamp that indicates when the node was created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| externalIP | string | True | <p>JSON string containing a value that indicates the internal IP address for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| internalIP | string | True | <p>JSON string containing a value that indicates the external IP address for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| zone | string | True | <p>JSON string containing a value that indicates the Kubernetes zone for the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| region | string | True | JSON string containing a value that indicates the Kubernetes region for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| instanceType | string | True | JSON string containing a value that indicates the Kubernetes instance type for the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| kernelVersion | string | True | JSON string containing a value that indicates the kernel version used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| osImage | string | True | JSON string containing a value that indicates the operating system image used by the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| numCpus | string | True | JSON string containing a value that indicates the number of CPUs assigned to the node. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| memory | string | True | <p>JSON string containing a value that indicates the amount of memory assigned to the node. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 254 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the node. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The node is running normally • "provisioning" - The node is in the process of being provisioned • "discovering" - Aspects of the node are in the process of being discovered • "pending" - The node is scheduled for discovery • "failed" - The node is in a failure state • "unknown" - The state of the node cannot be determined |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-clusterNode",
  "version": "1.0",
  "id": "5df0e09f-2c30-5b8a-b6b6-4fb4063525e4",
  "name": "test-0",
  "role": "node-role.kubernetes.io/worker",
  "labels": [],
  "creationTime": "2020-09-06T04:35:23.593845Z",
  "externalIP": "192.168.12.44",
  "internalIP": "10.0.1.1",
  "zone": "us-west1-c",
  "region": "us-east1",
  "instanceType": "e2-medium",
  "kernelVersion": "4.18.0-147.0.3.el8_1.x86_64",
  "osImage": "Red Hat Enterprise Linux CoreOS 42.81.20191203.0",
  "numCpus": "2",
  "memory": "67108864Ki",
  "state": "running",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

labels

| Name | Type | Required | Description |
|-------|--------|----------|---|
| name | string | True | JSON string containing the label name Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^([\S.]{1,253}V)?([a-z0-9A-Z_-]){1,63}\$</code>" |
| value | string | True | JSON string containing the label value Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Defined regex is: "<code>^[a-z0-9A-Z_-]{1,63}\$</code>" |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Credential

Credential overview

The Credential API provides access to securely persist objects containing sensitive information.

Create a new credential

POST `/accounts/{account_id}/core/v1/credentials`

Indicates the desired values for the Credential API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

Request Body

Indicates the desired values for the Credential API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-credential" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |

| Name | Type | Required | Description |
|------|--------|----------|--|
| name | string | True | <p>JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 127 |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| keyType | string | False | <p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> • If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource. • If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail. Defined values are: <ul style="list-style-type: none"> • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType. <p>Extended validation is performed as follows:</p> |

| Name | Type | Required | Description |
|--------------------|----------|----------|---|
| keyStore | keyStore | True | <p>JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings. |
| valid | string | False | <p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> • "true" - The credential is eligible for use. • "false" - The credential must not be used. |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by the name does not

| Name | Type | Required | Description |
|---------------------|----------------------------|----------|--|
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

- "certificate" - The credential is a PEM-

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "myCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-encoded PEM private

Response

Status: 201, Returns the newly created credential resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-credential" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 127 |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| keyType | string | False | <p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> • If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource. • If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail. Defined values are: <ul style="list-style-type: none"> • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType. <p>Extended validation is performed as follows:</p> |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| valid | string | True | <p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> • "true" - The credential is eligible for use. • "false" - The credential must not be used. |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

password.

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by the name does not

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
  "name": "myCert",
  "valid": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

keyStore, with a value containing a base64-encoded PEM

credentials and an encoded private key

exist within the keyStore, with a value containing a base64-encoded PEM private

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Service (S3) access.

Example response

- Extended validation is

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

with a value containing a base64-encoded S3 access

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are:

- Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.

Hash mapping strings to string

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all credentials

GET /accounts/{account_id}/core/v1/credentials

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| continue | | query | False | Indicates the token to resume listing from. <p>URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> • example: id,name |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |
| orderBy | string | query | False | Indicates the sort order of resource when listing a collection. URL examples: "orderBy=name", "orderBy=name%20desc" OpenAPI examples: "name desc" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: credential_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-credentials",
  "version": "1.1",
  "items": [
    [
      "f97f3441-075e-4f9b-9d1e-47f9f62a3fc4",
      "myCert"
    ],
    [
      "5e365b4d-034f-4f13-95ef-d3a7fbc0df3d",
      "kubeconfig"
    ],
    [
      "11ceb350-1999-4b79-80a6-46a980a27856",
      "password"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

credential_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-credential" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------|--------|----------|---|
| name | string | True | <p>JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user.</p> <p>Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 127 |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| keyType | string | False | <p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> • If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource. • If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail. <p>Defined values are:</p> <p>"generic" - The credential is a generic collection of data. This is</p> |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| valid | string | True | <p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> • "true" - The credential is eligible for use. • "false" - The credential must not be used. |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

must exist within the keyStore with a value containing a base64-encoded cleartext password:

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

[invalidParams](#)

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

- Extended validation is performed as follows:
- A "certificate" string must exist within the keyStore, with a value containing a base64-encoded

Retrieve a credential

GET /accounts/{account_id}/core/v1/credentials/{credential_id}

Returns the stored Credential API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| credential_id | string | path | True | ID of the credential collection to list |

Response

Status: 200, Returns the stored Credential API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-credential" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------|--------|----------|---|
| name | string | True | <p>JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

value containing a base64-encoded PEM private key.

- "s3" - Indicates the credentials are for Simple Storage Service (S3) access.
- Extended validation is performed as follows:
 - An "accessKey" string must exist within the keyStore with a value containing a base64-encoded S3 access key.
 - An "accessSecret" string must exist within the keyStore with a value containing a base64-encoded S3 access secret.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| keyType | string | False | <p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> • If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource. • If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail. Defined values are: <ul style="list-style-type: none"> • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType. <p>Extended validation is performed as follows</p> |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| valid | string | True | <p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> • "true" - The credential is eligible for use. • "false" - The credential must not be used. |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

password.

- The password cleartext must conform to the account's password policy.
- The password is stored as a hash.
- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by the name does not

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```

{
  "type": "application/astra-credential",
  "version": "1.1",
  "id": "58e26f6a-a631-5122-8e0e-7afe306675c0",
  "name": "myCert",
  "valid": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

keyStore, with a value containing a base64-encoded PEM

credentials and an encoded private key

exist within the keyStore, with a value containing a base64-encoded PEM private

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Service (S3) access.

Example response

- Extended validation is

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

with a value containing a base64-encoded S3 access

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a credential

PUT /accounts/{account_id}/core/v1/credentials/{credential_id}

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| credential_id | string | path | True | ID of the credential collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving the key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-credential" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name. When a credential is created for a user, the name will be set to the UUID of that user. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 127 |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| keyType | string | False | <p>JSON string containing an optional user-specified data validation type descriptor for the contents of the keyStore. Extended update constraints:</p> <ul style="list-style-type: none"> • If a keyType does not exist in the resource and is not specified in an update, the keyType must not continue to exist in the updated resource. • If a keyType does not exist in the resource and is specified in an update, the keyType must be added to the resource and validation must be performed. If the validation fails, the update will fail. • If a keyType exists in the resource and is not specified in an update, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified matches the existing keyType, the keyType must be preserved. • If a keyType exists in the resource and is specified in an update, and the keyType specified is different from the existing keyType, the update will fail. Defined values are: <ul style="list-style-type: none"> • "generic" - The credential is a generic collection of data. This is equivalent to not including a keyType. <p>Extended validation is performed as follows:</p> |

| Name | Type | Required | Description |
|--------------------|----------|----------|---|
| keyStore | keyStore | True | <p>JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings. |
| valid | string | False | <p>JSON string describing whether the credential is valid for use. Default value, if omitted, is "true". Defined values are:</p> <ul style="list-style-type: none"> • "true" - The credential is eligible for use. • "false" - The credential must not be used. |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

The password is stored as a hash.

- A "change" string must exist within the keyStore with a value containing a base64-encoded string "true" or "false".
- A credential of type passwordHash can only be deleted if the user ID indicated by the name does not

| Name | Type | Required | Description |
|---------------------|----------------------------|----------|--|
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the credential is no longer valid. These are used for credential rotation. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

- "certificate" - The credential is a PEM-

```
{
  "type": "application/astra-credential",
  "version": "1.1",
  "name": "oldCert",
  "keyStore": {
    "privKey": "SGkh",
    "pubKey": "VGhpcyBpcyBhbiBleGFtcGxlLg=="
  }
}
```

- Extended validation is performed as follows:
- A "privkey" string must exist within the keyStore, with a value containing a base64-encoded PEM private

Response

Status: 204, Indicates if the credential resource was updated.

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 406, Not acceptable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

keyStore with a value containing a base64-encoded S3 access

Response

Status: 500, Internal server error

string must exist

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Response

Status: 412, Precondition failed

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/38",
  "title": "Precondition not met",
  "detail": "The conditional headers aren't satisfied.",
  "status": "412"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/39",
  "title": "Credential exists",
  "detail": "A credential of this type already exists.",
  "status": "409"
}
```

Response

Status: 502, Bad gateway

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/40",
  "title": "Communication failed",
  "detail": "Communication wasn't made with downstream services.",
  "status": "502"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Definitions

See Definitions

keyStore

JSON object containing JSON strings. Each string in the keyStore represents part of the credential. The name of each string represents the credential part, and the corresponding key-value stores the value of that part of the credential in base64 format. Defined values are:

- Conforms to the base64 Encoded Data Schema No limits are placed on the lengths of the strings.

Hash mapping strings to string

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete a credential

DELETE /accounts/{account_id}/core/v1/credentials/{credential_id}

Removes the specified Credential API resource.

Side Effects

- If the credential being deleted is relied on by another resource or API, the deletion might cause unintended side effects within other APIs or the system as a whole.

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| credential_id | string | path | True | ID of the credential collection to list |

Response

Status: 204, Indicates if the credential resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Entitlement

Entitlement overview

The Entitlement API represents which features or capacities are enabled by the licenses and subscriptions active for an account.

List all entitlements

GET /accounts/{account_id}/core/v1/entitlements

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: product,entitlementType,entitlementValue,allocation |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: entitlement_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-entitlements",
  "version": "1.0",
  "items": [
    [
      "Astra SDS",
      "capacity",
      "2",
      null
    ],
    [
      "Astra Enterprise",
      "clusters",
      "100",
      "5e9fe8f7-4c54-441c-ac94-fd8451f9ca38"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

entitlement_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-entitlement" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|--|
| allocation | string | False | JSON string containing the ID of the object that the entitlement is allocated to. Only present when the entitlement is allocated. String contents not validated by the schema. |
| product | string | False | JSON string containing the product string extracted from the license or subscription. String contents not validated by the schema. |
| productVersion | string | False | JSON string containing the version string extracted from the license or subscription. String contents not validated by the schema. |
| entitlementType | string | True | JSON string containing the type of the entitlement. This is extracted from the license or subscription. String contents not validated by the schema. |
| entitlementValue | string | True | JSON string containing the capacity associated with the entitlement. String contents not validated by the schema. |
| entitlementConsumption | string | False | JSON string containing the amount of the capacity associated with the entitlement that is currently in use. String contents not validated by the schema. |

| Name | Type | Required | Description |
|---------------------|-------------------------------------|----------|---|
| sourceLicense | string | False | <p>JSON string containing the license object ID that the entitlement is sourced from. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceSubscription | string | False | <p>JSON string containing the ID of the subscription object that the entitlement is sourced from. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the entitlement becomes valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an entitlement

GET /accounts/{account_id}/core/v1/entitlements/{entitlement_id}

Returns the stored Entitlement API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| entitlement_id | string | path | True | ID of the entitlement collection to list |

Response

Status: 200, Returns the stored Entitlement API resource in the JSON response body.

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-entitlement" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| allocation | string | False | JSON string containing the ID of the object that the entitlement is allocated to. Only present when the entitlement is allocated. String contents not validated by the schema. |
| product | string | False | JSON string containing the product string extracted from the license or subscription. String contents not validated by the schema. |
| productVersion | string | False | JSON string containing the version string extracted from the license or subscription. String contents not validated by the schema. |
| entitlementType | string | True | JSON string containing the type of the entitlement. This is extracted from the license or subscription. String contents not validated by the schema. |

| Name | Type | Required | Description |
|------------------------|--------|----------|--|
| entitlementValue | string | True | JSON string containing the capacity associated with the entitlement. String contents not validated by the schema. |
| entitlementConsumption | string | False | JSON string containing the amount of the capacity associated with the entitlement that is currently in use. String contents not validated by the schema. |
| sourceLicense | string | False | JSON string containing the license object ID that the entitlement is sourced from. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceSubscription | string | False | JSON string containing the ID of the subscription object that the entitlement is sourced from. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| validFromTimestamp | string | False | JSON string containing a timestamp indicating when the entitlement becomes valid. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | False | JSON string containing a timestamp indicating when the entitlement is no longer valid. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-entitlement",
  "version": "1.0",
  "id": "8bdafc19-bde6-5f45-9808-4893c845c9f5",
  "product": "Astra SDS",
  "productVersion": "1.0",
  "entitlementType": "capacity",
  "entitlementValue": "2",
  "entitlementConsumption": "1",
  "sourceLicense": "c8aa757a-5318-489f-8134-a2a1a6956a3e",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```


Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Event

Event overview

The Event API provides access to events occurring in the system.

List all events

GET /accounts/{account_id}/core/v1/events

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,summary |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue> OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: event_1.4_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-events",
  "version": "1.4",
  "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
      "Discovering Applications in Cluster"
    ],
    [
      "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
      "Application Discovered"
    ],
    [
      "2064d1c1-4bc6-466e-9c30-b941a11be16a",
      "Application Discovery Failed"
    ],
    [
      "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
      "Application Discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

data

JSON object containing additional event-specific information.

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| ttl | number | False | JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted. |
| isAcknowledgeable | string | False | JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none">"true" - The banner is dismissible"false" - The banner is not dismissible |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

event_1.4_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-event" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" • "1.4" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| name | string | True | <p>JSON string containing a dot notation (.) hierarchical name for the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 127 • Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code> |
| sequenceCount | number | True | <p>JSON number containing a sequence count. The number is incremented by the system each time a new event is received.</p> |
| summary | string | True | <p>JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 79 |
| eventTime | string | True | <p>JSON string containing a timestamp that indicates when an event occurred. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| source | string | True | <p>JSON string containing the lowercase name of the service generating an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 19 • Defined regex is: <code>"^[a-z]*\$"</code> |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| resourceID | string | True | <p>JSON string containing the resource ID associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| additionalResourceIDs | array[string] | True | <p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events. If no additional resources are associated with the event, the array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| resourceType | string | True | <p>JSON string containing the media type of the resource associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 4 • Maximum length: 79 • Defined regex is: <code>"^application/astra-([a-zA-Z])+"</code> |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| correlationID | string | True | <p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|--|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt. • "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| class | string | True | <p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue. |
| description | string | True | <p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |
| descriptionURL | string | False | <p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| correctiveAction | string | False | <p>JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |
| correctiveActionURL | string | False | <p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| visibility | array[string] | False | <p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| destinations | array[string] | False | <p>JSON array of JSON strings, each indicating an additional destination for the event. These strings allow a service to provide hints about where an event should be routed in addition to the activity log. Optional. Defined values are:</p> <ul style="list-style-type: none"> • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event. |
| resourceURI | string | False | <p>JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| resourceCollectionURL | array[string] | False | <p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| resourceMethod | string | False | <p>JSON string containing the HTTP method invoked. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation |
| resourceMethodResult | string | False | <p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[1-5][0-9]{2}\$"</code> |
| userID | string | False | <p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------|-------------------------------------|----------|--|
| accountID | string | False | JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema |
| data | data | False | JSON object containing additional event-specific information. |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an event

GET /accounts/{account_id}/core/v1/events/{event_id}

Returns the stored Event API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| event_id | string | path | True | ID of the event collection to list |

Response

Status: 200, Returns the stored Event API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-event" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" "1.4" |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 127 • Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>" |
| sequenceCount | number | True | JSON number containing a sequence count. The number is incremented by the system each time a new event is received. |
| summary | string | True | JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 79 |
| eventTime | string | True | JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| source | string | True | <p>JSON string containing the lowercase name of the service generating an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 19 • Defined regex is: <code>"^[a-z-]*\$"</code> |
| resourceID | string | True | <p>JSON string containing the resource ID associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| additionalResourceIDs | array[string] | True | <p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. While the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events. If no additional resources are associated with the event, the array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| resourceType | string | True | <p>JSON string containing the media type of the resource associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 4 • Maximum length: 79 • Defined regex is: <code>"^application/astra-([a-zA-Z])+\$"</code> |
| correlationID | string | True | <p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|--|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault before any significant effects have been felt. • "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| class | string | True | <p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue. |
| description | string | True | <p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |
| descriptionURL | string | False | <p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| correctiveAction | string | False | <p>JSON string containing a long-form descriptive text about what corrective action must be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |

| Name | Type | Required | Description |
|---------------------|---------------|----------|--|
| correctiveActionURL | string | False | <p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| visibility | array[string] | False | <p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| destinations | array[string] | False | <p>JSON array of JSON strings, each indicating an additional destination for the event. These strings allow a service to provide hints about where an event should be routed in addition to the activity log. Optional. Defined values are:</p> <ul style="list-style-type: none"> • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event. |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| resourceURI | string | False | <p>JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| resourceCollectionURL | array[string] | False | <p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| resourceMethod | string | False | <p>JSON string containing the HTTP method invoked. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation |

| Name | Type | Required | Description |
|----------------------|-------------------------------------|----------|--|
| resourceMethodResult | string | False | <p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[1-5][0-9]{2}\$"</code> |
| userID | string | False | <p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| accountID | string | False | <p>JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| data | data | False | <p>JSON object containing additional event-specific information.</p> |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-event",
  "version": "1.4",
  "id": "c32df10b-8cfb-5a1e-9510-2a262b476009",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfef99-b7b2-46d2-9021-0a1a9a5df1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
  ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
  "severity": "warning",
  "class": "user",
  "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  ],
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

data

JSON object containing additional event-specific information.

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| ttl | number | False | JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted. |
| isAcknowledgeable | string | False | JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none">"true" - The banner is dismissible"false" - The banner is not dismissible |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Execution Hook

Execution Hook overview

The Execution Hook API enables simple management of execution hooks. Execution hooks contain additional configuration and references to a hook source resource.

Create a new execution hook

POST /accounts/{account_id}/core/v1/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |

Request Body

Indicates the desired values for the Execution Hook API resource to be created.

| Name | Type | Required | Description |
|----------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | True | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

Response

Status: 201, Returns the newly created executionHook resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2"• "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 Name must be unique across all execution hook resources. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|---------------|----------|---|
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [],
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

matchingCriteria

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |

| Name | Type | Required | Description |
|-------|--------|----------|--|
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all execution hooks

GET /accounts/{account_id}/core/v1/executionHooks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: executionHook_1.3_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.3",
  "items": [
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "4c64792c-806b-4457-938d-8e325a37c593",
      "name": "Payroll",
      "hookType": "custom",
      "matchingCriteria": [
        {
          "type": "containerImage",
          "value": "payroll"
        },
        {
          "type": "podName",
          "value": "^payroll-master"
        }
      ],
      "action": "snapshot",
      "stage": "pre",
      "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
      "arguments": [
        "freeze"
      ],
      "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
      "enabled": "true",
      "description": "Payroll production hook",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
      "name": "Order Processing",
      "hookType": "custom",
      "matchingCriteria": [
        {
```

```

        "type": "containerName",
        "value": "^order-processing$"
    },
    {
        "type": "podLabel",
        "value": "^app=master$|^app=data$"
    }
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "63f4d6fd-b7f0-4eaa-9890-0b11123604b1",
"arguments": [
    "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Order processing hook",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
}
},
{
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "NetApp Postgres Hook",
    "hookType": "netapp",
    "matchingCriteria": [
        {
            "type": "podName",
            "value": "^postgres"
        },
        {
            "type": "containerImage",
            "value": "3.8"
        }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
        "freeze"
    ],

```

```

    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  },
  {
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "Redis Hook",
    "hookType": "custom",
    "matchingCriteria": [
      {
        "type": "containerName",
        "value": "^redis-01$"
      }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
      "freeze"
    ],
    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| name | string | True | |

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

executionHook_1.3_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>Name must be unique across all execution hook resources.</p> |
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | JSON string containing a user-specified description for the hook source. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an execution hook

GET /accounts/{account_id}/core/v1/executionHooks/{executionHook_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Parameters

| Name | Type | In | Required | Description |
|------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| executionHook_id | string | path | True | ID of the executionHook collection to list |

Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-executionHook" |

| Name | Type | Required | Description |
|----------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [
    {
      "type": "podLabel",
      "value": "^env=production$"
    },
    {
      "type": "containerName",
      "value": "^payroll-master"
    }
  ],
  "matchingImages": [
    "docker.io/bitnami/payroll:3.7.8",
    "docker.io/bitnami/payroll:4.1.2"
  ],
  "matchingContainers": [
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        },
        {
          "name": "app.kubernetes.io/managed-by",
          "value": "Helm"
        }
      ],
      "containerName": "payroll-master-0",
      "containerImage": "docker.io/bitnami/payroll:3.7.8"
    },
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "name": "app.kubernetes.io/managed-by",
      "value": "Helm"
    }
  ],
  "containerName": "payroll-master-1",
  "containerImage": "docker.io/bitnami/payroll:3.7.8"
}
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
"arguments": [
  "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Payroll production hook",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| name | string | True | |

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an execution hook

PUT /accounts/{account_id}/core/v1/executionHooks/{executionHook_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Parameters

| Name | Type | In | Required | Description |
|------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| executionHook_id | string | path | True | ID of the executionHook collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| name | string | False | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | False | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | False | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | False | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | False | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "arguments": [
    "freeze",
    "10"
  ]
}
```

Response

Status: 204, Indicates if the executionHook resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an execution hook

DELETE /accounts/{account_id}/core/v1/executionHooks/{executionHook_id}

Removes the specified Execution Hook API resource.

Side Effects

- The deleted execution hook will no longer run as part of future actions.

Parameters

| Name | Type | In | Required | Description |
|------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| executionHook_id | string | path | True | ID of the executionHook collection to list |

Response

Status: 204, Indicates if the executionHook resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new execution hook for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |

Request Body

Indicates the desired values for the Execution Hook API resource to be created.

| Name | Type | Required | Description |
|----------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appId | string | True | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

Response

Status: 201, Returns the newly created executionHook resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2"• "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 Name must be unique across all execution hook resources. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|---------------|----------|---|
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [],
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

matchingCriteria

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |

| Name | Type | Required | Description |
|-------|--------|----------|--|
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the execution hooks for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: executionHook_1.3_get_r esponse_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.3",
  "items": [
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "4c64792c-806b-4457-938d-8e325a37c593",
      "name": "Payroll",
      "hookType": "custom",
      "matchingCriteria": [
        {
          "type": "containerImage",
          "value": "payroll"
        },
        {
          "type": "podName",
          "value": "^payroll-master"
        }
      ],
      "action": "snapshot",
      "stage": "pre",
      "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
      "arguments": [
        "freeze"
      ],
      "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
      "enabled": "true",
      "description": "Payroll production hook",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
      "name": "Order Processing",
      "hookType": "custom",
      "matchingCriteria": [
        {
```

```

        "type": "containerName",
        "value": "^order-processing$"
    },
    {
        "type": "podLabel",
        "value": "^app=master$|^app=data$"
    }
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "63f4d6fd-b7f0-4eaa-9890-0b11123604b1",
"arguments": [
    "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Order processing hook",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
}
},
{
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "NetApp Postgres Hook",
    "hookType": "netapp",
    "matchingCriteria": [
        {
            "type": "podName",
            "value": "^postgres"
        },
        {
            "type": "containerImage",
            "value": "3.8"
        }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
        "freeze"
    ],

```

```

    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  },
  {
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "Redis Hook",
    "hookType": "custom",
    "matchingCriteria": [
      {
        "type": "containerName",
        "value": "^redis-01$"
      }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
      "freeze"
    ],
    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| name | string | True | |

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

executionHook_1.3_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>Name must be unique across all execution hook resources.</p> |
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | JSON string containing a user-specified description for the hook source. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an execution hook for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks/{executionHook_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Parameters

| Name | Type | In | Required | Description |
|------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| executionHook_id | string | path | True | ID of the executionHook collection to list |

Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-executionHook" |

| Name | Type | Required | Description |
|----------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [
    {
      "type": "podLabel",
      "value": "^env=production$"
    },
    {
      "type": "containerName",
      "value": "^payroll-master"
    }
  ],
  "matchingImages": [
    "docker.io/bitnami/payroll:3.7.8",
    "docker.io/bitnami/payroll:4.1.2"
  ],
  "matchingContainers": [
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        },
        {
          "name": "app.kubernetes.io/managed-by",
          "value": "Helm"
        }
      ],
      "containerName": "payroll-master-0",
      "containerImage": "docker.io/bitnami/payroll:3.7.8"
    },
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "name": "app.kubernetes.io/managed-by",
      "value": "Helm"
    }
  ],
  "containerName": "payroll-master-1",
  "containerImage": "docker.io/bitnami/payroll:3.7.8"
}
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
"arguments": [
  "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Payroll production hook",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| name | string | True | |

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an execution hook for an app

PUT /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks/{executionHook_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Parameters

| Name | Type | In | Required | Description |
|------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| executionHook_id | string | path | True | ID of the executionHook collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| name | string | False | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | False | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | False | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | False | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | False | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "arguments": [
    "freeze",
    "10"
  ]
}
```

Response

Status: 204, Indicates if the executionHook resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an execution hook for an app

DELETE

/accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks/{executionHook_id}

Removes the specified Execution Hook API resource.

Side Effects

- The deleted execution hook will no longer run as part of future actions.

Parameters

| Name | Type | In | Required | Description |
|------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| executionHook_id | string | path | True | ID of the executionHook collection to list |

Response

Status: 204, Indicates if the executionHook resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Execution Hook Override

Execution Hook Override overview

The Execution Hook Override API allows a user to disable the preloaded "netapp" execution hooks for a specific application. **(NOTE BELOW API DEPRECATIONS)**

Create a new execution hook override resource for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHookOverrides

Indicates the desired values for the Execution Hook Override API resource to be created.



This operation is deprecated.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |

Request Body

Indicates the desired values for the Execution Hook Override API resource to be created.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-executionHookOverride" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |
| executionHookID | string | True | JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none">Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp". |

| Name | Type | Required | Description |
|----------|--|----------|--|
| enabled | string | True | <p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> "true" - The execution hook is enabled and will run in a specified order "false" - The execution hook is disabled and cannot run |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false"
}
```

Response

Status: 201, Returns the newly created executionHookOverride resource in the JSON response body.

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-executionHookOverride" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| executionHookID | string | True | JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp". |

| Name | Type | Required | Description |
|----------|----------------------------|----------|---|
| enabled | string | True | <p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run |
| appID | string | True | <p>JSON string containing the associated ID of the application with which the override is linked. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "id": "c11af802-5e53-5897-8cd9-2de730494be3",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false",
  "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the execution hook override resources for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHookOverrides

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.



This operation is deprecated.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: executionHookOverride_1 , .0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-executionHookOverrides",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-executionHookOverride",
      "version": "1.0",
      "id": "36d06222-bd0c-4897-89c2-c16dd9265e12",
      "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
      "enabled": "false",
      "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "863feb92-8619-4298-b222-c48a886024f8"
      }
    },
    {
      "type": "application/astra-executionHookOverride",
      "version": "1.0",
      "id": "f8d1ce66-6c0e-4d3a-96c5-a5e76669442d",
      "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
      "enabled": "false",
      "appID": "36b076ae-b7c4-4e96-a323-ed167ede74ba",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "863feb92-8619-4298-b222-c48a886024f8"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

executionHookOverride_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-executionHookOverride" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| executionHookID | string | True | <p>JSON string containing the ID of an execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp". |
| enabled | string | True | <p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run |
| appID | string | True | <p>JSON string containing the associated ID of the application with which the override is linked. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an execution hook override resource

GET

/accounts/{account_id}/k8s/v1/apps/{app_id}/executionHookOverrides/{executionHookOverride_id}

Returns the stored Execution Hook Override API resource in the JSON response body.



This operation is deprecated.

Parameters

| Name | Type | In | Required | Description |
|--------------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| executionHookOverride_id | string | path | True | ID of the executionHookOverride collection to list |

Response

Status: 200, Returns the stored Execution Hook Override API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-executionHookOverride" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| executionHookID | string | True | JSON string containing the ID of an execution hook. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp". |
| enabled | string | True | JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are: <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run |
| appID | string | True | JSON string containing the associated ID of the application with which the override is linked. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "id": "c11af802-5e53-5897-8cd9-2de730494be3",
  "executionHookID": "eb863cc6-0d9a-454d-8ef7-81b7cac91929",
  "enabled": "false",
  "appID": "4b43c2f7-bffa-4f60-b595-d98a05b64bc9",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an execution hook override resource

PUT

/accounts/{account_id}/k8s/v1/apps/{app_id}/executionHookOverrides/{executionHookOverride_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be disabled if the value of enabled is changed from "true" to "false" during the replace operation.

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be enabled if the value of enabled is changed from "false" to "true" during the replace operation.



This operation is deprecated.

Parameters

| Name | Type | In | Required | Description |
|--------------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| executionHookOverride_id | string | path | True | ID of the executionHookOverride collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be disabled if the value of enabled is changed from "true" to "false" during the replace operation.
- Any execution hook with a hookType value of "netapp" that applies to the specified application will be enabled if the value of enabled is changed from "false" to "true" during the replace operation.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-executionHookOverride" |
| version | string | True | Version of the resource. Defined values are: • "1.0" |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| id | string | False | <p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| executionHookID | string | False | <p>JSON string containing the ID of an execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema Only allows the executionHookID of an execution hook resource with a hookType value of "netapp". |
| enabled | string | False | <p>JSON string that indicates whether the execution hook is enabled for the specified application. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will run in a specified order • "false" - The execution hook is disabled and cannot run |
| appID | string | False | <p>JSON string containing the associated ID of the application with which the override is linked. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-executionHookOverride",
  "version": "1.0",
  "enabled": "false"
}
```

Response

Status: 204, Indicates if the executionHookOverride resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete an execution hook override resource

DELETE

/accounts/{account_id}/k8s/v1/apps/{app_id}/executionHookOverrides/{executionHookOverride_id}

Removes the specified Execution Hook Override API resource.

Side Effects

- Any execution hook with a hookType value of "netapp" that applies to the specified application will be enabled when a new execution hook override is deleted if it had an enabled value of "false".



This operation is deprecated.

Parameters

| Name | Type | In | Required | Description |
|--------------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| executionHookOverride_id | string | path | True | ID of the executionHookOverride collection to list |

Response

Status: 204, Indicates if the executionHookOverride resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Feature

Feature overview

The Feature API provides read-only access to feature flag resources in order to determine which features are enabled or disabled in the system.

List all features

GET `/accounts/{account_id}/core/v1/features`

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| count | string | query | False | <p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: feature_1.1_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-features",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-feature",
      "version": "1.0",
      "id": "c1d4d2f7-9b30-45a2-9657-8b24f17a4fd1",
      "name": "astra.account.rbac",
      "isEnabled": "true",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2021-02-19T22:10:22.448274Z",
        "modificationTimestamp": "2021-02-19T22:10:22.448274Z",
        "createdBy": "c9550bbb-e70b-4578-8504-07397f875bcb"
      }
    },
    {
      "type": "application/astra-feature",
      "version": "1.0",
      "id": "85c693cd-2f89-4944-982a-e885301162bd",
      "name": "astra.account.smtp",
      "isEnabled": "false",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2021-02-19T22:10:22.448274Z",
        "modificationTimestamp": "2021-02-19T22:10:22.448274Z",
        "createdBy": "c9550bbb-e70b-4578-8504-07397f875bcb"
      }
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

feature_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-feature" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|-------------------------------------|----------|--|
| name | string | True | JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| isEnabled | string | True | JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: <ul style="list-style-type: none"> • "true" - The feature flag is enabled. • "false" - The feature flag is disabled. |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a feature

GET /accounts/{account_id}/core/v1/features/{feature_id}

Returns the stored Feature API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| feature_id | string | path | True | ID of the feature collection to list |

Response

Status: 200, Returns the stored Feature API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-feature" |

| Name | Type | Required | Description |
|-----------|-------------------------------------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the feature, in hierarchal dot notation. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| isEnabled | string | True | JSON string containing a value indicating whether the feature flag is turned on or off. Defined values are: <ul style="list-style-type: none"> • "true" - The feature flag is enabled. • "false" - The feature flag is disabled. |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-feature",
  "version": "1.1",
  "id": "2d960b50-10be-5a19-a3ef-80bd08c12a89",
  "name": "astra.account.rbac",
  "isEnabled": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Group

Group overview

The Group API provides access to Astra group resources.

Create a new group

POST /accounts/{account_id}/core/v1/groups

Indicates the desired values for the Group API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates the desired values for the Group API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| name | string | False | The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none">first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are:<ul style="list-style-type: none">Minimum length: 1Maximum length: 2048 |

| Name | Type | Required | Description |
|--------------|--|----------|---|
| authProvider | string | True | The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com"
}
```

Response

Status: 201, Returns the newly created group resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none">• first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID,• authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are:<ul style="list-style-type: none">• Minimum length: 1• Maximum length: 2048 |

| Name | Type | Required | Description |
|--------------|----------------------------|----------|--|
| authProvider | string | True | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

Response

Status: 406, Not acceptable

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all groups

GET /accounts/{account_id}/core/v1/groups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,authProvider, authID |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue> OpenAPI examples: <continue token="" from="" collection="" metadata=""></continue></continue> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: group_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-groups",
  "version": "1.1",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "ldap",
      "CN=Testers,CN=groups,DC=example,DC=com"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "ldap",
      "CN=Admins,CN=groups,DC=example,DC=com"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "ldap",
      "CN=SREs,CN=groups,DC=example,DC=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

group_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| name | string | True | <p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | True | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a group

GET /accounts/{account_id}/core/v1/groups/{group_id}

Returns the stored Group API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the group collection to list |

Response

Status: 200, Returns the stored Group API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| name | string | True | <p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | True | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a group

PUT /accounts/{account_id}/core/v1/groups/{group_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the group collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| name | string | False | <p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | False | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | False | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "my-qa-group",
  "authID": "CN=QA,CN=Groups,DC=example,DC=com"
}
```

Response

Status: 204, Indicates if the group resource was updated.

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete a group

DELETE /accounts/{account_id}/core/v1/groups/{group_id}

Removes the specified Group API resource.

Side Effects

- The following resources associated with the group are deleted:
- Role bindings referring to the group

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the group collection to list |

Response

Status: 204, Indicates if the group resource was deleted.

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new group for a user

POST /accounts/{account_id}/core/v1/users/{user_id}/groups

Indicates the desired values for the Group API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |

Request Body

Indicates the desired values for the Group API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-group" |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| name | string | False | The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | True | The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com"
}
```

Response

Status: 201, Returns the newly created group resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-group" |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | The name of the group resource. If not specified on create, the value will be set to <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | True | The authentication provider for the group resource. Defined values are: <ul style="list-style-type: none"> • "Idap" |
| authID | string | True | The Distinguished Name (DN) for an LDAP group. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=Groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

Response

Status: 406, Not acceptable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List groups for a user

GET /accounts/{account_id}/core/v1/users/{user_id}/groups

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,authProvider, authID |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue> OpenAPI examples: <continue token="" from="" collection="" metadata=""></continue></continue> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: group_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-groups",
  "version": "1.1",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "ldap",
      "CN=Testers,CN=groups,DC=example,DC=com"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "ldap",
      "CN=Admins,CN=groups,DC=example,DC=com"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "ldap",
      "CN=SREs,CN=groups,DC=example,DC=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

group_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| name | string | True | <p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | True | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a group for a user

GET /accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}

Returns the stored Group API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the group collection to list |

Response

Status: 200, Returns the stored Group API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| name | string | True | <p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | True | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | True | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "id": "77754011-b93f-515e-a145-5a343aecdece",
  "name": "engineering-group",
  "authProvider": "ldap",
  "authID": "CN=Engineering,CN=groups,DC=example,DC=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a group for a user

PUT /accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the group collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-group" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| name | string | False | <p>The name of the group resource. If not specified on create, the value will be set to</p> <ul style="list-style-type: none"> • first Common Name (CN) Relative Distinguished Names (RDN) if found in the authID, • authID, otherwise. If not specified on update, the value will be preserved without modification. Defined values are: • Minimum length: 1 • Maximum length: 2048 |
| authProvider | string | False | <p>The authentication provider for the group resource. Defined values are:</p> <ul style="list-style-type: none"> • "ldap" |
| authID | string | False | <p>The Distinguished Name (DN) for an LDAP group. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 2048 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-group",
  "version": "1.1",
  "name": "my-qa-group",
  "authID": "CN=QA,CN=Groups,DC=example,DC=com"
}
```

Response

Status: 204, Indicates if the group resource was updated.

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/7",
  "title": "Invalid JSON payload",
  "detail": "The request body is not valid JSON.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete a group for a user

```
DELETE /accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}
```

Removes the specified Group API resource.

Side Effects

- The following resources associated with the group are deleted:
- Role bindings referring to the group

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the group collection to list |

Response

```
Status: 204, Indicates if the group resource was deleted.
```

Response

```
Status: 400, Bad request
```

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/12",
  "title": "Invalid headers",
  "detail": "The request headers are invalid.",
  "status": "400"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Hook source

Hook source overview

The Hook Source API enables simple management of hook sources separate from the management of the execution hook resources. For example, a single hook source can be referenced by multiple execution hooks to avoid duplicate hook sources and allow a single API call to update one hook source, even if it is used by multiple execution hook resources.

Create a new hook source

POST /accounts/{account_id}/core/v1/hookSources

Indicates the desired values for the Hook Source API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

Request Body

Indicates the desired values for the Hook Source API resource to be created.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-hookSource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 The name is required to be unique within all hook source resources. |
| sourceType | string | True | JSON string defining the hook source type. Defined values are: <ul style="list-style-type: none"> "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned. |

| Name | Type | Required | Description |
|-------------|--|----------|---|
| source | string | True | <p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64. |
| description | string | False | <p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "name": "Payroll script",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "description": "Pre and post hook script for payroll"
}
```

Response

Status: 201, Returns the newly created hookSource resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-hookSource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>The name is required to be unique within all hook source resources.</p> |
| private | string | True | <p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API. |
| preloaded | string | True | <p>JSON string that indicates whether the source was preloaded. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only. |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| sourceType | string | True | <p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned. |
| source | string | False | <p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64. |
| sourceMD5Checksum | string | True | <p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^([0-9a-fA-F]){32}\$"</code> |
| description | string | False | <p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "id": "fae6dfbb-ecb8-58ff-a116-6357eb7c956a",
  "name": "Payroll script",
  "private": "false",
  "preloaded": "false",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
  "description": "Pre and post hook script for payroll",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all hook sources

GET /accounts/{account_id}/core/v1/hookSources

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: hookSource_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-hookSources",
  "version": "1.0",
  "items": [
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "2d6154dd-6863-4a26-8017-6be092b8b0bd",
      "name": "Payroll script",
      "private": "false",
      "preloaded": "false",
      "sourceType": "script",
      "source": "ZWNobyAiVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
      "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
      "description": "Pre and post hook script for payroll",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "b71c6793-aa9b-4654-92ef-60663a0aedac",
      "name": "Payroll script",
      "private": "true",
      "preloaded": "false",
      "sourceType": "script",
      "sourceMD5Checksum": "6469094cb279f6d91358bc5062d15baf",
      "description": "Pre and post hook script for payroll",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-08T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-08T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-hookSource",
      "version": "1.0",
      "id": "682fe9d2-52d2-4c30-bcec-ecefddde359c",
      "name": "NetApp preloaded ",

```

```

    "private": "true",
    "preloaded": "false",
    "sourceType": "script",
    "sourceMD5Checksum": "7864495443c1087104520a320a2225c9",
    "description": "NetApp Postgres preloaded snapshot pre and post",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-07-12T12:24:52.256624Z",
      "modificationTimestamp": "2020-07-12T12:24:52.256624Z",
      "createdBy": "4428cfd4-27fd-4248-9f49-bd3a02043ab8"
    }
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

hookSource_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-hookSource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>The name is required to be unique within all hook source resources.</p> |
| private | string | True | <p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API. |
| preloaded | string | True | <p>JSON string that indicates whether the source was preloaded. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only. |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| sourceType | string | True | <p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned. |
| source | string | False | <p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64. |
| sourceMD5Checksum | string | True | <p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^([0-9a-fA-F]){32}\$"</code> |
| description | string | False | <p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a hook source

GET /accounts/{account_id}/core/v1/hookSources/{hookSource_id}

Returns the stored Hook Source API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| hookSource_id | string | path | True | ID of the hookSource collection to list |

Response

Status: 200, Returns the stored Hook Source API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-hookSource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>The name is required to be unique within all hook source resources.</p> |
| private | string | True | <p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API. |
| preloaded | string | True | <p>JSON string that indicates whether the source was preloaded. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only. |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| sourceType | string | True | <p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned. |
| source | string | False | <p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64. |
| sourceMD5Checksum | string | True | <p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^([0-9a-fA-F]){32}\$"</code> |
| description | string | False | <p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "id": "fae6dfbb-ecb8-58ff-a116-6357eb7c956a",
  "name": "Payroll script",
  "private": "false",
  "preloaded": "false",
  "sourceType": "script",
  "source": "ZWNobyAIVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "sourceMD5Checksum": "b1a4b8b0144c3f6be553b626130ca145",
  "description": "Pre and post hook script for payroll",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a hook source

PUT /accounts/{account_id}/core/v1/hookSources/{hookSource_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Updating an existing source hook will immediately impact any future snapshots of applications that have matching execution hooks that use the updated source hook resource.
- The MD5 checksum is computed on the value of the "source" field and set as the value of the "sourceMD5Checksum" field.

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| hookSource_id | string | path | True | ID of the hookSource collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Updating an existing source hook will immediately impact any future snapshots of applications that have matching execution hooks that use the updated source hook resource.
- The MD5 checksum is computed on the value of the "source" field and set as the value of the "sourceMD5Checksum" field.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-hookSource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| name | string | False | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>The name is required to be unique within all hook source resources.</p> |
| private | string | False | <p>JSON string indicating whether the source field will be exposed in APIs or be intentionally left blank. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source value is private and will not be exposed through the API. • "false" - The source value is not private and will be exposed through the API. |
| preloaded | string | False | <p>JSON string that indicates whether the source was preloaded. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The source was preloaded. • "false" - The source was not preloaded. Preloaded hook source resources are read only. |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| sourceType | string | False | <p>JSON string defining the hook source type. Defined values are:</p> <ul style="list-style-type: none"> • "script" - Shell script. The plaintext source must not contain binary data or carriage-return characters, otherwise, an error is returned. |
| source | string | False | <p>JSON string containing the script to be run in base64 format. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 131072 • Conforms to the base64 Encoded Data Schema The maximum size of a source value is 128 KiB when encoded using base64. |
| sourceMD5Checksum | string | False | <p>JSON string containing the MD5 checksum computed for the value of the "source" key. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^([0-9a-fA-F]){32}\$"</code> |
| description | string | False | <p>JSON string containing a user-specified description of the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-hookSource",
  "version": "1.0",
  "source": "ZWNobyAiVkhKaGJuTWdVbWxuYUhSeklRPT0iIHwgYmFzZTY0IC1k",
  "description": "Pre and post hook script for order processing v2"
}
```

Response

Status: 204, Indicates if the hookSource resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a hook source

DELETE /accounts/{account_id}/core/v1/hookSources/{hookSource_id}

Removes the specified Hook Source API resource.

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| hookSource_id | string | path | True | ID of the hookSource collection to list |

Response

Status: 204, Indicates if the hookSource resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Kubernetes API Resource

Kubernetes API Resource overview

The Kubernetes API Resource API provides read-only access to Kubernetes API resources to filter the ones supported by Astra on a given cluster.

List the K8s API resources for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/apiResources

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: id,kind,apiVersion |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: apiResource_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-apiResources",
  "version": "1.0",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "ClusterRole",
      "rbac.authorization.k8s.io/v1"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "ClusterRoleBinding",
      "rbac.authorization.k8s.io/v1"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

apiResource_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-apiResource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------|-------------------------------------|----------|--|
| apiVersion | string | True | JSON string representing the API version of the resource, as set in or by Kubernetes. APIVersion defines the versioned schema for this object representation. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources |
| kind | string | True | JSON string representing the kind of the resource, as set in or by Kubernetes. The kind field uses camel case and contains a string value representing the REST resource this object represents. Servers might infer this from the endpoint the client submits requests to. It cannot be updated. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a K8s API resource

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/apiResources/{apiResource_id}

Returns the specific API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| apiResource_id | string | path | True | ID of the apiResource collection to list |

Response

Status: 200, Returns the specific API resource in the JSON response body.

| Name | Type | Required | Description |
|------------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-apiResource" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| apiVersion | string | True | JSON string representing the API version of the resource, as set in or by Kubernetes. APIVersion defines the versioned schema for this object representation. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| kind | string | True | JSON string representing the kind of the resource, as set in or by Kubernetes. The kind field uses camel case and contains a string value representing the REST resource this object represents. Servers might infer this from the endpoint the client submits requests to. It cannot be updated. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-apiResource",
  "version": "1.0",
  "id": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "kind": "ClusterRole",
  "apiVersion": "rbac.authorization.k8s.io/v1",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

LDAP Group

LDAP Group overview

The LDAP Group API provides read-only access to LDAP groups within the configured LDAP server.

List all LDAP groups

GET /accounts/{account_id}/core/v1/ldapGroups

Returns a JSON array of JSON objects containing the results of the request URL.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,cn,dn |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| continue | | query | False | <p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"</p> |

Response

Status: 200, Returns a JSON array of JSON objects containing the results of the request URL.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: ldapGroup_1.0_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-ldapGroups",
  "version": "1.0",
  "items": [
    [
      "4a461f57-70e6-5732-882e-8d5f684f15a1",
      "boulder_sysadmins",
      "cn=boulder_sysadmins,ou=groups,dc=example,dc=com"
    ],
    [
      "da4bbb6f-8f2c-57eb-a9cf-6eefbf9e35d",
      "rtp_sysadmins",
      "cn=rtp_sysadmins,ou=groups,dc=example,dc=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

Response

Status: 406, Not acceptable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

ldapGroup_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-ldapGroup" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| cn | string | False | JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| dn | string | False | JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> • Conforms to RFC 4514 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an LDAP group

GET /accounts/{account_id}/core/v1/ldapGroups/{ldapGroup_id}

Returns a JSON object representing the stored LDAP resource.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| ldapGroup_id | string | path | True | ID of the ldapGroup collection to list |

Response

Status: 200, Returns a JSON object representing the stored LDAP resource.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-ldapGroup" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| cn | string | False | JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| dn | string | False | JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> • Conforms to RFC 4514 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-ldapGroup",
  "version": "1.0",
  "id": "cb05a289-a7a1-502c-a2bc-7e75dba8fddc",
  "cn": "boulder_sysadmins",
  "dn": "cn=boulder_sysadmins,ou=groups,dc=example,dc=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

LDAP User

LDAP User overview

The LDAP User API provides read-only access to LDAP users within the configured LDAP server.

List all LDAP users

GET /accounts/{account_id}/core/v1/ldapUsers

Returns a JSON array of JSON objects containing the results of the request URL.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,cn,dn |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| continue | | query | False | <p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue>&lt;/continue&gt;"</p> |

Response

Status: 200, Returns a JSON array of JSON objects containing the results of the request URL.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: ldapUser_1.0_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-ldapUsers",
  "version": "1.0",
  "items": [
    [
      "b4bcef18-14ad-5bc1-91ce-3cce15aa8791",
      "John Doe",
      "cn=John Doe,ou=people,dc=example,dc=com"
    ],
    [
      "98b10d6f-8693-555f-b258-70de4cc7301f",
      "Jane Doe",
      "cn=Jane Doe,ou=people,dc=example,dc=com"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/14",
  "title": "Unauthorized access",
  "detail": "The user isn't enabled.",
  "status": "403"
}
```

Response

Status: 406, Not acceptable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/32",
  "title": "Unsupported content type",
  "detail": "The response can't be returned in the requested format.",
  "status": "406"
}
```

Response

Status: 500, Internal server error

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/34",
  "title": "Internal server error",
  "detail": "The server was unable to process this request.",
  "status": "500"
}
```

Error

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

ldapUser_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-ldapUser" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| email | string | False | JSON string representing the email of the LDAP user. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 63 |
| firstName | string | False | JSON string representing the first name of the LDAP user. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| lastName | string | False | JSON string representing the last name of the LDAP user. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| cn | string | False | JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| dn | string | False | JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> • Conforms to RFC 4514 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an LDAP user

GET /accounts/{account_id}/core/v1/ldapUsers/{ldapUser_id}

Returns a JSON object representing the stored LDAP resource.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| ldapUser_id | string | path | True | ID of the ldapUser collection to list |

Response

Status: 200, Returns a JSON object representing the stored LDAP resource.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-ldapUser" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| email | string | False | JSON string representing the email of the LDAP user. Defined values are: <ul style="list-style-type: none"> Minimum length: 3 Maximum length: 63 |

| Name | Type | Required | Description |
|-----------|-------------------------------------|----------|---|
| firstName | string | False | JSON string representing the first name of the LDAP user. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| lastName | string | False | JSON string representing the last name of the LDAP user. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| cn | string | False | JSON string representing the LDAP group name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| dn | string | False | JSON string representing the distinguished name of the LDAP group. Defined values are: <ul style="list-style-type: none"> • Conforms to RFC 4514 |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-ldapUser",
  "version": "1.0",
  "id": "2add73ff-89dc-5ff1-be85-39d97549556d",
  "email": "<a href="
mailto:johndoe@example.com">johndoe@example.com</a>",
  "firstName": "John",
  "lastName": "Doe",
  "cn": "John Doe",
  "dn": "cn=John Doe,ou=people,dc=example,dc=com",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

License

License overview

The License API represents licenses loaded into the account.

Create a new license

POST /accounts/{account_id}/core/v1/licenses

Indicates the desired values for the License API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates the desired values for the License API resource to be created.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-license" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |
| allocation | string | False | JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none">Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|----------------------------|----------|--|
| deviceCredentialID | string | False | <p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| licenseText | string | True | <p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

Response

Status: 201, Returns the newly created license resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-license" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|--------|----------|---|
| allocation | string | False | <p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| hostID | string | False | <p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| deviceCredentialID | string | False | <p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| isEvaluation | string | True | <p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> • "true" • "false" |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| licenseProtocol | string | True | <p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| licenseText | string | True | <p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| validFromTimestamp | string | True | <p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | True | <p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| product | string | True | <p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productVersion | string | True | <p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productSN | string | True | <p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| features | string | True | <p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| capacity | string | True | <p>JSON string containing the capacity extracted from the license.</p> |
| capacity2 | string | True | <p>JSON string containing the secondary capacity extracted from the license.</p> |

| Name | Type | Required | Description |
|----------|--|----------|--|
| addons | array[addons] | False | JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs, dm-storage-policy-based-pvs-for-k8s, dm-spbm-
based-vvols-for-vms, dm-storage-efficiency, dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

addons

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| startDate | string | False | JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| endDate | string | False | JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| features | string | False | JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none"> String contents not validated by the schema. |
| capacity | string | False | JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none"> String contents not validated by the schema |
| licenseProtocol | string | False | JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none"> String contents not validated by the schema |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all licenses

GET /accounts/{account_id}/core/v1/licenses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,product |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: license_1.0_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-licenses",
  "version": "1.0",
  "items": [
    [
      "c8aa757a-5318-489f-8134-a2a1a6956a3e",
      "Astra SDS"
    ],
    [
      "0f7cc03d-9afc-4192-af7f-b29ab24f8f2a",
      "Astra Enterprise"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

addons

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| startDate | string | False | JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| endDate | string | False | JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| features | string | False | JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema. |
| capacity | string | False | JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema |
| licenseProtocol | string | False | JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

license_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-license" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|--------|----------|---|
| allocation | string | False | <p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| hostID | string | False | <p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| deviceCredentialID | string | False | <p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| isEvaluation | string | True | <p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> • "true" • "false" |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| licenseProtocol | string | True | <p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| licenseText | string | True | <p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| validFromTimestamp | string | True | <p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | True | <p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| product | string | True | <p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productVersion | string | True | <p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productSN | string | True | <p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| features | string | True | <p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| capacity | string | True | <p>JSON string containing the capacity extracted from the license.</p> |
| capacity2 | string | True | <p>JSON string containing the secondary capacity extracted from the license.</p> |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| addons | array[addons] | False | JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a license

GET /accounts/{account_id}/core/v1/licenses/{license_id}

Returns the stored License API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| license_id | string | path | True | ID of the license collection to list |

Response

Status: 200, Returns the stored License API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-license" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |

| Name | Type | Required | Description |
|--------------------|--------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| allocation | string | False | JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| hostID | string | False | JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| deviceCredentialID | string | False | JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|--------|----------|--|
| isEvaluation | string | True | <p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> • "true" • "false" |
| licenseProtocol | string | True | <p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| licenseText | string | True | <p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| validFromTimestamp | string | True | <p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| validUntilTimestamp | string | True | <p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| product | string | True | <p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productVersion | string | True | <p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productSN | string | True | <p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| features | string | True | <p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |

| Name | Type | Required | Description |
|-----------|----------------------------|----------|--|
| capacity | string | True | JSON string containing the capacity extracted from the license. |
| capacity2 | string | True | JSON string containing the secondary capacity extracted from the license. |
| addons | array[addons] | False | JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date. |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "id": "6db53b32-8417-5d3c-8ef0-552fc602c78f",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "hostID": "99132549-e0c2-4203-9d1e-598628b4ff9b",
  "isEvaluation": "false",
  "licenseProtocol": "ASTRASDS-ENT-SUBS",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9",
  "validFromTimestamp": "2020-08-06T00:00:00.000000Z",
  "validUntilTimestamp": "2021-08-06T00:00:00.000000Z",
  "product": "Astra Control Center",
  "productVersion": "1.0",
  "productSN": "320000046",
  "features": "ASTRA-ENT-STD",
  "capacity": "4000",
  "capacity2": "0",
  "addons": [
    {
      "startDate": "2020-08-06T00:00:00.000000Z",
      "endDate": "2021-08-06T00:00:00.000000Z",
      "capacity": "4000",
      "licenseProtocol": "ASTRA-ENT-STD",
      "features": "p-nfs,dm-storage-policy-based-pvs-for-k8s,dm-spbm-
based-vvols-for-vms,dm-storage-efficiency,dm-data-at-rest-encryption"
    }
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

addons

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| startDate | string | False | JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| endDate | string | False | JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| features | string | False | JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema. |
| capacity | string | False | JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema |
| licenseProtocol | string | False | JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a license

PUT /accounts/{account_id}/core/v1/licenses/{license_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| license_id | string | path | True | ID of the license collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Entitlements are recalculated to add or merge the license entitlements visible through the Entitlement API.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-license" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|--------|----------|---|
| allocation | string | False | <p>JSON string containing an ID indicating what the license is allocated to. Only present when the license is allocated. For Astra Control Center licenses, this field must be populated with the account ID and must match the account ID specified in the POST URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| hostID | string | False | <p>JSON string containing a host identifier that a license is bound to. Only present if the license is host-locked. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| deviceCredentialID | string | False | <p>JSON string containing the identifier of the deviceCredential associated with the Credential API. Only present for Astra Data Store licenses. Defined value are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| isEvaluation | string | False | <p>JSON string indicating whether the license is an evaluation license. Defined values are:</p> <ul style="list-style-type: none"> • "true" • "false" |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| licenseProtocol | string | False | <p>JSON string containing the license protocol extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| licenseText | string | False | <p>JSON string containing a base64 encoded representation of the license JSON as obtained from the NetApp license system. This must be provided in the original byte-level order to allow signature verification. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| validFromTimestamp | string | False | <p>JSON string containing a timestamp indicating when the license becomes valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| validUntilTimestamp | string | False | <p>JSON string containing a timestamp indicating when the license is no longer valid. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| product | string | False | <p>JSON string containing the product string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productVersion | string | False | <p>JSON string containing the version string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| productSN | string | False | <p>JSON string containing the serial number string extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| features | string | False | <p>JSON string containing the package value extracted from the license. Defined values are:</p> <ul style="list-style-type: none"> • String contents not validated by the schema |
| capacity | string | False | <p>JSON string containing the capacity extracted from the license.</p> |
| capacity2 | string | False | <p>JSON string containing the secondary capacity extracted from the license.</p> |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| addons | array[addons] | False | JSON array of JSON objects containing the list of add-ons from the license. An add-on is a change in license occurring at a potential future date. |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-license",
  "version": "1.0",
  "allocation": "4185d09b-6687-4801-a832-c005a9d94f41",
  "licenseText": "ewogICAic3RhdHVzUmVzcCI6ewogMTYwNzAwIgp9"
}
```

Response

Status: 204, Indicates if the license resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

addons

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| startDate | string | False | JSON string containing a timestamp indicating when this add-on becomes valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| endDate | string | False | JSON string containing a timestamp indicating when this add-on is no longer valid. Defined values are: <ul style="list-style-type: none">• Conforms to the ISO-8601 Date Time Schema |
| features | string | False | JSON string containing the list of features associated with this add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema. |
| capacity | string | False | JSON string containing the capacity extracted from the add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema |
| licenseProtocol | string | False | JSON string containing the license protocol associated with this add-on. Defined values are: <ul style="list-style-type: none">• String contents not validated by the schema |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a license

```
DELETE /accounts/{account_id}/core/v1/licenses/{license_id}
```

Removes the specified License API resource. The automatically installed evaluation license cannot be deleted.

Side Effects

- Entitlements are recalculated to remove the license entitlements visible through the Entitlement API. If the automatically installed evaluation license was present on this system before deletion, it is reapplied to the system automatically.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| license_id | string | path | True | ID of the license collection to list |

Response

```
Status: 204, Indicates if the license resource was deleted.
```

Response

```
Status: 401, Unauthorized
```

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Managed cluster

Managed cluster overview

The Managed Cluster API represents managed Kubernetes clusters.

Create a new managed cluster

POST /accounts/{account_id}/topology/v1/managedClusters

Indicates desired values for the Managed Cluster API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates desired values for the Managed Cluster API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-managedCluster" |

| Name | Type | Required | Description |
|----------------------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| tridentManagedStateDesired | string | False | JSON string containing a value indicating the desired management state for Trident. Defined values are: <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| defaultStorageClass | string | False | JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered. |

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "id": "6f2fa469-cdae-54be-a451-d0e94a47fa62",
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "tridentManagedStateDesired": "managed"
}
```

Response

Status: 201, Returns the newly created managedCluster resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-managedCluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster's state cannot be determined |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|-------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management |

| Name | Type | Required | Description |
|------------------------|---|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| managedTimestamp | string | True | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |

| Name | Type | Required | Description |
|----------------------------|-------------------------------|----------|--|
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| inUse | string | True | <p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | True | <p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | True | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| location | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| isMultizonal | string | True | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |

| Name | Type | Required | Description |
|----------------|--|----------|---|
| privateRouteID | string | False | <p>JSON string containing the locationID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "id": "6f2fa469-cdae-54be-a451-d0e94a47fa62",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all managed clusters

GET /accounts/{account_id}/topology/v1/managedClusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name,managedState</code> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: managedCluster_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-managedClusters",
  "version": "1.2",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

managedCluster_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-managedCluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster's state cannot be determined |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|-------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots |
| protectionStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| managedTimestamp | string | True | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |

| Name | Type | Required | Description |
|----------------------------|-------------------------------|----------|--|
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| inUse | string | True | <p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | True | <p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | True | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| location | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| isMultizonal | string | True | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |

| Name | Type | Required | Description |
|----------------|--|----------|--|
| privateRouteID | string | False | JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| apiServiceID | string | False | JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster. |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a managed cluster

GET /accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}

Returns the stored Managed Cluster API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the managedCluster collection to list |

Response

Status: 200, Returns the stored Managed Cluster API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-managedCluster" |

| Name | Type | Required | Description |
|---------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster's state cannot be determined |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|-------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management |

| Name | Type | Required | Description |
|------------------------|-------------------------------|----------|--|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| managedTimestamp | string | True | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |

| Name | Type | Required | Description |
|----------------------------|-------------------------------|----------|--|
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| inUse | string | True | <p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | True | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | True | <p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | True | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| cloudID | string | True | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| location | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| isMultizonal | string | True | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |

| Name | Type | Required | Description |
|----------------|--|----------|---|
| privateRouteID | string | False | <p>JSON string containing the locationID for private clusters.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| apiServiceID | string | False | <p>JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "id": "6f2fa469-cdae-54be-a451-d0e94a47fa62",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "21.07.2",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "true",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a managed cluster

PUT /accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the managedCluster collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-managedCluster" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" |

| Name | Type | Required | Description |
|------|--------|----------|--|
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| state | string | False | <p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled for discovery • "discovering" - The cluster is in the process of being discovered • "provisioning" - The cluster is in the process of being provisioned • "running" - The cluster is running normally • "failed" - The cluster is in a permanent failure state • "removed" - The cluster is not currently accessible • "unknown" - The cluster's state cannot be determined |
| restoreTargetSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible target for app data management operations. • "false" - Cluster is <i>not</i> an eligible target for app data management operations. |

| Name | Type | Required | Description |
|-------------------|---------------|----------|---|
| snapshotSupported | string | False | <p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Cluster is an eligible to perform app data management operations. • "false" - Cluster is <i>not</i> eligible to perform app data management operations. |
| stateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| managedState | string | False | <p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The cluster is scheduled to be discovered or added • "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value • "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management • "managing" - The cluster is in a "running" state and is in the process of being managed • "managed" - The cluster is in a "running", "failed", or "removed" state and is under management |

| Name | Type | Required | Description |
|------------------------|---|----------|--|
| protectionState | string | False | <p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • "full" - The cluster's default storage class supports snapshots • "partial" - The cluster has only storage classes that do not support snapshots • "atRisk" - The cluster's default storage class does not support snapshots |
| protectionStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| managedStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| managedTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed". |
| tridentVersion | string | False | <p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Software Version Schema |
| tridentManagedState | string | False | <p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Trident instance on the cluster is managed by Astra • "unmanaged" - Trident instance on the cluster is not managed by Astra |

| Name | Type | Required | Description |
|----------------------------|-------------------------------|----------|--|
| tridentManagedStateDesired | string | False | <p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> • "managed" - Manage Trident on this cluster • "unmanaged" - Do not manage Trident on this cluster |
| tridentManagedStateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| tridentManagedStateAllowed | array[string] | False | <p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "managed": "managed" • "unmanaged": "unmanaged" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| inUse | string | False | <p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> • "false" - The cluster is not managed, or it is managed but has no managed applications associated with it • "true" - The cluster is managed and has managed applications associated with it |
| accHost | string | False | <p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> • "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| clusterType | string | False | <p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> • "gke" - Kubernetes hosted on Google Kubernetes Engine • "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service • "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service • "rke" - The cluster is of type Rancher • "tanzu" -The cluster is of type Tanzu Kubernetes Grid • "openshift" - The cluster is of type OpenShift • "kubernetes" - The cluster is generic Kubernetes |
| clusterVersion | string | False | <p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|--------------------------|---------------|----------|---|
| clusterVersionString | string | False | <p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| clusterCreationTimestamp | string | False | <p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| namespaces | array[string] | False | <p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 |
| defaultStorageClass | string | False | <p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not included, it has not yet been discovered. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| cloudID | string | False | <p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| credentialID | string | False | <p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| location | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| isMultizonal | string | False | <p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The cluster spans two or more availability zones • "false" - The cluster is wholly located within a single availability zone |

| Name | Type | Required | Description |
|----------------|----------------------------|----------|--|
| privateRouteID | string | False | JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| apiServiceID | string | False | JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster. |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.2",
  "defaultStorageClass": "0b146cda-7fc1-4f32-804c-8130a38a7e1c"
}
```

Response

Status: 204, Indicates if the managedCluster resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a managed cluster

DELETE /accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}

Removes the specified Managed Cluster API resource.

Side Effects

- Internal data structures are cleaned up.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the managedCluster collection to list |

Response

Status: 204, Indicates if the managedCluster resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Metrics

Metrics overview

The Metrics API represents metrics associated with a given account.

Retrieve all metrics for an account

GET /accounts/{account_id}/metrics

Returns all metrics for the account

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |

Response

Status: 200, Returns a OpenMetrics text document containing all metrics for the account.

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Namespace

Namespace overview

The Namespace API provides read-only access to namespace resources in order to describe namespaces associated with a given cluster.

List the namespaces for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the containing cluster resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: id,name,kubernetesLabels |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: namespace_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

namespace_1.1_get_response_body

| Name | Type | Required | Description |
|---------|------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|--------------------------------|----------|---|
| name | string | True | <p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | <p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | <p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a namespace for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/namespaces/{namespace_id}

Returns the stored Namespace API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the containing cluster resource |
| namespace_id | string | path | True | ID of the namespace collection to list |

Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|-------------------------------|----------|---|
| name | string | True | JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDetail] | True | JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Metadata Schema |

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the namespaces for a cluster

GET /accounts/{account_id}/topology/v1/clusters/{cluster_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| cluster_id | string | path | True | ID of the containing cluster resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> • example: id,name,kubernetesLabels |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: namespace_1.1_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

namespace_1.1_get_response_body

| Name | Type | Required | Description |
|---------|------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|--------------------------------|----------|---|
| name | string | True | <p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | <p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | <p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a namespace for a cluster

GET

```
/accounts/{account_id}/topology/v1/clusters/{cluster_id}/namespaces/{namespace_id}
```

Returns the stored Namespace API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| cluster_id | string | path | True | ID of the containing cluster resource |
| namespace_id | string | path | True | ID of the namespace collection to list |

Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|-------------------------------|----------|---|
| name | string | True | JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDetail] | True | JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Metadata Schema |

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List all namespaces

GET /accounts/{account_id}/topology/v1/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: id,name,kubernetesLabels |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: namespace_1.1_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

namespace_1.1_get_response_body

| Name | Type | Required | Description |
|---------|------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|--------------------------------|----------|---|
| name | string | True | <p>JSON string containing a value indicating the name of the namespace. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | <p>JSON string containing a value indicating the state of the namespace. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | <p>JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a namespace

GET /accounts/{account_id}/topology/v1/namespaces/{namespace_id}

Returns the stored Namespace API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|--------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| namespace_id | string | path | True | ID of the namespace collection to list |

Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|-------------------------------|----------|---|
| name | string | True | JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDetail] | True | JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Metadata Schema |

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```


Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the namespaces for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/namespaces

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: id,name,kubernetesLabels |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: namespace_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-namespaces",
  "version": "1.1",
  "items": [
    [
      "7d451d2f-196e-4234-ae9-7e2376047e63",
      "kube-system",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ],
    [
      "66b0873b-214f-4ac7-89d8-922432f941eb",
      "jenkins",
      [
        {
          "name": "app.kubernetes.io/environment",
          "value": "dev"
        }
      ]
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

namespace_1.1_get_response_body

| Name | Type | Required | Description |
|---------|------------------------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|--------------------------------|----------|--|
| name | string | True | JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDe tail] | True | JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a namespace for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/namespaces/{namespace_id}

Returns the stored Namespace API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| namespace_id | string | path | True | ID of the namespace collection to list |

Response

Status: 200, Returns the stored Namespace API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-namespace" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| links | array[type_astra_link] | True | Links describing supported operations against the resource. |

| Name | Type | Required | Description |
|-----------------------|-------------------------------|----------|---|
| name | string | True | JSON string containing a value indicating the name of the namespace. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| namespaceState | string | True | JSON string containing a value indicating the state of the namespace. Defined values are: <ul style="list-style-type: none"> • "discovered" - The namespace has been found in the cluster • "removed" - The namespace has been deleted from the cluster, or the cluster is not managed but there might be resources referring to the namespace |
| namespaceStateDetails | array[type_astra_stateDetail] | True | JSON array of JSON objects that lists additional details about why "state" transitioned into "state a", "state b", or "state c". If no details are available, this array will be empty. Defined values are: <ul style="list-style-type: none"> • Minimum items: 0 |
| kubernetesLabels | array[type_astra_label] | False | JSON array of JSON objects, each containing a Kubernetes label associated with the namespace. Defined values are: <ul style="list-style-type: none"> • Conforms to the Kubernetes Label Array Schema |

| Name | Type | Required | Description |
|------------|--------|----------|---|
| clusterID | string | True | <p>JSON string containing a globally unique identifier of the cluster that the namespace is contained in. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| systemType | string | False | <p>JSON string that denotes that the namespace is a type of system namespace. This field identifies what type of system namespace, if any, the namespace is (version 1.1 only). Defined values are:</p> <ul style="list-style-type: none"> • "kubernetes" - A generic Kubernetes (K8s) system namespace, for example, "kube-system" • "netapp" - A NetApp system namespace, for example, "trident" or "netapp-monitoring" • "openshift" - An OpenShift system namespace, for example, "openshift-monitoring" • "rke" - A Rancher namespace, for example, "cattle-logging" • "other" - Common system namespaces that don't necessarily fit elsewhere, for example, "ingress-nginx", "tekton-system" |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Metadata Schema |

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "type": "application/astra-namespace",
  "version": "1.1",
  "id": "2de811a6-ce8f-512c-9c3a-9585ca66de22",
  "links": [
    {
      "rel": "canonical",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/namespaces/7d451d2f-196e-4234-ae9-7e2376047e63",
      "type": "application/vnd.netapp.astra.namespace"
    },
    {
      "rel": "collection",
      "href": "/accounts/0b311ae7-d89a-4a11-a52c-1349ca090415/topology/v1/clouds/e0490197-872e-4de8-9287-b04a938e801f/clusters/0f284377-e5dc-4dcd-bacd-3197f2b8a347/namespaces",
      "type": "application/vnd.netapp.astra.namespaces"
    }
  ],
  "name": "kube-system",
  "namespaceState": "discovered",
  "namespaceStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/9",
      "title": "Namespace Discovered",
      "detail": "The namespace was discovered in the indicated managed cluster"
    }
  ],
  "kubernetesLabels": [
    {
      "name": "app.kubernetes.io/environment",
      "value": "dev"
    }
  ],
  "clusterID": "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
  "systemType": "kubernetes",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

targetSchema

accept-post

accept-put

hints

| Name | Type | Required | Description |
|-------------|-----------------------------|----------|-------------|
| status | string | False | |
| allow | array[string] | False | |
| accept-post | accept-post | False | |
| permissions | array[string] | False | |
| accept-put | accept-put | False | |

type_astra_link

| Name | Type | Required | Description |
|--------------|------------------------------|----------|-------------|
| rel | string | True | |
| href | string | True | |
| type | string | False | |
| targetSchema | targetSchema | False | |
| title | string | False | |
| hints | hints | False | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Notification

Notification overview

The Notification API provides per-user access to events with a notification destination.

List all notifications

GET /accounts/{account_id}/core/v1/notifications

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> • example: id,summary |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> <ul style="list-style-type: none"> • example: 4 |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|---|
| count | string | query | False | <p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> • example: true |
| continue | | query | False | <p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: notification_1.3_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-notifications",
  "version": "1.3",
  "items": [
    [
      "4f8273ee-883d-47f0-a512-9e27b6285f20",
      "Discovering Applications in Cluster"
    ],
    [
      "1cdd26dc-5eb0-4cf4-a0c1-39a9b83720e1",
      "Application Discovered"
    ],
    [
      "275a8c6f-ebf6-4d10-b671-77d1b8c7c0a6",
      "Application Discovery Failed"
    ],
    [
      "4325f971-ca9c-4a52-bc9a-da6ec62e6bfe",
      "Application Discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

data

JSON object containing additional event-specific information.

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| ttl | number | False | JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted. |
| isAcknowledgeable | string | False | JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none">"true" - The banner is dismissible"false" - The banner is not dismissible |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

notification_1.3_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-notification" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 127 • Defined regex is: <code>"^[a-z](\.[a-z])+\$"</code> |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| sequenceCount | number | True | JSON number containing a sequence count. The number is incremented by the system each time a new event is received. |
| summary | string | True | JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 79 |
| eventTime | string | True | JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| source | string | True | JSON string containing the lowercase name of the service generating an event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 19 • Defined regex is: <code>"^[a-z-]*\$"</code> |
| resourceID | string | True | JSON string containing the resource ID associated with an event. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| additionalResourceIDs | array[string] | True | <p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. Although the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events. If no additional resources are associated with the event, the array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| resourceType | string | True | <p>JSON string containing the media type of the resource associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 4 • Maximum length: 79 • Defined regex is: <code>"^application/astra-([a-zA-Z])+"</code> |
| correlationID | string | True | <p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt. • "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733. |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| class | string | True | <p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue. |
| description | string | True | <p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |
| descriptionURL | string | False | <p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| correctiveAction | string | False | <p>JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |
| correctiveActionURL | string | False | <p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| visibility | array[string] | False | <p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| destinations | array[string] | False | <p>JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional. Defined values are:</p> <ul style="list-style-type: none"> • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event. |
| resourceURI | string | False | <p>JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| resourceCollectionURL | array[string] | False | <p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| resourceMethod | string | False | <p>JSON string containing the HTTP method invoked. Included only for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation |
| resourceMethodResult | string | False | <p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[1-5][0-9]{2}\$"</code> |
| userID | string | False | <p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------|-------------------------------------|----------|--|
| accountID | string | False | JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema |
| data | data | False | JSON object containing additional event-specific information. |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a notification

GET /accounts/{account_id}/core/v1/notifications/{notification_id}

Returns the stored Notification API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| notification_id | string | path | True | ID of the notification collection to list |

Response

Status: 200, Returns the stored Notification API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-notification" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a dot notation (.) hierarchical name for the event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 127 • Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>" |
| sequenceCount | number | True | JSON number containing a sequence count. The number is incremented by the system each time a new event is received. |
| summary | string | True | JSON string containing the short-form (less than 40 characters) summary of the event. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 79 |
| eventTime | string | True | JSON string containing a timestamp that indicates when an event occurred. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| source | string | True | <p>JSON string containing the lowercase name of the service generating an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 19 • Defined regex is: <code>"^[a-z-]*\$"</code> |
| resourceID | string | True | <p>JSON string containing the resource ID associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| additionalResourceIDs | array[string] | True | <p>JSON array of JSON strings, each containing a resource ID of an additional resource associated with the event. Although the "resourceID" field contains the primary resource associated with this event, this field contains any number of additional resource IDs to be associated with the same events. If no additional resources are associated with the event, the array will be empty. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| resourceType | string | True | <p>JSON string containing the media type of the resource associated with an event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 4 • Maximum length: 79 • Defined regex is: <code>"^application/astra-([a-zA-Z])+\$"</code> |
| correlationID | string | True | <p>JSON string containing a UUIDv4 correlation ID that allows related events to be grouped together. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of an event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to allow it to be matched up. • "indeterminate" - Indicates that the severity cannot be determined. • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733). • "warning" - Indicates the detection of a potential or impending service affecting fault, before any significant effects have been felt. • "critical" - Indicates that a service affecting condition has occurred and immediate corrective action is required. Definitions for "cleared", "indeterminate", "warning" and "critical" are based on definitions in clause 8.1.2.3 of CCITT X.733. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| class | string | True | <p>JSON string containing one of the following values that indicate the class of the event. Defined values are:</p> <ul style="list-style-type: none"> • "system" - The event is related to an internal event or request. • "user" - The event is related to a user-initiated event or request. • "security" - The event is related to a security issue. |
| description | string | True | <p>JSON string containing a long-form descriptive text about the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |
| descriptionURL | string | False | <p>JSON string containing the URL that enables and links a button in the banner to external documentation. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| correctiveAction | string | False | <p>JSON string containing a long-form descriptive text about what corrective action should be taken in response to the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 1023 |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| correctiveActionURL | string | False | <p>JSON string containing the URL that links a button in the banner to a page within the UI to fix the issue. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| visibility | array[string] | False | <p>JSON array of JSON strings, each indicating an RBAC role permitted to view the event. Roles are OR-defined together. Optional. If omitted, a user with any RBAC role can view the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| destinations | array[string] | False | <p>JSON array of JSON strings, each indicating an additional destination for the event. These allow a service to provide hints about where an event must be routed in addition to the Activity service's activity log. Optional. Defined values are:</p> <ul style="list-style-type: none"> • "notification" - The event is marked as a notification, and will be accessible through the notifications API endpoint. • "banner" - The event is marked as a banner. • "support" - The event is marked as a support-related event. |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|--|
| resourceURI | string | False | <p>JSON string containing the URI associated with the event. Only included for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| resourceCollectionURL | array[string] | False | <p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the event. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| resourceMethod | string | False | <p>JSON string containing the HTTP method invoked. Included only for events related to API operations. Defined values are:</p> <ul style="list-style-type: none"> • "options" - OPTIONS API operation • "post" - POST API operation • "get" - GET API operation • "put" - PUT API operation • "delete" - DELETE API operation |

| Name | Type | Required | Description |
|----------------------|-------------------------------------|----------|--|
| resourceMethodResult | string | False | <p>JSON string containing the result of the HTTP method invoked. Only included for events related to the API operations. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[1-5][0-9]{2}\$"</code> |
| userID | string | False | <p>JSON string containing the user ID associated with an event. Only included for events associated with the user-initiated actions. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| accountID | string | False | <p>JSON string containing the account ID associated with an event. Only included for events associated with an account. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| data | data | False | <p>JSON object containing additional event-specific information.</p> |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-notification",
  "version": "1.3",
  "id": "03c645d6-75f0-59b0-95f2-862ae344ea27",
  "name": "astra.app.discovery.failed",
  "sequenceCount": 48923,
  "summary": "Application Discovery Failed",
  "eventTime": "2020-08-06T12:24:51.846543Z",
  "source": "composite-compute",
  "resourceID": "f670bf11-8850-44bd-b330-815af6186a06",
  "additionalResourceIDs": [
    "84dfef99-b7b2-46d2-9021-0a1a9a5df1d6",
    "abb32003-07b9-49b1-9938-1cf6d2f33566"
  ],
  "resourceType": "application/astra-app",
  "correlationID": "3c603442-cfca-4af9-9f1b-40dde5c7a806",
  "severity": "warning",
  "class": "user",
  "description": "Discovering the application 'mysql' was unsuccessful.
K8s error 442. Application marked in state 'error'.",
  "destinations": [
    "notification"
  ],
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/managedClusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/apps/f670bf11-8850-44bd-b330-815af6186a06",
  "resourceCollectionURL": [
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06",
    "https://www.astra.io/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06"
  ],
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "accountID": "f126d214-bccf-4558-86b4-2137a41e734f",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  }
}
```

```
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

data

JSON object containing additional event-specific information.

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| ttl | number | False | JSON number indicating the number of seconds (since the eventTime) that the event will be retained. This field is only included when an event is automatically deleted after the specified number of seconds. When deleted, if the event has a notification destination, all associated notifications are also deleted. When deleted, if the event has a banner destination, the banner is also removed. The absence of this field (or a value of "0") means that an event will not be automatically deleted. |
| isAcknowledgeable | string | False | JSON string indicating whether the banner is dismissible. Defined values are: <ul style="list-style-type: none">"true" - The banner is dismissible"false" - The banner is not dismissible |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Package

Package overview

The Package API represents installable software packages.

Create a new package

POST /accounts/{account_id}/core/v1/packages

Indicates desired values for the Package API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |

Request Body

Indicates desired values for the Package API resource to be created.

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-package" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| packageName | string | True | JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 31 Example values are: <ul style="list-style-type: none"> "acc" "acs" "trident" |
| packageVersion | string | True | JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> Conforms to the SemVer Schema |
| packageType | string | True | JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> "install" "patch" |
| bundleName | array[string] | False | JSON array of JSON strings containing the name of the bundle that the package is contained in. |

| Name | Type | Required | Description |
|--------------------|---------------------|----------|--|
| severityLevel | string | True | <p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches |
| images | array[images] | False | JSON array of JSON objects, each containing a Docker image that is part of the package. |
| artifacts | array[artifacts] | False | JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package. |
| files | array[files] | False | JSON array of JSON objects, each representing a non-image artifact associated with this package. |
| upgradableVersions | upgradableVersions | False | JSON object containing the minimum and maximum versions that can be upgraded to the package version. |
| dependencies | array[dependencies] | False | JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

Example request

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "storage-provider",
      "imageTag": "1.3.116",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e3364456781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "storage-backend-metrics",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e3364456781a161f1be239853dae33deaf
c"
    },
    {
      "imagePath": "/globalcicd/acc",
      "imageName": "credentials",
      "imageTag": "1.3.45",
      "imageDigest":
"sha256:2e04d178815537b0ad8c322445654e33642da781a161f1be239853dae33deaf
c"
    }
  ],
  "files": [
    {
      "fileName": "astra_control_center_min.yaml",
      "fileIdentifier": "astra_min",
      "fileMediaType": "application/x-yaml",
      "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZWRQgZmlsZSBjb250ZW50"
    }
  ],
  "dependencies": [
    {
```

```

    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.22"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]
}

```

Response

Status: 201, Returns the newly created package resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-package" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| packageName | string | True | JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 Example values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" |
| packageVersion | string | True | JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| packageType | string | True | JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> • "install" • "patch" |
| bundleName | array[string] | False | JSON array of JSON strings containing the name of the bundle that the package is contained in. |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| severityLevel | string | True | <p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches |
| packageState | string | True | <p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> • "verifying" - The package is in the process of being validated • "corrupt" - The package is corrupt • "incomplete" - The package is missing elements • "available" - All elements associated with the package are available and the package is ready for use |

| Name | Type | Required | Description |
|-------------------------|---|----------|--|
| packageStateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the State Transition Schema |
| packageStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| images | array[images] | False | <p>JSON array of JSON objects, each containing a Docker image that is part of the package.</p> |
| artifacts | array[artifacts] | False | <p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p> |
| files | array[files] | False | <p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p> |
| upgradableVersions | upgradableVersions | False | <p>JSON object containing the minimum and maximum versions that can be upgraded to the package version.</p> |

| Name | Type | Required | Description |
|--------------|---------------------------------------|----------|---|
| dependencies | array[dependencies] | False | JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "id": "54edc2b3-18c5-5371-904b-ebcd04d88bdc",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "packageState": "available",
  "packageStateTransitions": [
    {
      "from": "verifying",
      "to": [
        "corrupt",
        "incomplete",
        "available"
      ]
    },
    {
      "from": "corrupt",
      "to": [
        "incomplete",
        "available"
      ]
    },
    {
      "from": "incomplete",
      "to": [
        "corrupt",
        "available"
      ]
    },
    {
      "from": "available",
      "to": [
        "corrupt",
        "available"
      ]
    }
  ],
  "packageStateDetails": [],
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",

```

```

    "imageName": "storage-provider",
    "imageTag": "1.3.116",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "storage-backend-metrics",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "credentials",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  }
],
"files": [
  {
    "fileName": "astra_control_center_min.yaml",
    "fileIdentifier": "astra_min",
    "fileMediaType": "application/x-yaml",
    "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZXNzZWQgZmlsZSBjb250ZW50"
  }
],
"dependencies": [
  {
    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.20"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]

```

```

    ],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2022-10-06T20:58:16.305662Z",
      "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
      "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```


Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

dependsOnImages

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| imagePath | string | True | JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 1023 |
| imageName | string | True | JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| imageTag | string | True | JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 31 |

images

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| imageName | string | True | JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|-----------------|--|----------|--|
| imagePath | string | True | <p>JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| imageTag | string | True | <p>JSON string representing the tag/version of this image.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| imageDigest | string | True | <p>JSON string representing the digest of this image.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code> |
| dependsOnImages | array[dependsOnImages] | False | <p>JSON array of JSON objects describing the images required to install or upgrade the current image.</p> |

dependsOnComponents

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| componentName | string | True | JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| versions | array[string] | True | JSON array of JSON strings defining the component version required to install the current image. |

artifacts

| Name | Type | Required | Description |
|--------------------|--------|----------|---|
| artifactName | string | True | JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| artifactIdentifier | string | True | JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |

| Name | Type | Required | Description |
|---------------------|--|----------|---|
| artifactPath | string | True | JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| artifactVersion | string | False | JSON string containing the version of that artifact, if provided. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema • Minimum length: 1 • Maximum length: 31 |
| dependsOnComponents | array[dependsOnComponents] | False | JSON array of JSON objects describing the installed components required to install/upgrade the current image. |

files

| Name | Type | Required | Description |
|----------|--------|----------|---|
| fileName | string | True | JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| fileIdentifier | string | True | <p>JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| fileMediaType | string | True | <p>JSON string containing the file media-type. Defined values are any media type defined by IANA. In addition, application/x-yaml or application/yaml for yaml files is supported.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 211 |
| fileContents | string | True | <p>JSON string containing the file content. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc? |

upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| minVersion | string | False | JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| maxVersion | string | False | JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

dependencies

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| componentName | string | True | JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| componentMinVersion | string | False | JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| componentMaxVersion | string | False | JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| additionalDetails | additionalDetails | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all packages

GET `/accounts/{account_id}/core/v1/packages`

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: id,packageName ,packageVersion ,softwareType |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: package_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-packages",
  "version": "1.0",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "acc",
      "22.01.0",
      "install"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "acc",
      "22.01.1",
      "patch"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

dependsOnImages

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| imagePath | string | True | JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globaliccd/acc Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 1023 |
| imageName | string | True | JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| imageTag | string | True | JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

images

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| imageName | string | True | JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| imagePath | string | True | JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| imageTag | string | True | JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|-----------------|--|----------|--|
| imageDigest | string | True | JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code> |
| dependsOnImages | array[dependsOnImages] | False | JSON array of JSON objects describing the images required to install or upgrade the current image. |

dependsOnComponents

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| componentName | string | True | JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> "acc" "acs" "trident" "kubernetes" |
| versions | array[string] | True | JSON array of JSON strings defining the component version required to install the current image. |

artifacts

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| artifactName | string | True | JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 |

| Name | Type | Required | Description |
|---------------------|--|----------|--|
| artifactIdentifier | string | True | <p>JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| artifactPath | string | True | <p>JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| artifactVersion | string | False | <p>JSON string containing the version of that artifact, if provided. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema • Minimum length: 1 • Maximum length: 31 |
| dependsOnComponents | array[dependsOnComponents] | False | <p>JSON array of JSON objects describing the installed components required to install/upgrade the current image.</p> |

files

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| fileName | string | True | JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| fileIdentifier | string | True | JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| fileMediaType | string | True | JSON string containing the file media-type. Defined values are any media type defined by IANA . In addition, application/x-yaml or application/yaml for yaml files is supported. <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 211 |
| fileContents | string | True | JSON string containing the file content. Defined values are: <ul style="list-style-type: none"> • Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc? |

upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| minVersion | string | False | JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| maxVersion | string | False | JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

dependencies

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| componentName | string | True | JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| componentMinVersion | string | False | JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| componentMaxVersion | string | False | JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

package_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-package" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| packageName | string | True | JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 Example values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" |
| packageVersion | string | True | JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| packageType | string | True | JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> • "install" • "patch" |
| bundleName | array[string] | False | JSON array of JSON strings containing the name of the bundle that the package is contained in. |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| severityLevel | string | True | <p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches |
| packageState | string | True | <p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> • "verifying" - The package is in the process of being validated • "corrupt" - The package is corrupt • "incomplete" - The package is missing elements • "available" - All elements associated with the package are available and the package is ready for use |

| Name | Type | Required | Description |
|-------------------------|-----------------------------------|----------|---|
| packageStateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the State Transition Schema |
| packageStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| images | array[images] | False | <p>JSON array of JSON objects, each containing a Docker image that is part of the package.</p> |
| artifacts | array[artifacts] | False | <p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p> |
| files | array[files] | False | <p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p> |

| Name | Type | Required | Description |
|--------------------|---------------------------------------|----------|---|
| upgradableVersions | upgradableVersions | False | JSON object containing the minimum and maximum versions that can be upgraded to the package version. |
| dependencies | array[dependencies] | False | JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a package

GET /accounts/{account_id}/core/v1/packages/{package_id}

Returns the stored Package API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| package_id | string | path | True | ID of the package collection to list |

Response

Status: 200, Returns the stored Package API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-package" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |

| Name | Type | Required | Description |
|----------------|---------------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| packageName | string | True | JSON string containing the package name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 Example values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" |
| packageVersion | string | True | JSON string containing the SemVer of the package. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| packageType | string | True | JSON string containing the package type, indicating whether this is a full installation package or a patch. Defined values are: <ul style="list-style-type: none"> • "install" • "patch" |
| bundleName | array[string] | False | JSON array of JSON strings containing the name of the bundle that the package is contained in. |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| severityLevel | string | True | <p>JSON string describing the severity level of this patch or installation. Defined values are:</p> <ul style="list-style-type: none"> • "recommended" - Installation is recommended - Default value • "critical" - Installation is strongly recommended to address critical bug fixes and/or security patches |
| packageState | string | True | <p>JSON string containing a value indicating the operational state of the package. After verification of the package and after import, the state will indicate "complete". Otherwise, the state will indicate "incomplete". Defined values are:</p> <ul style="list-style-type: none"> • "verifying" - The package is in the process of being validated • "corrupt" - The package is corrupt • "incomplete" - The package is missing elements • "available" - All elements associated with the package are available and the package is ready for use |

| Name | Type | Required | Description |
|-------------------------|---|----------|--|
| packageStateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state and the "to" value is an array of permitted destination states.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the State Transition Schema |
| packageStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| images | array[images] | False | <p>JSON array of JSON objects, each containing a Docker image that is part of the package.</p> |
| artifacts | array[artifacts] | False | <p>JSON array of JSON objects describing the additional artifacts (binaries and others) associated with this package.</p> |
| files | array[files] | False | <p>JSON array of JSON objects, each representing a non-image artifact associated with this package.</p> |
| upgradableVersions | upgradableVersions | False | <p>JSON object containing the minimum and maximum versions that can be upgraded to the package version.</p> |

| Name | Type | Required | Description |
|--------------|---------------------------------------|----------|---|
| dependencies | array[dependencies] | False | JSON array of JSON objects describing what minimum version of a given dependency is required for this package to be installed |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. |

Example response

```
{
  "type": "application/astra-package",
  "version": "1.0",
  "id": "54edc2b3-18c5-5371-904b-ebcd04d88bdc",
  "packageName": "acc",
  "packageVersion": "22.09.1",
  "packageType": "patch",
  "packageState": "available",
  "packageStateTransitions": [
    {
      "from": "verifying",
      "to": [
        "corrupt",
        "incomplete",
        "available"
      ]
    },
    {
      "from": "corrupt",
      "to": [
        "incomplete",
        "available"
      ]
    },
    {
      "from": "incomplete",
      "to": [
        "corrupt",
        "available"
      ]
    },
    {
      "from": "available",
      "to": [
        "corrupt",
        "available"
      ]
    }
  ],
  "packageStateDetails": [],
  "severityLevel": "recommended",
  "images": [
    {
      "imagePath": "/globalcicd/acc",

```

```

    "imageName": "storage-provider",
    "imageTag": "1.3.116",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "storage-backend-metrics",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  },
  {
    "imagePath": "/globalcid/acc",
    "imageName": "credentials",
    "imageTag": "1.3.45",
    "imageDigest":
"sha256:2e04d178815537b0ad8c3224e8754e33642da781a161f1be239853dae33deaf
c"
  }
],
"files": [
  {
    "fileName": "astra_control_center_min.yaml",
    "fileIdentifier": "astra_min",
    "fileMediaType": "application/x-yaml",
    "fileContents":
"VGhpcyBpcyBzdXBwb3NlZCB0byBiZSBhIGNvbXBvZXRzZXNzZWQgZmlsZSBjb250ZW50"
  }
],
"dependencies": [
  {
    "componentName": "acc",
    "componentMinVersion": "22.04.29"
  },
  {
    "componentName": "kubernetes",
    "componentMinVersion": "v1.19.7",
    "componentMaxVersion": "v1.20"
  },
  {
    "componentName": "trident",
    "componentMinVersion": "v21.01.1"
  }
]

```

```

    ],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2022-10-06T20:58:16.305662Z",
      "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
      "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
    }
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

dependsOnImages

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| imagePath | string | True | JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalicd/acc Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 1023 |
| imageName | string | True | JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| imageTag | string | True | JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

images

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| imageName | string | True | JSON string containing the Docker image name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| imagePath | string | True | JSON string containing the path to this Docker image. It must not contain the name of the registry, only the absolute path from root to image. Example: /globalcid/acc Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| imageTag | string | True | JSON string representing the tag/version of this image. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|-----------------|--|----------|--|
| imageDigest | string | True | JSON string representing the digest of this image. Defined values are: <ul style="list-style-type: none"> Defined regex is: <code>"^(sha256:)[0-9a-f]{64}\$"</code> |
| dependsOnImages | array[dependsOnImages] | False | JSON array of JSON objects describing the images required to install or upgrade the current image. |

dependsOnComponents

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| componentName | string | True | JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> "acc" "acs" "trident" "kubernetes" |
| versions | array[string] | True | JSON array of JSON strings defining the component version required to install the current image. |

artifacts

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| artifactName | string | True | JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 |

| Name | Type | Required | Description |
|---------------------|--|----------|--|
| artifactIdentifier | string | True | <p>JSON string containing an identifier for this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| artifactPath | string | True | <p>JSON string containing the path to this artifact from the root of a known Astra Control Center Data Store/location. Example: /vmware/1.0/ Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 1023 |
| artifactVersion | string | False | <p>JSON string containing the version of that artifact, if provided. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema • Minimum length: 1 • Maximum length: 31 |
| dependsOnComponents | array[dependsOnComponents] | False | <p>JSON array of JSON objects describing the installed components required to install/upgrade the current image.</p> |

files

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| fileName | string | True | JSON string containing the file name. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| fileIdentifier | string | True | JSON string containing an identifier of this file. Between versions of the same package type, the file name might change but the identifier usually stays the same. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |
| fileMediaType | string | True | JSON string containing the file media-type. Defined values are any media type defined by IANA . In addition, application/x-yaml or application/yaml for yaml files is supported. <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 211 |
| fileContents | string | True | JSON string containing the file content. Defined values are: <ul style="list-style-type: none"> • Conforms to the Base64 Schema FIXME - How do we specify that this is compressed? What algorithm ,etc? |

upgradableVersions

JSON object containing the minimum and maximum versions that can be upgraded to the package version.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| minVersion | string | False | JSON string describing the minimum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| maxVersion | string | False | JSON string describing the maximum version that can be upgraded to the package version. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

dependencies

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| componentName | string | True | JSON string describing the name of the component. Defined values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| componentMinVersion | string | False | JSON string describing the minimum version required of that component. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| componentMaxVersion | string | False | JSON string describing the maximum version required of that component. Defined values are: <ul style="list-style-type: none"> Conforms to the SemVer Schema |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete a package

DELETE /accounts/{account_id}/core/v1/packages/{package_id}

Removes the specified Package API resource.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| package_id | string | path | True | ID of the package collection to list |

Response

Status: 204, Indicates if the package resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Role binding

Role binding overview

The Role Binding API describes the relationships between the user-account pairs, or group-account pairs, along with the sets of permissions they are granted (roles).

Create a new role binding for a group

POST /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |

Request Body

Indicates desired values for the Role Binding API resource to be created.

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| userID | string | False | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|------|--------|----------|---|
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> "user" "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "group",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the role bindings for a group

GET /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: accountID,userI D,role |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: roleBinding_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

roleBinding_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| principalType | string | True | <p>JSON string representing the type of the principal this binding is associated with. Defined values are:</p> <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [|

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a role binding for a group

GET

/accounts/{account_id}/core/v1/groups/{group_id}/roleBindings/{roleBinding_id}

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a role binding for a group

PUT /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings/{roleBinding_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| userID | string | False | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | False | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

Response

Status: 204, Indicates if the roleBinding resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a role binding for a group

DELETE

/accounts/{account_id}/core/v1/groups/{group_id}/roleBindings/{roleBinding_id}

Removes the specified Role Binding API resource.

Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 204, Indicates if the roleBinding resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new role binding for a user in a group

POST

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |

Request Body

Indicates desired values for the Role Binding API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| userID | string | False | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> "user" "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the role bindings for a user in a group

GET /accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: accountID,userI D,role |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: roleBinding_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

roleBinding_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | True | JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [|

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a role binding for a user in a group

GET

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/roleBindings/{roleBinding_id}

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a role binding for a user in a group

PUT

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/roleBindings/{roleBinding_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| userID | string | False | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | False | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

Response

Status: 204, Indicates if the roleBinding resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a role binding for a user in a group

DELETE

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/roleBindings/{roleBinding_id}

Removes the specified Role Binding API resource.

Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 204, Indicates if the roleBinding resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new role binding

POST /accounts/{account_id}/core/v1/roleBindings

Indicates desired values for the Role Binding API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates desired values for the Role Binding API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| userID | string | False | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> "user" "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```

{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all role bindings

GET /accounts/{account_id}/core/v1/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: accountID,userI D,role |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: roleBinding_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

roleBinding_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| principalType | string | True | <p>JSON string representing the type of the principal this binding is associated with. Defined values are:</p> <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [|

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a role binding

GET /accounts/{account_id}/core/v1/roleBindings/{roleBinding_id}

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | True | JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a role binding

PUT /accounts/{account_id}/core/v1/roleBindings/{roleBinding_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| userID | string | False | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | False | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

Response

Status: 204, Indicates if the roleBinding resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a role binding

DELETE /accounts/{account_id}/core/v1/roleBindings/{roleBinding_id}

Removes the specified Role Binding API resource.

Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 204, Indicates if the roleBinding resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new role binding for a user

POST /accounts/{account_id}/core/v1/users/{user_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |

Request Body

Indicates desired values for the Role Binding API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| userID | string | False | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> "user" "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```

{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the role bindings for a user

GET /accounts/{account_id}/core/v1/users/{user_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: accountID,userID,role |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: roleBinding_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

roleBinding_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| principalType | string | True | <p>JSON string representing the type of the principal this binding is associated with. Defined values are:</p> <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [|

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a role binding for a user

GET /accounts/{account_id}/core/v1/users/{user_id}/roleBindings/{roleBinding_id}

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a role binding for a user

PUT /accounts/{account_id}/core/v1/users/{user_id}/roleBindings/{roleBinding_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| userID | string | False | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | False | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

Response

Status: 204, Indicates if the roleBinding resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a role binding for a user

DELETE

/accounts/{account_id}/core/v1/users/{user_id}/roleBindings/{roleBinding_id}

Removes the specified Role Binding API resource.

Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 204, Indicates if the roleBinding resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new role binding for a group associated with a user

POST

/accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}/roleBindings

Indicates desired values for the Role Binding API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the containing group resource |

Request Body

Indicates desired values for the Role Binding API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| userID | string | False | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | JSON string containing a group resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ]
}
```

Response

Status: 201, Returns the newly created roleBinding resource in the JSON response body.

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> "user" "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```

{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "group",
  "userID": "00000000-0000-0000-0000-000000000000",
  "groupID": "6f7f5bb3-1320-4861-bd8a-d3a4106d36b1",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the role bindings for a group associated with a user

GET /accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}/roleBindings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the containing group resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: accountID,userI D,role |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: roleBinding_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-roleBindings",
  "version": "1.1",
  "items": [
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "4c27d25a-9edb-4e85-9438-48dc8e917231",
      "viewer"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "dc40a13f-e9b3-4cf5-900f-58de32174390",
      "owner"
    ],
    [
      "9fd87309-067f-48c9-a331-527796c14cf3",
      "c38abd8d-7dae-4659-8382-2e74a58738ba",
      "owner"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

roleBinding_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|--|
| principalType | string | True | <p>JSON string representing the type of the principal this binding is associated with. Defined values are:</p> <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| accountID | string | True | JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |
| role | string | True | JSON string containing one of the four defined roles. Defined values are: <ul style="list-style-type: none">• "viewer"• "member"• "admin"• "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*"] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": [|

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a role binding for a group associated with a user

GET

/accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}/roleBindings/{roleBinding_id}

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the containing group resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 200

Returns the stored Role Binding API resource in the JSON response body. If the request is against /accounts/{account_id}/core/v1/users/{user_id}/roleBindings endpoint, only roleBinding resources where the user ID matches the user ID in the request URL will be permitted to be read. If the request is against /accounts/{account_id}/core/v1/groups/{group_id}/roleBindings, only roleBinding resources where the group ID matches the group ID in the request URL will be permitted to be read.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-roleBinding" |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| principalType | string | True | JSON string representing the type of the principal this binding is associated with. Defined values are: <ul style="list-style-type: none"> • "user" • "group" For principalType "user", a non-nil user ID is required. For principalType "group", a non-nil group ID is required. |
| userID | string | True | JSON string containing a user resource ID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| groupID | string | True | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | True | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|--|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: <ul style="list-style-type: none"> • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "id": "a198f052-5cd7-59d3-9f27-9ea32a21fbca",
  "principalType": "user",
  "userID": "4c27d25a-9edb-4e85-9438-48dc8e917231",
  "groupID": "00000000-0000-0000-0000-000000000000",
  "accountID": "9fd87309-067f-48c9-a331-527796c14cf3",
  "role": "viewer",
  "roleConstraints": [
    "*"
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a role binding for a group associated with a user

PUT

/accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}/roleBindings/{roleBinding_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the containing group resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-roleBinding" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| userID | string | False | <p>JSON string containing a user resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| groupID | string | False | <p>JSON string containing a group resource ID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema If not specified on create, a nil UUID will be used. Only userID or groupID can be specified on create. |
| accountID | string | False | <p>JSON string containing the ID of an account resource. For create, this must match the account ID in the request URI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| role | string | True | <p>JSON string containing one of the four defined roles. Defined values are:</p> <ul style="list-style-type: none"> • "viewer" • "member" • "admin" • "owner" |

| Name | Type | Required | Description |
|-----------------|---------------|----------|---|
| roleConstraints | array[string] | False | <p>JSON array of JSON strings specifying the scope of the role assignment. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to Astra Role Constraints Schema. If not specified on create, the value will be set to an array of size 1 containing string "*" representing "full scope". If not specified on update, the value will be preserved without modification. An empty array represents "no scope". Examples: • = Allow access to any resource: "roleConstraints": ["*"] • = deny access to all resources: "roleConstraints": [] • = Allow access to a specific namespace resource only: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'"] • = Allow access to a specific namespace and everything under it: "roleConstraints": ["namespaces:id='6fa2f917-f730-41b8-9c15-17f531843b31'.*' "] • = Allow access to all namespaces labelled "dev" in any cluster in any cloud, and everything under them: "roleConstraints": ["namespaces:kubernetesLabels='dev.example.com/appname=dev'"] |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-roleBinding",
  "version": "1.1",
  "role": "member",
  "roleConstraints": [
    "namespaces:id='c832e1dc-d7c3-464e-9c62-47bf91c46ce8'"
  ]
}
```

Response

Status: 204, Indicates if the roleBinding resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a role binding for a group associated with a user

DELETE

/accounts/{account_id}/core/v1/users/{user_id}/groups/{group_id}/roleBindings/{roleBinding_id}

Removes the specified Role Binding API resource.

Side Effects

- Deleting the last role-binding associated with a user with authProvider as 'local', or 'cloud-central' (not ldap) triggers the deletion of the user.

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| group_id | string | path | True | ID of the containing group resource |
| roleBinding_id | string | path | True | ID of the roleBinding collection to list |

Response

Status: 204, Indicates if the roleBinding resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Schedule

Schedule overview

The Schedule API allows various scheduled data protection operations to be defined.

Create a new schedule for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/schedules

Indicates desired values for the Schedule API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |

Request Body

Indicates desired values for the Schedule API resource to be created.

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-schedule" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| name | string | True | JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| enabled | string | False | JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> • "true" - The schedule is active • "false" - The schedule is not active. If not specified, the default value is "true". |
| granularity | string | True | JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> • "hourly" • "daily" • "weekly" • "monthly" • "custom" |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| minute | string | False | <p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules. |
| hour | string | False | <p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"</code> This field is present if granularity is set to "daily", "weekly", or "monthly". |
| dayOfWeek | string | False | <p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[0-7]\$"</code> This field is only present if granularity is set to "weekly". |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| dayOfMonth | string | False | <p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]"</code> This field is only present if granularity is set to "monthly". |
| recurrenceRule | string | False | <p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p> |
| snapshotRetention | string | True | <p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are:</p> <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| backupRetention | string | True | <p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code> |
| bucketID | string | False | <p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicate | string | False | <p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false". |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

Response

Status: 201, Returns the newly created schedule resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-schedule" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| enabled | string | True | JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true". |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| granularity | string | True | <p>JSON string indicating the granularity of the schedule. Defined values are:</p> <ul style="list-style-type: none"> • "hourly" • "daily" • "weekly" • "monthly" • "custom" |
| minute | string | True | <p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[0-9][1-5][0-9]\$"</code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules. |
| hour | string | False | <p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$"</code> This field is present if granularity is set to "daily", "weekly", or "monthly". |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| dayOfWeek | string | False | <p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[0-7]\$" This field is only present if granularity is set to "weekly".</code> |
| dayOfMonth | string | False | <p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[1-9] [1-2][0-9] [3][0-1]\$" This field is only present if granularity is set to "monthly".</code> |
| recurrenceRule | string | False | <p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p> |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| snapshotRetention | string | True | <p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code> |
| backupRetention | string | True | <p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code> |
| bucketID | string | False | <p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-----------|----------------------------|----------|--|
| replicate | string | False | <p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication <p>If not specified, the default value is "false".</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema <p>If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</p> |

Example response

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "id": "49cbc480-5f7d-51e2-8f30-52b9a83a03b1",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the schedules for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/schedules

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name,granularity |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: schedule_1.3_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-schedules",
  "version": "1.3",
  "items": [
    [
      "0d6d20d6-8b7c-498a-b57b-5734210c209a",
      "Backup Schedule",
      "monthly"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```


Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

schedule_1.3_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-schedule" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2"• "1.3" |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| enabled | string | True | JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true". |
| granularity | string | True | JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> • "hourly" • "daily" • "weekly" • "monthly" • "custom" |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| minute | string | True | <p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-9][1-5][0-9]\$" This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules.</code> |
| hour | string | False | <p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$" This field is present if granularity is set to "daily", "weekly", or "monthly".</code> |
| dayOfWeek | string | False | <p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-7]\$" This field is only present if granularity is set to "weekly".</code> |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| dayOfMonth | string | False | <p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]\$" This field is only present if granularity is set to "monthly".</code> |
| recurrenceRule | string | False | <p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p> |
| snapshotRetention | string | True | <p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*))\$" This field is only present if granularity is set to "custom".</code> |

| Name | Type | Required | Description |
|-----------------|--------|----------|--|
| backupRetention | string | True | <p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code> |
| bucketID | string | False | <p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicate | string | False | <p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication. If not specified, the default value is "false". |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a schedule

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/schedules/{schedule_id}

Returns the stored Schedule API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| schedule_id | string | path | True | ID of the schedule collection to list |

Response

Status: 200, Returns the stored Schedule API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-schedule" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2""1.3" |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| enabled | string | True | JSON string indicating if a schedule is active. Defined values are: <ul style="list-style-type: none"> • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true". |
| granularity | string | True | JSON string indicating the granularity of the schedule. Defined values are: <ul style="list-style-type: none"> • "hourly" • "daily" • "weekly" • "monthly" • "custom" |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| minute | string | True | <p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-9][1-5][0-9]\$" </code> This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules. |
| hour | string | False | <p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$" </code> This field is present if granularity is set to "daily", "weekly", or "monthly". |
| dayOfWeek | string | False | <p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-7]\$" </code> This field is only present if granularity is set to "weekly". |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| dayOfMonth | string | False | <p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]"</code> This field is only present if granularity is set to "monthly". |
| recurrenceRule | string | False | <p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p> |
| snapshotRetention | string | True | <p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are:</p> <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code> |

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| backupRetention | string | True | <p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*)\$"</code> |
| bucketID | string | False | <p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicate | string | False | <p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false". |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "id": "49cbc480-5f7d-51e2-8f30-52b9a83a03b1",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a schedule

PUT /accounts/{account_id}/k8s/v1/apps/{app_id}/schedules/{schedule_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| app_id | string | path | True | ID of the containing app resource |
| schedule_id | string | path | True | ID of the schedule collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-schedule" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name of the schedule. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| enabled | string | False | <p>JSON string indicating if a schedule is active. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The schedule is active • "false" - The schedule is not active If not specified, the default value is "true". |
| granularity | string | False | <p>JSON string indicating the granularity of the schedule. Defined values are:</p> <ul style="list-style-type: none"> • "hourly" • "daily" • "weekly" • "monthly" • "custom" |
| minute | string | False | <p>JSON string containing a numeric value indicating the minute of the hour (0 - 59) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> • Defined regex is: "<code>^[0-9][1-5][0-9]\$</code>" This field is present if granularity is set to "hourly", "daily", "weekly", or "monthly". It will be returned with value "0" for custom schedules. |

| Name | Type | Required | Description |
|------------|--------|----------|--|
| hour | string | False | <p>JSON string containing a numeric value indicating the hour of the day (0 - 23) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-9][1][0-9][2][0-3]\$" </code> This field is present if granularity is set to "daily", "weekly", or "monthly". |
| dayOfWeek | string | False | <p>JSON string containing a numeric value indicating the day of the week (0-7) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[0-7]\$" </code> This field is only present if granularity is set to "weekly". |
| dayOfMonth | string | False | <p>JSON string containing a numeric value indicating the day of the month (1-31) to execute the schedule. Defined values are:</p> <ul style="list-style-type: none"> Defined regex is: <code>"^[1-9][1-2][0-9][3][0-1]\$" </code> This field is only present if granularity is set to "monthly". |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| recurrenceRule | string | False | <p>JSON string containing an RFC-5545 Section 3.8.5.3. Recurrence Rule. For the DTSTART parameter, only UTC timestamps (denoted by the "Z" suffix) are supported, and only timestamps before the current time are supported. For the RECUR rule parts, "FREQ" and "INTERVAL" are the only rule parts supported. For the FREQ rule part, "MINUTELY" and "HOURLY" are the only values supported. This field is only present if granularity is set to "custom".</p> |
| snapshotRetention | string | True | <p>JSON string containing a positive numeric value indicating how many snapshots to retain. Zero indicates that snapshots should be deleted after taking a backup. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code> |
| backupRetention | string | True | <p>JSON string containing a positive numeric value indicating how many backups to retain. Zero indicates that no backups should be created. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • Defined regex is: <code>"^(0 ([1-9][0-9]*))\$"</code> |

| Name | Type | Required | Description |
|-----------|--------|----------|---|
| bucketID | string | False | <p>JSON string containing an optional bucket ID indicating where the backup must be stored on create. If not specified, a system-selected bucket will be used. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| replicate | string | False | <p>JSON string indicating if the schedule triggers AppMirror replication for each snapshot. Only takes effect if the application has an AppMirror relationship defined. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The schedule triggers AppMirror replication • "false" - The schedule does not trigger AppMirror replication If not specified, the default value is "false". |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "granularity": "daily",
  "minute": "0",
  "hour": "0",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

Response

Status: 204, Indicates if the schedule resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```


Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a schedule

DELETE /accounts/{account_id}/k8s/v1/apps/{app_id}/schedules/{schedule_id}

Removes the specified Schedule API resource.

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| schedule_id | string | path | True | ID of the schedule collection to list |

Response

Status: 204, Indicates if the schedule resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Setting

Setting overview

An account setting is a collection of key/value pairs that are important for a known feature in an Astra account. The Setting API provides access to important information about an account setting.

List all settings

GET /accounts/{account_id}/core/v1/settings

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| count | string | query | False | <p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: setting_1.1_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-settings",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-setting",
      "version": "1.0",
      "id": "5da0a2ed-c51d-4d91-8b98-ed3aa8a88cc5",
      "name": "astra.account.smtp",
      "currentConfig": {
        "credential": "",
        "isEnabled": "false",
        "port": 587,
        "relayServer": "smtp.sendgrid.net"
      },
      "configSchema": {
        "$schema": "http://json-schema.org/draft-07/schema#",
        "title": "astra.account.smtp",
        "type": "object",
        "properties": {
          "credential": {
            "type": "string",
            "description": "The credential ID for SMTP authentication."
          },
          "isEnabled": {
            "type": "string",
            "description": "This property determines if this setting is
enabled or not."
          },
          "port": {
            "type": "integer",
            "description": "The SMTP port. For an unencrypted or a TLS
connection, use port 25, 2525, or 587."
          },
          "relayServer": {
            "type": "string",
            "description": "This setting is sometimes referred to as
the external SMTP server or the SMTP relay."
          }
        },
        "additionalProperties": false,
        "required": [
          "relayServer",
          "port",
```

```

        "isEnabled"
      ]
    },
    "state": "valid",
    "stateUnready": [],
    "metadata": {
      "labels": [],
      "creationTimestamp": "2021-06-04T20:14:52Z",
      "modificationTimestamp": "2021-06-04T20:14:52Z",
      "createdBy": "c9550bbb-e70b-4578-8504-07397f875bcb",
      "modifiedBy": "65e1571b-1b46-4f05-95b0-7d7f5a93da6a"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

type_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

properties

type_json_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

| Name | Type | Required | Description |
|----------------------|----------------------------|----------|-------------|
| \$schema | string | True | |
| type | string | True | |
| properties | properties | True | |
| additionalProperties | boolean | True | |
| required | array[string] | True | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|--------|---|----------|-------------|
| labels | array[type_astra_label] | False | |

| Name | Type | Required | Description |
|-----------------------|--------|----------|-------------|
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

setting_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-setting" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|---------------|-----------|----------|---|
| name | string | True | <p>JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. This value is specified by the configmap that is loaded at runtime and cannot be updated by the user. |
| currentConfig | type_json | True | <p>JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.</p> |

| Name | Type | Required | Description |
|---------------|------------------|----------|---|
| desiredConfig | type_json | False | JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration. |
| configSchema | type_json_schema | True | JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false"). |

| Name | Type | Required | Description |
|--------------|--|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> "valid" - The current configuration matches the desired config. "pending" - The desired configuration is being applied. "error" - The desired configuration cannot be applied. |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied. Defined values are:</p> <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 127 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

[type_astra_metadata_list](#)

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a setting

GET /accounts/{account_id}/core/v1/settings/{setting_id}

Returns the stored Setting API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| setting_id | string | path | True | ID of the setting collection to list |

Response

Status: 200, Returns the stored Setting API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-setting" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. This value is specified by the configmap that is loaded at runtime and cannot be updated by the user. |

| Name | Type | Required | Description |
|---------------|-----------|----------|---|
| currentConfig | type_json | True | JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten. |
| desiredConfig | type_json | False | JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration. |

| Name | Type | Required | Description |
|--------------|----------------------------------|----------|--|
| configSchema | type_json_schema | True | JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false"). |
| state | string | True | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "valid" - The current configuration matches the desired config. • "pending" - The desired configuration is being applied. • "error" - The desired configuration cannot be applied. |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-setting",
  "version": "1.1",
  "id": "ea510866-47d3-5130-8468-563df4cd6a28",
  "name": "astra.account.smtp",
  "currentConfig": {
    "credential": "",
    "isEnabled": "false",
    "port": 587,
    "relayServer": "smtp.sendgrid.net"
  },
  "configSchema": {
    "$schema": "http://json-schema.org/draft-07/schema#",
    "title": "astra.account.smtp",
    "type": "object",
    "properties": {
      "credential": {
        "type": "string",
        "description": "The credential ID for SMTP authentication."
      },
      "isEnabled": {
        "type": "string",
        "description": "This property determines if this setting is
enabled or not."
      },
      "port": {
        "type": "integer",
        "description": "The SMTP port. For an unencrypted or a TLS
connection, use port 25, 2525, or 587."
      },
      "relayServer": {
        "type": "string",
        "description": "This setting is sometimes referred to as the
external SMTP server or the SMTP relay."
      }
    },
    "additionalProperties": false,
    "required": [
      "relayServer",
      "port",
      "isEnabled"
    ]
  },
  "state": "valid",
}
```

```
"stateUnready": [],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

type_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

properties

type_json_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

| Name | Type | Required | Description |
|----------------------|----------------------------|----------|-------------|
| \$schema | string | True | |
| type | string | True | |
| properties | properties | True | |
| additionalProperties | boolean | True | |
| required | array[string] | True | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|--------|---|----------|-------------|
| labels | array[type_astra_label] | False | |

| Name | Type | Required | Description |
|-----------------------|--------|----------|-------------|
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a setting

PUT /accounts/{account_id}/core/v1/settings/{setting_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| setting_id | string | path | True | ID of the setting collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-setting" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | False | JSON string containing a name for the setting, in hierarchal dot notation (.). Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. This value is specified by the configmap that is loaded at runtime and cannot be updated by the user. |

| Name | Type | Required | Description |
|---------------|-----------|----------|---|
| currentConfig | type_json | False | JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten. |
| desiredConfig | type_json | False | JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration. |

| Name | Type | Required | Description |
|--------------|----------------------------------|----------|--|
| configSchema | type_json_schema | False | JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false"). |
| state | string | False | <p>JSON string containing a value indicating the operational state of the application. Defined values are:</p> <ul style="list-style-type: none"> • "valid" - The current configuration matches the desired config. • "pending" - The desired configuration is being applied. • "error" - The desired configuration cannot be applied. |
| stateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the setting was not successfully applied. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-setting",
  "version": "1.1",
  "desiredConfig": {
    "credential": "e3d2ea77-398e-49be-85fd-ec66d9426a06",
    "port": 587,
    "relayServer": "<a href="
http://smtp.sendgrid.net>smtp.sendgrid.net</a>",
    "isEnabled": "true"
  }
}
```

Response

Status: 204, Indicates if the setting resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Response

Status: 503, Service unavailable

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/41",
  "title": "Service not ready",
  "detail": "Currently, the service can't respond to this request.",
  "status": "503"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_json

JSON object containing keys and values that make up the current configuration for this setting. The contents of this object must conform to the JSON Schema contained in the configSchema field. Default values are supplied by the configmap. After defaults are changed by the user, they will not be overwritten.

type_json

JSON object containing keys and values that make up the requested configuration for this setting. The contents of this object must conform to the JSON schema contained in the configSchema field. The object does not exist until specified. When specified, this triggers the feature service to notify the corresponding service to request that the desired configuration can be applied. The corresponding service can then perform validation and apply the desired configuration to the current configuration.

properties

type_json_schema

JSON object containing the JSON schema for the config property in this resource. Must conform to JSON Schema Draft 7. If config values are present in the resource, validation against the indicated configSchema is mandatory. As a common convention, configurations are recommended to have an "isEnabled" field, when appropriate. The "isEnabled" field contains a value that indicates whether the setting is turned on ("true") or off ("false").

| Name | Type | Required | Description |
|----------------------|----------------------------|----------|-------------|
| \$schema | string | True | |
| type | string | True | |
| properties | properties | True | |
| additionalProperties | boolean | True | |
| required | array[string] | True | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|--------|---|----------|-------------|
| labels | array[type_astra_label] | False | |

| Name | Type | Required | Description |
|-----------------------|--------|----------|-------------|
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Storage backend

Storage backend overview

The Storage Backend API provides access to representations of providers of storage services (storage backends) that can be used by managed clusters and applications.

Create a new storage backend

POST /accounts/{account_id}/topology/v1/storageBackends

Indicates desired values for the Storage Backend API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

Request Body

Indicates desired values for the Storage Backend API resource to be created.

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-storageBackend" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |
| backendName | string | False | JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 |
| backendType | string | True | JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> "ontap" - The storage backend represents a NetApp ONTAP system enum: ["ontap"] example: ontap |

| Name | Type | Required | Description |
|------------------------|----------------------------|----------|---|
| backendVersion | string | False | <p>JSON string containing a value indicating the version of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendCredentialsName | string | False | <p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendCredentialsName": "st1-45-cred"
}
```

Response

Status: 201, Returns the newly created storageBackend resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-storageBackend" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2""1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------------|--------|----------|--|
| backendName | string | True | <p>JSON string containing a user-specified name for the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendType | string | True | <p>JSON string containing a value indicating the type of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap |
| backendVersion | string | True | <p>JSON string containing a value indicating the version of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendCredentialsName | string | True | <p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| configVersion | string | False | <p>JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state |
| stateDesired | string | False | <p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The storage backend will be in a normal running state |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedState | string | True | <p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------------|---------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|------------------------|------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected |
| protectionStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| capabilities | capabilities | True | JSON object containing this Storage Backend capabilities. |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| ontap | ontap | False | <p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> • additionalProperties: false |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "id": "04ad4237-3c89-5ca5-8a40-282ab5eb6428",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendVersion": "9.8",
  "backendCredentialsName": "st1-45-cred",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "protectionState": "unknown",
  "protectionStateUnready": [
    "Waiting for storage backend discovery"
  ],
  "ontap": {
    "authenticationStyle": "basic",
    "backendManagementIP": "10.193.179.105",
    "managementIPs": [
      "10.193.188.110",
      "10.193.179.105",
      "10.193.179.106"
    ]
  },
  "capabilities": {
    "flexClone": "true",
    "snapMirror": "true",
    "s3": "true"
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

capabilities

JSON object containing this Storage Backend capabilities.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| flexClone | string | True | JSON string indicating if this Storage Backend supports FlexClone. |
| snapMirror | string | True | JSON string indicating if this Storage Backend supports SnapMirror. |
| s3 | string | True | JSON string indicating if this Storage Backend supports s3. |

ontap

JSON object containing specific information related to ONTAP clusters.

| Name | Type | Required | Description |
|---------------------|---------------|----------|--|
| authenticationStyle | string | True | <p>JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate. Defined values are:</p> <ul style="list-style-type: none"> • "basic" - Uses username/password • "certificate" - Uses certificate • enum: ["basic", "certificate"] • example: basic |
| backendManagementIP | string | False | <p>JSON string containing the IP address used to connect to this ONTAP cluster.</p> |
| managementIPs | array[string] | False | <p>JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra.</p> <ul style="list-style-type: none"> • uniqueItems: 1 |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all storage backends

GET /accounts/{account_id}/topology/v1/storageBackends

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name,state</code> |

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|--|
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: storageBackend_1.3_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-storageBackends",
  "version": "1.3",
  "items": [
    [
      "d6ee1e51-d65f-415a-a3d4-6d7fa8b64943",
      "st1-45",
      "running"
    ],
    [
      "a5c508b7-aacd-4d19-9455-53c0d183ab4e",
      "st2-67",
      "discovered"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

capabilities

JSON object containing this Storage Backend capabilities.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| flexClone | string | True | JSON string indicating if this Storage Backend supports FlexClone. |
| snapMirror | string | True | JSON string indicating if this Storage Backend supports SnapMirror. |
| s3 | string | True | JSON string indicating if this Storage Backend supports s3. |

ontap

JSON object containing specific information related to ONTAP clusters.

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| authenticationStyle | string | True | JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate. Defined values are: <ul style="list-style-type: none">• "basic" - Uses username/password• "certificate" - Uses certificate• enum: ["basic", "certificate"]• example: basic |
| backendManagementIP | string | False | JSON string containing the IP address used to connect to this ONTAP cluster. |

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| managementIPs | array[string] | False | JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. <ul style="list-style-type: none"> uniqueItems: 1 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

storageBackend_1.3_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-storageBackend" |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| backendName | string | True | JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendType | string | True | JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap |
| backendVersion | string | True | JSON string containing a value indicating the version of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| backendCredentialsName | string | True | <p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| configVersion | string | False | <p>JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stateDesired | string | False | <p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The storage backend will be in a normal running state |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedState | string | True | <p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management |

| Name | Type | Required | Description |
|---------------------|---------------|----------|--|
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| healthState | string | False | <p>JSON string containing a value indicating the health state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|--------------------|---------------|----------|---|
| healthStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected |

| Name | Type | Required | Description |
|------------------------|----------------------------|----------|--|
| protectionStateUnready | array[string] | True | JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| capabilities | capabilities | True | JSON object containing this Storage Backend capabilities. |
| ontap | ontap | False | JSON object containing specific information related to ONTAP clusters. <ul style="list-style-type: none"> • additionalProperties: false |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|----------|--------|----------|-------------|
| continue | string | False | |

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a storage backend

GET /accounts/{account_id}/topology/v1/storageBackends/{storageBackend_id}

Returns the stored Storage Backend API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| storageBackend_id | string | path | True | ID of the storageBackend collection to list |

Response

Status: 200, Returns the stored Storage Backend API resource in the JSON response body.

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-storageBackend" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| backendName | string | True | JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendType | string | True | JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap |

| Name | Type | Required | Description |
|------------------------|--------|----------|--|
| backendVersion | string | True | <p>JSON string containing a value indicating the version of the storage backend being represented. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendCredentialsName | string | True | <p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| configVersion | string | False | <p>JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| state | string | True | <p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state |
| stateDesired | string | False | <p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The storage backend will be in a normal running state |
| stateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|---------------------|---------------|----------|---|
| managedState | string | True | <p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management |
| managedStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|--------------------|---------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |

| Name | Type | Required | Description |
|------------------------|------------------------------|----------|---|
| protectionState | string | True | <p>JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected |
| protectionStateUnready | array[string] | True | <p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| capabilities | capabilities | True | JSON object containing this Storage Backend capabilities. |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| ontap | ontap | False | <p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> • additionalProperties: false |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "id": "04ad4237-3c89-5ca5-8a40-282ab5eb6428",
  "backendName": "st1-45",
  "backendType": "ontap",
  "backendVersion": "9.8",
  "backendCredentialsName": "st1-45-cred",
  "state": "discovered",
  "stateUnready": [],
  "managedState": "unmanaged",
  "managedStateUnready": [],
  "protectionState": "unknown",
  "protectionStateUnready": [
    "Waiting for storage backend discovery"
  ],
  "capabilities": {
    "flexClone": "true",
    "snapMirror": "true",
    "s3": "true"
  },
  "ontap": {
    "authenticationStyle": "basic",
    "backendManagementIP": "10.193.179.105",
    "managementIPs": [
      "10.193.188.110",
      "10.193.179.105",
      "10.193.179.106"
    ]
  },
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

capabilities

JSON object containing this Storage Backend capabilities.

| Name | Type | Required | Description |
|------------|--------|----------|---|
| flexClone | string | True | JSON string indicating if this Storage Backend supports FlexClone. |
| snapMirror | string | True | JSON string indicating if this Storage Backend supports SnapMirror. |
| s3 | string | True | JSON string indicating if this Storage Backend supports s3. |

ontap

JSON object containing specific information related to ONTAP clusters.

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| authenticationStyle | string | True | JSON string indicating whether the ONTAP authentication is performed using a username/password combination or a certificate. Defined values are: <ul style="list-style-type: none">• "basic" - Uses username/password• "certificate" - Uses certificate• enum: ["basic", "certificate"]• example: basic |
| backendManagementIP | string | False | JSON string containing the IP address used to connect to this ONTAP cluster. |

| Name | Type | Required | Description |
|---------------|---------------|----------|---|
| managementIPs | array[string] | False | JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. <ul style="list-style-type: none"> • uniqueItems: 1 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a storage backend

PUT /accounts/{account_id}/topology/v1/storageBackends/{storageBackend_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Specifying a configuration version results in storage backend type-specific configuration changes being applied, which can include the initial installation of a storage backend.
- Specifying a configuration version might result in storageClass resources being added, modified, or removed.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| storageBackend_id | string | path | True | ID of the storageBackend collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Specifying a configuration version results in storage backend type-specific configuration changes being applied, which can include the initial installation of a storage backend.
- Specifying a configuration version might result in storageClass resources being added, modified, or removed.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-storageBackend" |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| backendName | string | False | JSON string containing a user-specified name for the storage backend. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| backendType | string | False | JSON string containing a value indicating the type of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> • "ontap" - The storage backend represents a NetApp ONTAP system • enum: ["ontap"] • example: ontap |
| backendVersion | string | False | JSON string containing a value indicating the version of the storage backend being represented. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|------------------------|--------|----------|---|
| backendCredentialsName | string | False | <p>JSON string containing a value indicating the name of one or more credential resources used for the storage backend. Allows for credential rotation where multiple credential objects have the same name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| configVersion | string | False | <p>JSON string containing a value indicating the active configuration to be used by the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| state | string | False | <p>JSON string containing a value indicating the operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "discovered" - The storage backend has been discovered from a managed cluster • "running" - The storage backend is running normally • "unknown" - The state of the storage backend cannot be determined • "failed" - The storage backend is in an unavailable state |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stateDesired | string | False | <p>JSON string containing a value indicating the desired operational state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "running" - The storage backend will be in a normal running state |
| stateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a storage backend is unable to transition to "running", why it has transitioned to "failed" or "unknown", and/or why it is at risk of transitioning to "failed". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| managedState | string | False | <p>JSON string containing a value indicating the management state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The storage backend is scheduled to be discovered or added • "unmanaged" - The storage backend is in a "discovered" state, is not under management, and is eligible for management • "managed" - The storage backend is in a "running" or "unknown" state and is under management |

| Name | Type | Required | Description |
|---------------------|---------------|----------|--|
| managedStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why the storage backend is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| healthState | string | False | <p>JSON string containing a value indicating the health state of the storage backend. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|--------------------|---------------|----------|---|
| healthStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a storage backend is not in a normal health state. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| protectionState | string | False | <p>JSON string containing a value indicating the protection state of the storage backend. "unknown" for ONTAP. Defined values are:</p> <ul style="list-style-type: none"> • "protected" - The storage backend has a protection policy defined and is in conformance with that policy • "partial" - The storage backend has a protection policy defined but is out of conformance with that policy • "none" - The storage backend is not protected • "unknown" - The storage backend protection policy conformance cannot be determined • enum: ["protected", "partial", "none", "unknown"] • example: protected |

| Name | Type | Required | Description |
|------------------------|----------------------------|----------|--|
| protectionStateUnready | array[string] | False | <p>JSON array of JSON strings, each indicating a reason why a protection policy is out of conformance. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 127 |
| ontap | ontap | False | <p>JSON object containing specific information related to ONTAP clusters.</p> <ul style="list-style-type: none"> • additionalProperties: false |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-storageBackend",
  "version": "1.3",
  "backendName": "st1-46"
}

```

Response

Status: 204, Indicates if the storageBackend resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

ontap

JSON object containing specific information related to ONTAP clusters.

| Name | Type | Required | Description |
|---------------------|---------------|----------|--|
| backendManagementIP | string | False | JSON string containing the IP address used to connect to this ONTAP cluster. |
| managementIPs | array[string] | False | JSON array of JSON strings containing the list of all possible management IPs used to connect to this ONTAP cluster. This is used to correlate backends detected through Trident and storage backends in Astra. • <code>uniqueItems: 1</code> |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a storage backend

DELETE /accounts/{account_id}/topology/v1/storageBackends/{storageBackend_id}

Removes the specified Storage Backend API resource.

Side Effects

- All backendConfig resources associated with the storage backend are removed.
- All backendNode resources associated with the storage backend are removed.
- The storage backend might be removed.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |
| storageBackend_id | string | path | True | ID of the storageBackend collection to list |

Response

Status: 204, Indicates if the storageBackend resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Storage class

Storage class overview

The Storage Class API describes storage classes known to a given cluster.

List the storage classes for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the containing cluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: storageClass_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

storageClass_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-storageClass" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| name | string | True | <p>JSON string containing a value indicating the name of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| provisioner | string | True | <p>JSON string containing a value indicating the provisioner associated with the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| available | string | True | <p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management |

| Name | Type | Required | Description |
|----------------------|--------|----------|---|
| allowVolumeExpansion | string | True | <p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion |
| reclaimPolicy | string | True | <p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| volumeBindingMode | string | True | <p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| isDefault | string | False | <p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| maxSnapshotCount | number | False | JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp. |
| maxBackupCount | number | False | JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp. |
| price | string | False | JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| currency | string | False | JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| performance | number | False | JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp. |

| Name | Type | Required | Description |
|------------|-------------------------------------|----------|---|
| resilience | string | False | <p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> "regional" - The volume will become unavailable if a given region becomes unavailable "multisite" - The volume will continue to be available if a given region becomes unavailable |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a storage class for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/storageClasses/{storageClass_id}

Returns the stored Storage Class API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cloud_id | string | path | True | ID of the containing cloud resource |
| cluster_id | string | path | True | ID of the containing cluster resource |
| storageClass_id | string | path | True | ID of the storageClass collection to list |

Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-storageClass" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| provisioner | string | True | JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| available | string | True | <p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management |
| allowVolumeExpansion | string | True | <p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion |
| reclaimPolicy | string | True | <p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| volumeBindingMode | string | True | <p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| isDefault | string | False | <p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation |
| maxSnapshotCount | number | False | <p>JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.</p> |
| maxBackupCount | number | False | <p>JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.</p> |
| price | string | False | <p>JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| currency | string | False | <p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| performance | number | False | <p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p> |
| resilience | string | False | <p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the storage classes for a cluster

GET /accounts/{account_id}/topology/v1/clusters/{cluster_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| cluster_id | string | path | True | ID of the containing cluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|-------|---|----------|-------------|
| items | array[Any of: storageClass_1.1_get_response_body , array[]] | True | |

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

storageClass_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-storageClass" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| name | string | True | <p>JSON string containing a value indicating the name of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| provisioner | string | True | <p>JSON string containing a value indicating the provisioner associated with the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| available | string | True | <p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management |

| Name | Type | Required | Description |
|----------------------|--------|----------|---|
| allowVolumeExpansion | string | True | <p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion |
| reclaimPolicy | string | True | <p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| volumeBindingMode | string | True | <p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| isDefault | string | False | <p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| maxSnapshotCount | number | False | JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp. |
| maxBackupCount | number | False | JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp. |
| price | string | False | JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| currency | string | False | JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| performance | number | False | JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp. |

| Name | Type | Required | Description |
|------------|-------------------------------------|----------|---|
| resilience | string | False | <p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> "regional" - The volume will become unavailable if a given region becomes unavailable "multisite" - The volume will continue to be available if a given region becomes unavailable |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a storage class for a cluster

GET

/accounts/{account_id}/topology/v1/clusters/{cluster_id}/storageClasses/{storageClass_id}

Returns the stored Storage Class API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| cluster_id | string | path | True | ID of the containing cluster resource |
| storageClass_id | string | path | True | ID of the storageClass collection to list |

Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-storageClass" |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| provisioner | string | True | JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| available | string | True | <p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management |
| allowVolumeExpansion | string | True | <p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion |
| reclaimPolicy | string | True | <p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| volumeBindingMode | string | True | <p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| isDefault | string | False | <p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation |
| maxSnapshotCount | number | False | <p>JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.</p> |
| maxBackupCount | number | False | <p>JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.</p> |
| price | string | False | <p>JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| currency | string | False | <p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| performance | number | False | <p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p> |
| resilience | string | False | <p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the storage classes for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/storageClasses

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: storageClass_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

storageClass_1.1_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-storageClass" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------|--------|----------|--|
| name | string | True | <p>JSON string containing a value indicating the name of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| provisioner | string | True | <p>JSON string containing a value indicating the provisioner associated with the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| available | string | True | <p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management |

| Name | Type | Required | Description |
|----------------------|--------|----------|---|
| allowVolumeExpansion | string | True | <p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion |
| reclaimPolicy | string | True | <p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| volumeBindingMode | string | True | <p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| isDefault | string | False | <p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| maxSnapshotCount | number | False | JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp. |
| maxBackupCount | number | False | JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp. |
| price | string | False | <p>JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| currency | string | False | <p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| performance | number | False | JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp. |

| Name | Type | Required | Description |
|------------|-------------------------------------|----------|---|
| resilience | string | False | <p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> "regional" - The volume will become unavailable if a given region becomes unavailable "multisite" - The volume will continue to be available if a given region becomes unavailable |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a storage class for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/storageClasses/{storageClass_id}

Returns the stored Storage Class API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| storageClass_id | string | path | True | ID of the storageClass collection to list |

Response

Status: 200, Returns the stored Storage Class API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-storageClass" |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| provisioner | string | True | JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| available | string | True | <p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management |
| allowVolumeExpansion | string | True | <p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion |
| reclaimPolicy | string | True | <p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| volumeBindingMode | string | True | <p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| isDefault | string | False | <p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation |
| maxSnapshotCount | number | False | <p>JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.</p> |
| maxBackupCount | number | False | <p>JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.</p> |
| price | string | False | <p>JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|---|
| currency | string | False | <p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| performance | number | False | <p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p> |
| resilience | string | False | <p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Subscription

Subscription overview

The Subscription API provides access to subscription resources in order to represent active subscriptions.

Create a new subscription

POST /accounts/{account_id}/core/v1/subscriptions

Indicates desired values for the Subscription API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

Indicates desired values for the Subscription API resource to be created.

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-subscription" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| customerProfileID | string | False | JSON string containing the customer profile ID from Authorize.net , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none">Minimum length: 0Maximum length: 63 |

| Name | Type | Required | Description |
|------------------|--------------------------------|----------|---|
| paymentFirstName | string | False | <p>JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| paymentLastName | string | False | <p>JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| paymentAddress | paymentAddress | False | <p>JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled. If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.</p> |
| paymentProfileID | string | False | <p>JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| paymentExpiry | string | False | <p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms. |
| marketplace | string | False | <p>JSON string indicating the marketplace for an account where payments will be recorded. Defined values:</p> <ul style="list-style-type: none"> • "netapp" • "azure" • "aws" • "gcp" |
| terms | string | True | <p>JSON string indicating the current tier of the account. Defined values are:</p> <ul style="list-style-type: none"> • "trial" • "paid" |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "terms": "trial"
}
```

Response

Status: 201, Returns the newly created subscription resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-subscription" |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| customerProfileID | string | True | JSON string containing the customer profile ID from Authorize.net , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| paymentProfileID | string | False | JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| paymentExpiry | string | False | <p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms. |
| purchaseOrderNumber | string | False | <p>JSON string containing the purchase order number for the payment method. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| marketplace | string | False | <p>JSON string indicating the marketplace for an account where payments will be recorded. Defined values:</p> <ul style="list-style-type: none"> • "netapp" • "azure" • "aws" • "gcp" |
| licenseSN | string | False | <p>JSON string containing the license serial number for the payment method. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| terms | string | True | JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> • "trial" • "paid" |
| status | string | True | JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> • "active" • "inactive" |
| appLimit | number | True | JSON number indicating the application limit for this subscription. Value of -1 indicates no limit. |
| namespaceLimit | number | True | JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit. |
| subscriptionPeriod | number | True | JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days |
| gracePeriod | number | True | JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days |
| reminderBeforePeriod | number | True | JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable. |

| Name | Type | Required | Description |
|----------------------|--|----------|--|
| onboardStatus | string | True | <p>JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are:</p> <ul style="list-style-type: none"> • "not started" • "in progress" • "success" • "failed" |
| costPerAppUnit | number | True | <p>JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars</p> |
| costPerNamespaceUnit | number | True | <p>JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "id": "40b4106f-b743-5d83-95c7-d539b2b45f63",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-02-01T00:00:00Z",
  "purchaseOrderNumber": "72384632",
  "marketplace": "netapp",
  "licenseSN": "278343",
  "terms": "trial",
  "status": "active",
  "appLimit": 0,
  "namespaceLimit": 10,
  "subscriptionPeriod": 90,
  "gracePeriod": 7,
  "reminderBeforePeriod": 30,
  "onboardStatus": "in progress",
  "costPerAppUnit": 0,
  "costPerNamespaceUnit": 0.005,
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

paymentAddress

JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled. If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all subscriptions

GET /accounts/{account_id}/core/v1/subscriptions

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| continue | | query | False | <p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;</p> |
| count | string | query | False | <p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: subscription_1.2_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-subscriptions",
  "version": "1.2",
  "items": [
    {
      "type": "application/astra-subscription",
      "version": "1.1",
      "id": "d4c865c9-64a7-4661-ae4a-3307dffcd3da",
      "customerProfileID": "2157047189",
      "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
      "paymentExpiry": "2022-02-01T00:00:00Z",
      "purchaseOrderNumber": "72384632",
      "marketplace": "netapp",
      "licenseSN": "278343",
      "terms": "trial",
      "status": "inactive",
      "appLimit": 0,
      "namespaceLimit": 10,
      "subscriptionPeriod": 90,
      "gracePeriod": 7,
      "reminderBeforePeriod": 30,
      "onboardStatus": "success",
      "costPerAppUnit": 0,
      "costPerNamespaceUnit": 0.005,
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-05-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-05-06T12:24:52.256624Z",
        "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
      }
    },
    {
      "type": "application/astra-subscription",
      "version": "1.1",
      "id": "4c43ed8b-078f-4fe3-b8c6-5d515f6382e6",
      "customerProfileID": "2157047189",
      "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
      "paymentExpiry": "2022-05-01T00:00:00Z",
      "purchaseOrderNumber": "92374658",
      "marketplace": "netapp",
      "licenseSN": "374623",
      "terms": "paid",
      "status": "active",
      "appLimit": 0,
    }
  ]
}
```

```

"namespaceLimit": -1,
"subscriptionPeriod": -1,
"gracePeriod": -1,
"reminderBeforePeriod": -1,
"onboardStatus": "success",
"costPerAppUnit": 0,
"costPerNamespaceUnit": 0.005,
"metadata": {
  "labels": [],
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
  "createdBy": "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa"
}
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

subscription_1.2_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-subscription" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| customerProfileID | string | True | <p>JSON string containing the customer profile ID from Authorize.net, which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| paymentProfileID | string | False | <p>JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| paymentExpiry | string | False | <p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net (http://authorize.net) and is set by the UI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms. |

| Name | Type | Required | Description |
|---------------------|--------|----------|--|
| purchaseOrderNumber | string | False | JSON string containing the purchase order number for the payment method. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| marketplace | string | False | JSON string indicating the marketplace for an account where payments will be recorded. Defined values: <ul style="list-style-type: none"> • "netapp" • "azure" • "aws" • "gcp" |
| licenseSN | string | False | JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| terms | string | True | JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> • "trial" • "paid" |
| status | string | True | JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> • "active" • "inactive" |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| appLimit | number | True | JSON number indicating the application limit for this subscription. Value of -1 indicates no limit. |
| namespaceLimit | number | True | JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit. |
| subscriptionPeriod | number | True | JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days |
| gracePeriod | number | True | JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days |
| reminderBeforePeriod | number | True | JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable. |
| onboardStatus | string | True | JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> • "not started" • "in progress" • "success" • "failed" |

| Name | Type | Required | Description |
|----------------------|--|----------|--|
| costPerAppUnit | number | True | JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars |
| costPerNamespaceUnit | number | True | JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a subscription

GET /accounts/{account_id}/core/v1/subscriptions/{subscription_id}

Returns the stored Subscription API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| subscription_id | string | path | True | ID of the subscription collection to list |

Response

Status: 200, Returns the stored Subscription API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-subscription" |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| customerProfileID | string | True | JSON string containing the customer profile ID from Authorize.net , which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| paymentProfileID | string | False | JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| paymentExpiry | string | False | <p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net](http://authorize.net) and is set by the UI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms. |
| purchaseOrderNumber | string | False | <p>JSON string containing the purchase order number for the payment method. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| marketplace | string | False | <p>JSON string indicating the marketplace for an account where payments will be recorded. Defined values:</p> <ul style="list-style-type: none"> • "netapp" • "azure" • "aws" • "gcp" |
| licenseSN | string | False | <p>JSON string containing the license serial number for the payment method. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|----------------------|--------|----------|--|
| terms | string | True | JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> • "trial" • "paid" |
| status | string | True | JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> • "active" • "inactive" |
| appLimit | number | True | JSON number indicating the application limit for this subscription. Value of -1 indicates no limit. |
| namespaceLimit | number | True | JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit. |
| subscriptionPeriod | number | True | JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days |
| gracePeriod | number | True | JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days |
| reminderBeforePeriod | number | True | JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable. |

| Name | Type | Required | Description |
|----------------------|--|----------|--|
| onboardStatus | string | True | <p>JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are:</p> <ul style="list-style-type: none"> • "not started" • "in progress" • "success" • "failed" |
| costPerAppUnit | number | True | <p>JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars</p> |
| costPerNamespaceUnit | number | True | <p>JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars</p> |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "id": "40b4106f-b743-5d83-95c7-d539b2b45f63",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-02-01T00:00:00Z",
  "purchaseOrderNumber": "72384632",
  "marketplace": "netapp",
  "licenseSN": "278343",
  "terms": "trial",
  "status": "active",
  "onboardStatus": "success",
  "costPerAppUnit": 0,
  "costPerNamespaceUnit": 0.005,
  "appLimit": 0,
  "namespaceLimit": 10,
  "subscriptionPeriod": 90,
  "gracePeriod": 7,
  "reminderBeforePeriod": 30,
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a subscription

PUT /accounts/{account_id}/core/v1/subscriptions/{subscription_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- If the user cancels the subscription, the PUT endpoint must be called with "status": "inactive".
- When the status is set to "inactive", the pending charges for this subscription are sent to Zuora and the Zuora subscription will be marked as "inactive" in some way.

Parameters

| Name | Type | In | Required | Description |
|-----------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| subscription_id | string | path | True | ID of the subscription collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- If the user cancels the subscription, the PUT endpoint must be called with "status": "inactive".
- When the status is set to "inactive", the pending charges for this subscription are sent to Zuora and the Zuora subscription will be marked as "inactive" in some way.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-subscription" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|--------------------------------|----------|--|
| customerProfileID | string | False | <p>JSON string containing the customer profile ID from Authorize.net, which was invoked by the UI, is not set for the trial term. Returns an empty string during read operation, if not set. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| paymentFirstName | string | False | <p>JSON string containing a user-specified long-form first name used for payment billing. Specified only when the subscription is being rebilled. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| paymentLastName | string | False | <p>JSON string containing a user-specified long-form last name used for payment billing. Specified only when the subscription is being rebilled. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| paymentAddress | paymentAddress | False | <p>JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled. If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.</p> |

| Name | Type | Required | Description |
|---------------------|--------|----------|---|
| paymentProfileID | string | False | <p>JSON string containing the payment profile ID from Authorize.net that was invoked by the UI, not set for trial term. Returns an empty string during read operation if not set. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| paymentExpiry | string | False | <p>JSON string containing a timestamp indicating when the payment method expires. This is obtained from authorize.net (http://authorize.net) and is set by the UI. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema This field is not returned for trial terms. |
| purchaseOrderNumber | string | False | <p>JSON string containing the purchase order number for the payment method. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| marketplace | string | False | <p>JSON string indicating the marketplace for an account where payments will be recorded. Defined values:</p> <ul style="list-style-type: none"> • "netapp" • "azure" • "aws" • "gcp" |

| Name | Type | Required | Description |
|--------------------|--------|----------|--|
| licenseSN | string | False | JSON string containing the license serial number for the payment method. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| terms | string | False | JSON string indicating the current tier of the account. Defined values are: <ul style="list-style-type: none"> • "trial" • "paid" |
| status | string | False | JSON string indicating the current status of the subscription. Defined values are: <ul style="list-style-type: none"> • "active" • "inactive" |
| appLimit | number | False | JSON number indicating the application limit for this subscription. Value of -1 indicates no limit. |
| namespaceLimit | number | False | JSON number indicating the namespace limit for this subscription. Value of -1 indicates no limit. |
| subscriptionPeriod | number | False | JSON number indicating the subscription period. Value of -1 indicates no limit. Unit: days |
| gracePeriod | number | False | JSON number indicating the grace period after the trial subscription has expired or a paid subscription is canceled. Unit: days |

| Name | Type | Required | Description |
|----------------------|--------|----------|---|
| reminderBeforePeriod | number | False | JSON number indicating the number of days before the end of the trial subscription when the customer notifications will begin. The value is expressed in days with a value of -1 indicating it's not applicable. |
| onboardStatus | string | False | JSON string indicating the current status of customer onboarding. Valid values are "not started", "in progress", "success", "failed". Defined values are: <ul style="list-style-type: none"> • "not started" • "in progress" • "success" • "failed" |
| costPerAppUnit | number | False | JSON number indicating the cost per app unit. For a trial version, the value is 0. Unit: US dollars |
| costPerNamespaceUnit | number | False | JSON number indicating the cost per namespace unit. For a trial version, the value is 0. Unit: US dollars |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-subscription",
  "version": "1.2",
  "customerProfileID": "2157047189",
  "paymentProfileID": "E7CEB0A9F1BECA32A02493E1B31D5955",
  "paymentExpiry": "2022-05-01T00:00:00Z"
}
```

Response

Status: 204, Indicates if the subscription resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

paymentAddress

JSON object containing a collection of JSON strings specifying a billing address. Specified only when the subscription is being rebilled. If this key exists, all six of the contained JSON strings will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 0• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and more. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a subscription

DELETE /accounts/{account_id}/core/v1/subscriptions/{subscription_id}

Removes the specified Subscription API resource.

Side Effects

- Subscription is deleted along with all the charges associated with it.

Parameters

| Name | Type | In | Required | Description |
|-----------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| subscription_id | string | path | True | ID of the subscription collection to list |

Response

Status: 204, Indicates if the subscription resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Task

Task overview

The Task App API provides access to managed task resources in order to represent long-running tasks.

List all tasks

GET /accounts/{account_id}/core/v1/tasks

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: task_1.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-tasks",
  "version": "1.1",
  "items": [
    {
      "type": "application/astra-task",
      "version": "1.0",
      "id": "ae1e6561-9e22-406c-8a5a-762f4604da00",
      "name": "astra.backup.prep",
      "summary": "Backup preparation",
      "description": "Task to prepare for the application backup",
      "service": "nautilus",
      "parentTaskID": "9cc8c321-6af1-406c-8158-2c6582c247f8",
      "userID": "abda967f-cd2c-4237-908e-99266648c553",
      "resourceID": "626a0978-d55f-4841-8b7c-dc0c0f592c6f",
      "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/k8s/v1/apps/7c8bef49-697e-4fb4-810c-675cef4cf6c9/appSnaps/5cb608f9-571b-492e-a520-5bfb900a9b9c",
      "resourceCollectionURI": [
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06/appSnaps/5cb608f9-571b-492e-a520-5bfb900a9b9c",
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06/appSnaps/5cb608f9-571b-492e-a520-5bfb900a9b9c"
      ],
      "state": "running",
      "stateTransitions": [
        {
          "from": "running",
          "to": [
            "paused",
            "cancelled"
          ]
        },
        {
          "from": "paused",
          "to": [

```

```

        "running",
        "cancelled"
    ]
}
],
"stateDetails": [],
"orderHint": 0,
"percentDone": 20.25,
"startTime": "2020-08-06T12:24:52.256624Z",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "00000000-0000-0000-0000-000000000000"
}
},
{
    "type": "application/astra-task",
    "version": "1.0",
    "id": "bc1e6561-9e22-406c-8a5a-762f4604da00",
    "name": "astra.backup",
    "summary": "Backup",
    "description": "Task to take a Backup for an application",
    "service": "nautilus",
    "userID": "abda967f-cd2c-4237-908e-99266648c553",
    "resourceID": "736a0978-d55f-4841-8b7c-dc0c0f592c6f",
    "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/k8s/v1/apps/7c8bef49-697e-4fb4-810c-675cef4cf6c9/appBackups/736a0978-d55f-4841-8b7c-dc0c0f592c6f",
    "resourceCollectionURI": [
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-018dbaf7c5de/apps/f670bf11-8850-44bd-b330-815af6186a06/appBackups/736a0978-d55f-4841-8b7c-dc0c0f592c6f",
        "/accounts/fdaa655c-15ab-4d34-aa61-1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-815af6186a06/appBackups/736a0978-d55f-4841-8b7c-dc0c0f592c6f"
    ],
    "state": "completed",
    "stateTransitions": [
        {

```

```

    "from": "running",
    "to": [
      "paused",
      "cancelled"
    ]
  },
  {
    "from": "paused",
    "to": [
      "running",
      "cancelled"
    ]
  }
],
"stateDetails": [],
"orderHint": 0,
"percentDone": 100,
"startTime": "2020-08-06T12:24:52.256624Z",
"endTime": "2020-08-06T12:26:52.256624Z",
"metadata": {
  "labels": [],
  "creationTimestamp": "2020-08-06T12:24:52.256624Z",
  "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
  "createdBy": "00000000-0000-0000-0000-000000000000"
}
},
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```


Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

task_1.1_get_response_body

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-task" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 127 • Defined regex is: <code>"^[a-z](\.[a-z])+"</code> |
| summary | string | True | JSON string containing the short-form summary of the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 63 |
| description | string | True | JSON string containing a description of the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| service | string | False | JSON string containing the name of the service that is managing the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| parentTaskID | string | False | JSON string containing a globally unique identifier of a parent task of the task. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| userID | string | False | JSON string containing the user ID associated with a task. Only included for tasks associated with user-initiated actions. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| resourceID | string | True | JSON string containing a globally unique identifier of the resource associated with the task. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| resourceURI | string | True | JSON string containing the URI associated with the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| resourceCollectionURI | array[string] | True | <p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the task. Defined values are:</p> <ul style="list-style-type: none"> • "notStarted" - The task has not started executing. • "running" - The task is running. • "completed" - The task has completed. • "pausing" - The task was requested to pause. • "paused" - The task is paused. • "cancelling" - The task was requested to cancel. • "cancelled" - The task is cancelled. • "failed" - The task has failed. • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|------------------|-----------------------------------|----------|--|
| stateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 <p>For example:</p> <pre>"stateTransitions" : [{ "from": "running", "to": ["paused", "cancelled"] }, { "from": "paused", "to": ["running", "cancelled"] },]</pre> |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". This field indicates when there are conditions or errors that prevent the actual state from matching the desired state. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| orderHint | number | False | <p>JSON number representing the order of subtasks. This field can be used by the client to sort subtasks from smallest to largest.</p> |

| Name | Type | Required | Description |
|-------------|-------------------------------------|----------|--|
| percentDone | number | False | JSON number containing the percentage complete for a running task. When the task is completed, this is set to "100". |
| startTime | string | False | JSON string containing the timestamp indicating when the task started. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| endTime | string | False | JSON string containing the timestamp indicating when the task ended. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| cancelTime | string | False | JSON string containing the timestamp indicating when the task was cancelled. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|----------|--------|----------|-------------|
| continue | string | False | |

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a task

GET /accounts/{account_id}/core/v1/tasks/{task_id}

Returns the stored Task API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| task_id | string | path | True | ID of the task collection to list |

Response

Status: 200, Returns the stored Task API resource in the JSON response body.

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-task" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a dot notation (.) hierarchical name for the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 127 • Defined regex is: "<code>^[a-z](\.[a-z])+\$</code>" |
| summary | string | True | JSON string containing the short-form summary of the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 63 |
| description | string | True | JSON string containing a description of the task. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 511 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| service | string | False | <p>JSON string containing the name of the service that is managing the task. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 |
| parentTaskID | string | False | <p>JSON string containing a globally unique identifier of a parent task of the task. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| userID | string | False | <p>JSON string containing the user ID associated with a task. Only included for tasks associated with user-initiated actions. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| resourceID | string | True | <p>JSON string containing a globally unique identifier of the resource associated with the task. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| resourceURI | string | True | <p>JSON string containing the URI associated with the task. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |

| Name | Type | Required | Description |
|-----------------------|---------------|----------|---|
| resourceCollectionURI | array[string] | True | <p>JSON array of JSON strings, each indicating the fully-expanded access URL of the resource associated with the task. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| state | string | True | <p>JSON string containing a value indicating the operational state of the task. Defined values are:</p> <ul style="list-style-type: none"> • "notStarted" - The task has not started executing. • "running" - The task is running. • "completed" - The task has completed. • "pausing" - The task was requested to pause. • "paused" - The task is paused. • "cancelling" - The task was requested to cancel. • "cancelled" - The task is cancelled. • "failed" - The task has failed. • Minimum length: 1 • Maximum length: 31 |

| Name | Type | Required | Description |
|------------------|-----------------------------------|----------|---|
| stateTransitions | array[type_astra_stateTransition] | True | <p>JSON array of JSON objects, each representing the set of permitted state transitions from a given defined state. Each JSON object contains the fields "from" and "to", where the "from" value is the name of a state, and the "to" value is an array of permitted destination states.</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 31 <p>For example:</p> <pre>"stateTransitions" : [{ "from": "running", "to": ["paused", "cancelled"] }, { "from": "paused", "to": ["running", "cancelled"]}],]</pre> |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". This field indicates when there are conditions or errors that prevent the actual state from matching the desired state. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| orderHint | number | False | <p>JSON number representing the order of subtasks. This field can be used by the client to sort subtasks from smallest to largest.</p> |
| percentDone | number | False | <p>JSON number containing the percentage complete for a running task. When the task is completed, this is set to "100".</p> |

| Name | Type | Required | Description |
|------------|-------------------------------------|----------|--|
| startTime | string | False | JSON string containing the timestamp indicating when the task started. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| endTime | string | False | JSON string containing the timestamp indicating when the task ended. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| cancelTime | string | False | JSON string containing the timestamp indicating when the task was cancelled. Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-task",
  "version": "1.1",
  "id": "26e8e8ef-5549-5928-98dd-2c3d43a608e8",
  "name": "astra.backup.prep",
  "summary": "Backup preparation",
  "description": "Task to prepare for the application backup",
  "service": "nautilus",
  "userID": "abda967f-cd2c-4237-908e-99266648c553",
  "parentTaskID": "9cc8c321-6af1-406c-8158-2c6582c247f8",
  "resourceID": "626a0978-d55f-4841-8b7c-dc0c0f592c6f",
  "resourceURI": "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/k8s/v1/apps/7c8bef49-697e-4fb4-810c-
675cef4cf6c9/appSnaps/2b6dafc3-2172-4431-a482-6306b2703130",
  "resourceCollectionURI": [
    "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/f8b58091-4b9c-4c64-9b40-
018dbaf7c5de/apps/f670bf11-8850-44bd-b330-
815af6186a06/appSnaps/2b6dafc3-2172-4431-a482-6306b2703130",
    "/accounts/fdaa655c-15ab-4d34-aa61-
1e9098e67be0/topology/v1/clouds/0df3f1a0-7203-4c12-aabf-
a7bee6302671/clusters/dfd9de2d-6f0b-437b-a737-
c8f7f176cd14/namespaces/923708f8-0435-45b5-8c00-
fbdef3ffaf25/apps/f670bf11-8850-44bd-b330-
815af6186a06/appSnaps/2b6dafc3-2172-4431-a482-6306b2703130"
  ],
  "state": "running",
  "stateTransitions": [
    {
      "from": "running",
      "to": [
        "paused",
        "cancelled"
      ]
    },
    {
      "from": "paused",
      "to": [
        "running",
        "cancelled"
      ]
    }
  ]
}
```

```

],
"stateDetails": [],
"orderHint": 0,
"percentDone": 20.25,
"startTime": "2020-08-06T12:24:52.256624Z",
"endTime": "2020-08-06T12:26:52.256624Z",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```

{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}

```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_stateTransition

| Name | Type | Required | Description |
|------|---------------|----------|-------------|
| from | string | True | |
| to | array[string] | True | |

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|------|--------|----------|-------------------------------------|
| name | string | True | Name of the invalid query parameter |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| reason | string | True | Reason why the query parameter is invalid |

Token

Token overview

The Token API enables users to create and manage API access tokens.

Create a new token for a user in a group

POST /accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens

Indicates desired values for the Token API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |

Request Body

Indicates desired values for the Token API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-token" |

| Name | Type | Required | Description |
|----------|--|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| name | string | True | JSON string containing a token name. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 63 This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "Snapshot Script"
}

```

Response

Status: 201, Returns the newly created token resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a token name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | True | JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| token | string | True | <p>JSON string containing a base64-encoded system-generated API token. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "token": "QSBKV1QgVG9rZW4gd291bGQgZ28gaGVyZS4=",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the tokens for a user in a group

GET /accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: token_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-tokens",
  "version": "1.0",
  "items": [
    [
      "4e99da96-152e-4aee-9207-4b6d04d2238d",
      "Snapshot Script"
    ],
    [
      "43ab09af-e558-4b1b-a6d5-49df7c39f22c",
      "Snapshot Taker"
    ],
    [
      "cca48856-9e25-4170-b49a-d32265c5e5f1",
      "Volume Checker"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

token_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------|--|----------|---|
| name | string | True | <p>JSON string containing a token name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | True | <p>JSON string containing the UUID for the user that the token is associated with. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|----------|--------|----------|-------------|
| continue | string | False | |

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a token for a user in a group

GET

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens/{token_id}

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| token_id | string | path | True | ID of the token collection to list |

Response

Status: 200

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a token name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | True | JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```


Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a token for a user in a group

PUT

```
/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens/{token_id}
```

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| token_id | string | path | True | ID of the token collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| name | string | False | <p>JSON string containing a token name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | False | <p>JSON string containing the UUID for the user that the token is associated with. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "New Token Name"
}
```

Response

Status: 204, Indicates if the token resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a token for a user in a group

DELETE

```
/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/tokens/{token_id}
```

Removes the specified Token API resource.

Side Effects

- The corresponding API token credential is removed from the credential service as a side effect.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| token_id | string | path | True | ID of the token collection to list |

Response

Status: 204, Indicates if the token resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new token for a user

POST /accounts/{account_id}/core/v1/users/{user_id}/tokens

Indicates desired values for the Token API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |

Request Body

Indicates desired values for the Token API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0" |

| Name | Type | Required | Description |
|----------|--|----------|--|
| name | string | True | <p>JSON string containing a token name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "Snapshot Script"
}
```

Response

Status: 201, Returns the newly created token resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a token name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | True | JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| token | string | True | <p>JSON string containing a base64-encoded system-generated API token. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the base64 Encoded Data Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```

{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "token": "QSBKV1QgVG9rZW4gd291bGQgZ28gaGVyZS4=",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}

```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the tokens for a user

GET /accounts/{account_id}/core/v1/users/{user_id}/tokens

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata=""></continue> OpenAPI examples: "<continue token="" from="" collection="" metadata=""></continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: token_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-tokens",
  "version": "1.0",
  "items": [
    [
      "4e99da96-152e-4aee-9207-4b6d04d2238d",
      "Snapshot Script"
    ],
    [
      "43ab09af-e558-4b1b-a6d5-49df7c39f22c",
      "Snapshot Taker"
    ],
    [
      "cca48856-9e25-4170-b49a-d32265c5e5f1",
      "Volume Checker"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

token_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------|--|----------|---|
| name | string | True | <p>JSON string containing a token name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | True | <p>JSON string containing the UUID for the user that the token is associated with. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|----------|--------|----------|-------------|
| continue | string | False | |

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a token

GET /accounts/{account_id}/core/v1/users/{user_id}/tokens/{token_id}

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| token_id | string | path | True | ID of the token collection to list |

Response

Status: 200

Returns the stored Token API resource in the JSON response body.

- The "token" key/value will not be returned.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a token name. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | True | JSON string containing the UUID for the user that the token is associated with. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "id": "822fab12-c224-5d1f-8118-5fb5d2def8b9",
  "name": "Snapshot Script",
  "userID": "09f8933c-ad74-4f4e-8ef5-1ffaa0fb8e9b",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a token

PUT /accounts/{account_id}/core/v1/users/{user_id}/tokens/{token_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| token_id | string | path | True | ID of the token collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-token" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------|----------------------------|----------|--|
| name | string | False | <p>JSON string containing a token name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks. |
| userID | string | False | <p>JSON string containing the UUID for the user that the token is associated with. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-token",
  "version": "1.0",
  "name": "New Token Name"
}
```

Response

Status: 204, Indicates if the token resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a token

DELETE /accounts/{account_id}/core/v1/users/{user_id}/tokens/{token_id}

Removes the specified Token API resource.

Side Effects

- The corresponding API token credential is removed from the credential service as a side effect.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| token_id | string | path | True | ID of the token collection to list |

Response

```
Status: 204, Indicates if the token resource was deleted.
```

Response

```
Status: 401, Unauthorized
```

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Unread Notification

Unread Notification overview

The Unread Notification API provides information on notifications that have not been read by a given user and to allow them to be marked as read.

List the unread notifications for a user in a group

GET

`/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/unreadNotifications`

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: notificationID,sequenceCount |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> <ul style="list-style-type: none"> example: 2 |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> <ul style="list-style-type: none"> • example: count%20desc |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |
| count | string | query | False | <p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> • example: true |
| continue | | query | False | <p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: unreadNotification_1.0_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-unreadNotifications",
  "version": "1.0",
  "items": [
    [
      "4080cf5f-2261-4130-b8fb-8432e2e553e6",
      48923
    ],
    [
      "1b4e89f1-2e70-4a08-a015-e7064b0fb703",
      47345
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

unreadNotification_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-unreadNotification" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| notificationID | string | True | JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema |
| sequenceCount | number | True | JSON number containing a sequence count associated with the notification specified by the notification ID. |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an unread notification for a user in a group

GET

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/unreadNotifications/{unreadNotification_id}

Returns the stored Unread Notification API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-----------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| unreadNotification_id | string | path | True | ID of the unreadNotification collection to list |

Response

Status: 200, Returns the stored Unread Notification API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-unreadNotification" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| notificationID | string | True | <p>JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sequenceCount | number | True | <p>JSON number containing a sequence count associated with the notification specified by the notification ID.</p> |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-unreadNotification",
  "version": "1.0",
  "id": "10df997b-629e-50f8-bc5f-a18b9a4ac5f6",
  "notificationID": "4080cf5f-2261-4130-b8fb-8432e2e553e6",
  "sequenceCount": 48923,
  "severity": "warning",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete an unread notification for a user in a group

DELETE

/accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}/unreadNotifications/{unreadNotification_id}

Removes the specified Unread Notification API resource.

Parameters

| Name | Type | In | Required | Description |
|-----------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the containing user resource |
| unreadNotification_id | string | path | True | ID of the unreadNotification collection to list |

Response

Status: 204, Indicates if the unreadNotification resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the unread notifications for a user

GET /accounts/{account_id}/core/v1/users/{user_id}/unreadNotifications

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: <code>notificationID,sequenceCount</code> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> <ul style="list-style-type: none"> • example: 2 |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> <ul style="list-style-type: none"> example: count%20desc |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |
| count | string | query | False | <p>Indicates if the total number of resources should be returned in the metadata object.</p> <p>URL examples: "count=true"</p> <p>OpenAPI examples: "true"</p> <ul style="list-style-type: none"> example: true |

| Name | Type | In | Required | Description |
|----------|------|-------|----------|--|
| continue | | query | False | <p>Indicates the token to resume listing from.</p> <p>URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue></p> <p>OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue>&lt;/continue&gt;</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: unreadNotification_1.0_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-unreadNotifications",
  "version": "1.0",
  "items": [
    [
      "4080cf5f-2261-4130-b8fb-8432e2e553e6",
      48923
    ],
    [
      "1b4e89f1-2e70-4a08-a015-e7064b0fb703",
      47345
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

unreadNotification_1.0_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-unreadNotification" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| notificationID | string | True | JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema |
| sequenceCount | number | True | JSON number containing a sequence count associated with the notification specified by the notification ID. |

| Name | Type | Required | Description |
|----------|--------|----------|---|
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an unread notification

GET

/accounts/{account_id}/core/v1/users/{user_id}/unreadNotifications/{unreadNotification_id}

Returns the stored Unread Notification API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-----------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the containing user resource |
| unreadNotification_id | string | path | True | ID of the unreadNotification collection to list |

Response

Status: 200, Returns the stored Unread Notification API resource in the JSON response body.

| Name | Type | Required | Description |
|----------------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-unreadNotification" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| notificationID | string | True | JSON string containing a notification ID that is to be marked as read by the user creating the mark. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|---------------|--------|----------|---|
| sequenceCount | number | True | JSON number containing a sequence count associated with the notification specified by the notification ID. |
| severity | string | True | <p>JSON string containing one of the following values that indicate the severity of the event. Defined values are:</p> <ul style="list-style-type: none"> • "cleared" - Indicates that a previously reported event describing a condition is no longer active. An event with severity "cleared" will use the same summary and correlation ID to enable it to be matched up • "indeterminate" - Indicates that the severity cannot be determined • "informational" - Indicates a change in state that is both expected and normal (not defined in X.733) • "warning" - Indicates the detection of a potential or impending service-affecting fault before any significant effects have been felt • "critical" - Indicates that a service-affecting condition has occurred and immediate corrective action is required |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-unreadNotification",
  "version": "1.0",
  "id": "10df997b-629e-50f8-bc5f-a18b9a4ac5f6",
  "notificationID": "4080cf5f-2261-4130-b8fb-8432e2e553e6",
  "sequenceCount": 48923,
  "severity": "warning",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|-------------------------|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Delete an unread notification

DELETE

/accounts/{account_id}/core/v1/users/{user_id}/unreadNotifications/{unreadNotification_id}

Removes the specified Unread Notification API resource.

Parameters

| Name | Type | In | Required | Description |
|-----------------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| user_id | string | path | True | ID of the containing user resource |
| unreadNotification_id | string | path | True | ID of the unreadNotification collection to list |

Response

Status: 204, Indicates if the unreadNotification resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```


Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Upgrade

Upgrade overview

The Upgrade App API provides access to software components that are eligible for upgrade, and to initiate upgrades. The availability of upgrades is determined based on packages registered with the Packages API.

List all upgrades

GET /accounts/{account_id}/core/v1/upgrades

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: id,componentName,upgradeVersion |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: upgrade_1.1_get_response_body, array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-upgrades",
  "version": "1.1",
  "items": [
    [
      "01982783-b1eb-4dca-a3fe-a385a3186c53",
      "acc",
      "21.07.1"
    ],
    [
      "0a5abab2-39b2-4101-87b9-0d9b8f537ca1",
      "acc",
      "21.07.2"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```


Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

upgrade_1.1_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-upgrade" |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| componentName | string | True | JSON string containing the name of the type of software that can be upgraded. Defined values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| componentInstance | string | True | JSON string containing the URI of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| componentID | string | True | JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| upgradeVersion | string | True | <p>JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| currentVersion | string | True | <p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| dependencies | array[string] | True | <p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------|--------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the upgrade. If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state. Defined values are:</p> <ul style="list-style-type: none">• "unavailable" - The upgrade is not available at this time• "proposed" - The upgrade is proposed but will not automatically run until approved• "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources• "running" - The upgrade is in progress• "complete" - The upgrade has completed• "failed" - The upgrade did not complete |

| Name | Type | Required | Description |
|--------------|--------------------------------|----------|--|
| stateDesired | string | True | <p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "proposed" - The upgrade is not approved and must not be performed • "scheduled" - The upgrade is approved and must be performed in the specified time window • "running" - The upgrade must be performed immediately, regardless of the time window |
| stateDetails | array[type_astra_stateDe tail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve an upgrade

GET /accounts/{account_id}/core/v1/upgrades/{upgrade_id}

Returns the stored Upgrade API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| upgrade_id | string | path | True | ID of the upgrade collection to list |

Response

Status: 200, Returns the stored Upgrade API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-upgrade" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-------------------|--------|----------|--|
| componentName | string | True | <p>JSON string containing the name of the type of software that can be upgraded. Defined values are:</p> <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| componentInstance | string | True | <p>JSON string containing the URI of the component that can be upgraded. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| componentID | string | True | <p>JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| upgradeVersion | string | True | <p>JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| currentVersion | string | True | <p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| dependencies | array[string] | True | <p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| state | string | True | <p>JSON string containing a value indicating the operational state of the upgrade. If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state. Defined values are:</p> <ul style="list-style-type: none"> • "unavailable" - The upgrade is not available at this time • "proposed" - The upgrade is proposed but will not automatically run until approved • "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources • "running" - The upgrade is in progress • "complete" - The upgrade has completed • "failed" - The upgrade did not complete |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateDesired | string | True | <p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "proposed" - The upgrade is not approved and must not be performed • "scheduled" - The upgrade is approved and must be performed in the specified time window • "running" - The upgrade must be performed immediately, regardless of the time window |
| stateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-upgrade",
  "version": "1.1",
  "id": "aa9a8e88-c012-55b1-b514-7cd94dc79008",
  "componentName": "trident",
  "componentInstance": "https://<dns_name>/accounts/0b311ae7-d89a-4a11-
a52c-1349ca090415/topology/v1/clouds/fdda3ff3-a46a-43a4-902e-
444fde2baeba/storageBackends/72d19c3c-eb43-4bec-b23e-a228c900aded",
  "componentID": "72d19c3c-eb43-4bec-b23e-a228c900aded",
  "upgradeVersion": "21.07.1",
  "currentVersion": "21.04.1",
  "dependencies": [],
  "state": "scheduled",
  "stateDesired": "scheduled",
  "stateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify an upgrade

PUT /accounts/{account_id}/core/v1/upgrades/{upgrade_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Upgrades are scheduled or run based on desired state.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">• example: <code>{{.Account}}</code> |
| upgrade_id | string | path | True | ID of the upgrade collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Side Effects

- Upgrades are scheduled or run based on desired state.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-upgrade" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1" |

| Name | Type | Required | Description |
|-------------------|--------|----------|---|
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| componentName | string | False | JSON string containing the name of the type of software that can be upgraded. Defined values are: <ul style="list-style-type: none"> • "acc" • "acs" • "trident" • "kubernetes" |
| componentInstance | string | False | JSON string containing the URI of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> • Minimum length: 3 • Maximum length: 4095 |
| componentID | string | False | JSON string containing a globally unique identifier of the component that can be upgraded. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| upgradeVersion | string | False | JSON string containing the SemVer of the software image file that can be upgraded to. Defined values are: <ul style="list-style-type: none"> • Conforms to the SemVer Schema |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| currentVersion | string | False | <p>JSON string containing the current SemVer of the entity to be upgraded. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the SemVer Schema |
| dependencies | array[string] | False | <p>JSON array of JSON strings, each containing the UUID of an upgrade that must be completed before this upgrade can proceed. Used to determine which upgrades will be performed as prerequisites and in which order. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| state | string | False | <p>JSON string containing a value indicating the operational state of the upgrade. If auto-upgrade is enabled, upgrades will start in the "scheduled" state. Otherwise, upgrades will start in the "proposed" state. Defined values are:</p> <ul style="list-style-type: none"> • "unavailable" - The upgrade is not available at this time • "proposed" - The upgrade is proposed but will not automatically run until approved • "scheduled" - The upgrade is approved but is not ready to be installed due to dependencies, time windows, or available resources • "running" - The upgrade is in progress • "complete" - The upgrade has completed • "failed" - The upgrade did not complete |

| Name | Type | Required | Description |
|--------------|-------------------------------|----------|--|
| stateDesired | string | False | <p>JSON string containing a value indicating the desired state for "state". This field is only included when the user can directly request a change in the state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "proposed" - The upgrade is not approved and must not be performed • "scheduled" - The upgrade is approved and must be performed in the specified time window • "running" - The upgrade must be performed immediately, regardless of the time window |
| stateDetails | array[type_astra_stateDetail] | False | <p>JSON array of JSON objects that lists additional details about the current "state". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-upgrade",
  "version": "1.1",
  "stateDesired": "running"
}
```

Response

Status: 204, Indicates if the upgrade resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

User

User overview

The User API represents users who are able to interact with the system.

Create a new user for a group

POST /accounts/{account_id}/core/v1/groups/{group_id}/users

Indicates desired values for the User API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |

Request Body

Indicates desired values for the User API resource to be created.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-user" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| authID | string | False | JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | False | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | False | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|-------------------------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | False | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |

| Name | Type | Required | Description |
|----------|--|----------|---|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
}
```

Response

Status: 201, Returns the newly created user resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-user" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| state | string | True | JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| isEnabled | string | True | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |
| authID | string | False | <p>JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | True | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | True | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | True | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|----------------------------|----------|--|
| lastActTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "pending",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoo@example.com'>jdoo@example.com</a>",
  "sendWelcomeEmail": "true",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```


Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List the users for a group

GET /accounts/{account_id}/core/v1/groups/{group_id}/users

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> • example: id,email |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: user_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-users",
  "version": "1.2",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "<a href='mailto:ssmith@example.com'>:ssmith@example.com</a>"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "<a href='mailto:wjohns@example.com'>wjohns@example.com</a>"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

user_1.2_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-user" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the user. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |
| isEnabled | string | True | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| authID | string | False | JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "ldap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | True | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | True | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | True | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| lastActTimestamp | string | False | JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are: <ul style="list-style-type: none"> Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a user for a group

GET /accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}

Returns the stored User API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the user collection to list |

Response

Status: 200, Returns the stored User API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-user" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| state | string | True | JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| isEnabled | string | True | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |
| authID | string | False | <p>JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | True | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | True | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | True | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|----------------------------|----------|--|
| lastActTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "active",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "companyName": "NetApp, Inc.",
  "email": "<a href='mailto:jd@exampl.com'>jd@exampl.com</a>",
  "phone": "408-555-2222",
  "postalAddress": {
    "addressCountry": "US",
    "addressLocality": "Sunnyvale",
    "addressRegion": "California",
    "postalCode": "94089",
    "streetAddress1": "495 East Java Drive"
  },
  "sendWelcomeEmail": "true",
  "enableTimestamp": "2020-08-05T14:24:54.128427Z",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a user for a group

PUT /accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the user collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-user" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| state | string | False | JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| isEnabled | string | False | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |
| authID | string | False | <p>JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | False | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | False | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | False | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | False | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|----------------------------|----------|--|
| lastActTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Dale",
  "email": "<a href='mailto:jdale@example.com'>jdale@example.com</a>"
}
```

Response

Status: 204, Indicates if the user resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a user for a group

DELETE /accounts/{account_id}/core/v1/groups/{group_id}/users/{user_id}

Removes the specified User API resource.

Side Effects

- The following resources associated with the user are deleted: notificationMarks, tokens, and all roleBindings referring to the user.
- For a user with "authProvider" as "local", the linked credential with "keyType" as "passwordHash" will also be deleted.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |
| group_id | string | path | True | ID of the containing group resource |
| user_id | string | path | True | ID of the user collection to list |

Response

Status: 204, Indicates if the user resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Create a new user

POST /accounts/{account_id}/core/v1/users

Indicates desired values for the User API resource to be created.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |

Request Body

Indicates desired values for the User API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-user" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2" |
| authID | string | False | JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | False | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | False | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|-------------------------------|----------|---|
| postalAddress | postalAddress | False | <p>JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.</p> |
| sendWelcomeEmail | string | False | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |

| Name | Type | Required | Description |
|----------|--|----------|--|
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
}
```

Response

Status: 201, Returns the newly created user resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|---|
| type | string | True | <p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> "application/astra-user" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| state | string | True | JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| isEnabled | string | True | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |
| authID | string | False | <p>JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | True | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | True | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | True | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|----------------------------|----------|--|
| lastActTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "pending",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "email": "<a href='mailto:jdoo@example.com'>jdoo@example.com</a>",
  "sendWelcomeEmail": "true",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```


Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

List all users

GET /accounts/{account_id}/core/v1/users

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: {{.Account}} |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|---|
| include | string | query | False | <p>Indicates which fields should be returned when listing a collection.</p> <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> • example: id,email |
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

| Name | Type | In | Required | Description |
|---------|--------|-------|----------|--|
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |
| orderBy | string | query | False | <p>Indicates the sort order of resource when listing a collection.</p> <p>URL examples: "orderBy=name", "orderBy=name%20desc"</p> <p>OpenAPI examples: "name desc"</p> |
| skip | string | query | False | <p>Indicates the number of resources to skip over when listing a collection.</p> <p>URL examples: "skip=1"</p> <p>OpenAPI examples: "1"</p> |

| Name | Type | In | Required | Description |
|----------|--------|-------|----------|--|
| count | string | query | False | Indicates if the total number of resources should be returned in the metadata object. URL examples: "count=true" OpenAPI examples: "true" |
| continue | | query | False | Indicates the token to resume listing from. URL examples: "continue=<continue token="" from="" collection="" metadata="">"</continue> OpenAPI examples: "<continue token="" from="" collection="" metadata="">"</continue></continue>" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: user_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-users",
  "version": "1.2",
  "items": [
    [
      "11c0cfa1-4f27-4ef7-a21c-cb452fc5c9aa",
      "<a href='mailto:jdoe@example.com'>jdoe@example.com</a>"
    ],
    [
      "e324ec3a-706d-4f57-a95d-1d88c03e7b73",
      "<a href='mailto:ssmith@example.com'>:ssmith@example.com</a>"
    ],
    [
      "3070c84d-129b-4017-82a8-2c26a42dd77e",
      "<a href='mailto:wjohns@example.com'>wjohns@example.com</a>"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|------|--------|----------|-------------|
| type | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

user_1.2_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-user" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| state | string | True | <p>JSON string containing a value indicating the operational state of the user. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |
| isEnabled | string | True | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |

| Name | Type | Required | Description |
|--------|--------|----------|---|
| authID | string | False | JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server. |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "ldap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "ldap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "ldap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | True | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | True | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | True | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|--|----------|--|
| lastActTimestamp | string | False | JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are: <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a user

GET /accounts/{account_id}/core/v1/users/{user_id}

Returns the stored User API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the user collection to list |

Response

Status: 200, Returns the stored User API resource in the JSON response body.

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-user" |

| Name | Type | Required | Description |
|---------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| state | string | True | JSON string containing a value indicating the operational state of the user. Defined values are: <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| isEnabled | string | True | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |
| authID | string | False | <p>JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | True | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | True | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | True | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | True | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|----------------------------|----------|--|
| lastActTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example response

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "id": "5bad8e04-e2fd-5c43-98d7-300580993f49",
  "state": "active",
  "isEnabled": "true",
  "authID": "HteLK3hk28sdbDLKHReB",
  "authProvider": "cloud-central",
  "firstName": "John",
  "lastName": "Doe",
  "companyName": "NetApp, Inc.",
  "email": "<a href='mailto:jd@exampl.com'>jd@exampl.com</a>",
  "phone": "408-555-2222",
  "postalAddress": {
    "addressCountry": "US",
    "addressLocality": "Sunnyvale",
    "addressRegion": "California",
    "postalCode": "94089",
    "streetAddress1": "495 East Java Drive"
  },
  "sendWelcomeEmail": "true",
  "enableTimestamp": "2020-08-05T14:24:54.128427Z",
  "lastActTimestamp": "2020-08-05T14:24:54.128427Z",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Modify a user

PUT /accounts/{account_id}/core/v1/users/{user_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the user collection to list |

Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-user" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" |

| Name | Type | Required | Description |
|-------|--------|----------|--|
| id | string | False | <p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| state | string | False | <p>JSON string containing a value indicating the operational state of the user. Defined values are:</p> <ul style="list-style-type: none"> • "pending" - The user account is in the process of being created. The user can only read and modify the user resource (default value). • This state is not valid for a user with "authProvider" as "local" • "active" - The user account is operational (The user can log in if the account setting "isEnabled" is "true"). • This is the default value for a user with "authProvider" as "local" • "suspended" - The user account is suspended (The user cannot log in regardless of account "isEnabled" setting). |

| Name | Type | Required | Description |
|-----------|--------|----------|--|
| isEnabled | string | False | <p>JSON string indicating if the user is allowed to log in. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The user is allowed to log in; default value on create. • "false" - The user is not allowed to log in. |
| authID | string | False | <p>JSON string containing the identifier associated with an external identity provider. The contents of this string depend on the specified authProvider. For a user with "authProvider" as "local", "authID" is set to the value of "email". For a user with "authProvider" as "ldap", "authID" is set to its Distinguished Name (DN) from the LDAP server.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| authProvider | string | False | <p>JSON string indicating the context of the idAuth identifier. Defined values are:</p> <ul style="list-style-type: none"> • "cloud-central" - User authentication comes from the NetApp Cloud Central service • "local" - User authentication comes from the local user/password store • "Idap" - User authentication comes from an external LDAP server In Astra Control Center, all users are required to have a value of "local", or "Idap". If a value is not specified, a default value of "local" is chosen. In Astra Control Service, "authProvider" as "local", or "Idap" is not supported. If a value is not specified, it will default to "cloud-central". |
| firstName | string | False | <p>JSON string containing a user-specified long form first name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| lastName | string | False | <p>JSON string containing a user-specified long-form last name. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| companyName | string | False | <p>JSON string containing the company name associated with the user. If this key does not exist, it indicates that a company name has not been provided. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 • This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks |
| email | string | False | <p>JSON strings containing a user-specified email address.</p> |
| phone | string | False | <p>JSON string containing the phone number of the user. If this key does not exist, it indicates that a phone number has not been provided.</p> |

| Name | Type | Required | Description |
|------------------|---------------|----------|---|
| postalAddress | postalAddress | False | JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty. |
| sendWelcomeEmail | string | False | <p>JSON string indicating whether a welcome email will be sent after validation. If not specified on create, the value will be set to "true" for ACS and "false" for Astra Control Center. Defined values are:</p> <ul style="list-style-type: none"> • "true" - A welcome email will be sent; default value on create • "false" - A welcome email will not be sent For a user with "authProvider" as "local" or "ldap", this value is ignored and is set to "false". |
| enableTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the user was last enabled. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |

| Name | Type | Required | Description |
|------------------|----------------------------|----------|--|
| lastActTimestamp | string | False | <p>JSON string containing an ISO-8601 formatted timestamp indicating when the identity API was last invoked on behalf of this user. (Note: This is expensive.) Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the ISO-8601 Date Time Schema |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```
{
  "type": "application/astra-user",
  "version": "1.2",
  "firstName": "John",
  "lastName": "Dale",
  "email": "<a href='mailto:jdale@example.com'>jdale@example.com</a>"
}
```

Response

Status: 204, Indicates if the user resource was updated.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 409, Conflict

| Name | Type | Required | Description |
|---------------|----------------------|----------|-------------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidFields | array[invalidFields] | False | List of invalid request body fields |

Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

postalAddress

JSON object containing a collection of fields that specifies an address. If this key does not exist, it indicates that an address has not been provided. If this key exists, all six of the contained fields will be present. If nothing was provided by the user, the string will be empty.

| Name | Type | Required | Description |
|-----------------|--------|----------|---|
| addressCountry | string | True | JSON string containing the country name or country code associated with the postal address, as specified in ISO 3166 Alpha-2. Defined values are: <ul style="list-style-type: none">• Minimum length: 2• Maximum length: 2 |
| addressLocality | string | True | JSON string containing the locality (for example, city) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| addressRegion | string | True | JSON string containing the region (for example, state) associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |
| postalCode | string | True | JSON string containing the postal code associated with the postal address. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| streetAddress1 | string | True | JSON string containing the street address associated with the postal address. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |
| streetAddress2 | string | False | JSON string containing optional ancillary street address information, post office box, and so on. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

invalidFields

| Name | Type | Required | Description |
|--------|--------|----------|--|
| name | string | True | Name of the invalid request body field |
| reason | string | True | Reason why the request body field is invalid |

Delete a user

DELETE /accounts/{account_id}/core/v1/users/{user_id}

Removes the specified User API resource.

Side Effects

- The following resources associated with the user are deleted: notificationMarks, tokens, and all roleBindings referring to the user.
- For a user with "authProvider" as "local", the linked credential with "keyType" as "passwordHash" will also be deleted.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> • example: <code>{{.Account}}</code> |
| user_id | string | path | True | ID of the user collection to list |

Response

Status: 204, Indicates if the user resource was deleted.

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Volume

Volume overview

The Volume API provides visibility into Kubernetes volumes associated with applications.

List the volumes for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|---|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> example: <code>id,name</code> |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: volume_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

volume_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-volume" |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| creationToken | string | False | <p>JSON string containing the creation token of the volume. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |
| exportPolicy | string | False | <p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p> |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a volume for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/volumes/{volume_id}

Returns the stored Volume API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| managedCluster_id | string | path | True | ID of the containing managedCluster resource |
| volume_id | string | path | True | ID of the volume collection to list |

Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-volume" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |
| creationToken | string | False | JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| exportPolicy | string | False | JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes. |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the volumes for a storage backend

GET

/accounts/{account_id}/topology/v1/storageBackends/{storageBackend_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| storageBackend_id | string | path | True | ID of the containing storageBackend resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: volume_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

volume_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-volume" |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| creationToken | string | False | <p>JSON string containing the creation token of the volume. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |
| exportPolicy | string | False | <p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p> |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a volume for a storage backend

GET

/accounts/{account_id}/topology/v1/storageBackends/{storageBackend_id}/volumes/{volume_id}

Returns the stored Volume API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|-------------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| storageBackend_id | string | path | True | ID of the containing storageBackend resource |
| volume_id | string | path | True | ID of the volume collection to list |

Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-volume" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |
| creationToken | string | False | JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| exportPolicy | string | False | JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes. |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List all volumes

GET /accounts/{account_id}/topology/v1/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: volume_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

volume_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-volume" |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| creationToken | string | False | <p>JSON string containing the creation token of the volume. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |
| exportPolicy | string | False | <p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p> |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a volume

GET /accounts/{account_id}/topology/v1/volumes/{volume_id}

Returns the stored Volume API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none"> example: <code>{{.Account}}</code> |
| volume_id | string | path | True | ID of the volume collection to list |

Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-volume" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> Minimum length: 1 Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |
| creationToken | string | False | JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| snapshotPossible | string | False | JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are: <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |
| exportPolicy | string | False | <p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p> |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|--|
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 1000000000,
  "usedPercentage": 10,
  "total": 1000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```


Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

List the volumes for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/volumes

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|-------|----------|--|
| account_id | string | path | True | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: id,name |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: volume_1.2_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-volumes",
  "version": "1.2",
  "items": [
    [
      "24fe6e79-bf8d-45c9-96af-ef1d11fbd4a0",
      "myVolume"
    ],
    [
      "20a370f4-957f-446a-9126-08853d01933a",
      "secondVol"
    ],
    [
      "48e349a2-5bcd-4c59-896c-12b8240e634b",
      "smallVol"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

volume_1.2_get_response_body

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-volume" |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |

| Name | Type | Required | Description |
|------------------|--------|----------|---|
| creationToken | string | False | <p>JSON string containing the creation token of the volume. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |
| exportPolicy | string | False | <p>JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes.</p> |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|--|
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |

| Name | Type | Required | Description |
|----------|-------------------------------------|----------|---|
| metadata | type_astra_metadata | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema |

type_astra_metadata_list

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| continue | string | False | |
| count | number | False | |
| labels | array[type_astra_label] | False | |
| creationTimestamp | string | False | |
| modificationTimestamp | string | False | |
| createdBy | string | False | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

Retrieve a volume for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/volumes/{volume_id}

Returns the stored Volume API resource in the JSON response body.

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| account_id | string | path | True | ID of the containing account resource • example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| volume_id | string | path | True | ID of the volume collection to list |

Response

Status: 200, Returns the stored Volume API resource in the JSON response body.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: • "application/astra-volume" |
| version | string | True | Version of the resource. Defined values are: • "1.0" • "1.1" • "1.2" |
| id | string | True | Globally unique identifier of the resource. Defined values are: • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|----------------|--------|----------|---|
| name | string | True | JSON string containing the name of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| state | string | False | JSON string containing a value indicating the operational state of the volume. |
| size | string | False | JSON string containing the size of the volume. |
| used | number | False | JSON number containing the number of bytes of quota used by the provisioned volume. |
| usedPercentage | number | False | JSON number containing the percentage of volume used. |
| total | number | False | JSON number containing the total bytes of volumes provisioned. |
| creationToken | string | False | JSON string containing the creation token of the volume. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| snapshotPossible | string | False | <p>JSON string indicating whether the driver can perform a snapshot of the volume. Defined values are:</p> <ul style="list-style-type: none"> • "true" - Driver can take a snapshot of the volume • "false" - Driver cannot take a snapshot of the volume |
| storageClass | string | False | <p>JSON string containing the storage class for the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| pvcName | string | False | <p>JSON string containing the PersistentVolumeClaim (PVC) name of the volume.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |
| internalName | string | False | <p>JSON string containing the internal name of the volume on the target storage cluster, if available. This name is obtained from the Kubernetes CSI driver.</p> <ul style="list-style-type: none"> • Defined values are: • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|------------------|---------------|----------|--|
| appsUsing | array[string] | True | <p>JSON array of JSON strings, each containing the ID of an application that is using the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageBackendID | string | False | <p>JSON string containing the ID of the storage backend that provides the volume. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| orchestrator | string | False | <p>JSON string containing the orchestrator for this volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "trident" - Trident has provisioned this volume • "vasa" - NetApp VASA Provider has provisioned this volume • "other" - The volume has been provisioned manually or the orchestrator is not known |
| serviceLevel | string | False | <p>JSON string containing the quality of service (QoS) policy defined for this volume at the storage backend level. This will be defined for Astra Data Store volumes.</p> |

| Name | Type | Required | Description |
|--------------|--------|----------|--|
| exportPolicy | string | False | JSON string containing the export policy associated with this volume. This will be defined for Astra Data Store volumes. |
| nodeId | string | False | <p>JSON string containing the node ID serving the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| healthState | string | False | <p>JSON string containing a value indicating the health state of the volume. This will be defined for Astra Data Store volumes. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification |

| Name | Type | Required | Description |
|--------------------|-------------------------------|----------|---|
| healthStateDetails | array[type_astra_stateDetail] | True | <p>JSON array of JSON objects that lists additional details about the current health. If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata | True | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema |

Example response

```
{
  "type": "application/astra-volume",
  "version": "1.2",
  "id": "ab5c9fb8-ddba-526f-8bd3-8d5b72cf4f7f",
  "name": "myVolume",
  "state": "ready",
  "size": "512 GiB",
  "used": 10000000000,
  "usedPercentage": 10,
  "total": 10000000000,
  "creationToken": "ba7d4e0c-6ae3-4b6e-859d-9463e7ca4b4e",
  "snapshotPossible": "true",
  "storageClass": "gold",
  "pvcName": "myVolume",
  "internalName": "trident_sd234234_23424_897d_876sd65w",
  "appsUsing": [],
  "orchestrator": "trident",
  "serviceLevel": "gold",
  "exportPolicy": "astra-vp-default",
  "nodeId": "94d16dd2-9beb-4edb-ab58-1a00e9a90052",
  "healthState": "normal",
  "healthStateDetails": [],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

| Name | Type | Required | Description |
|--------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

Response

Status: 400, Bad request

| Name | Type | Required | Description |
|---------------|----------------------|----------|----------------------------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |
| invalidParams | array[invalidParams] | False | List of invalid query parameters |

Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

Response

Status: 403, Forbidden

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

Error

Status: 404, Not found

| Name | Type | Required | Description |
|---------------|--------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| status | string | True | |
| correlationID | string | False | |

Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

additionalDetails

type_astra_stateDetail

| Name | Type | Required | Description |
|-------------------|-----------------------------------|----------|-------------|
| type | string | True | |
| title | string | True | |
| detail | string | True | |
| additionalDetails | additionalDetails | False | |

type_astra_label

| Name | Type | Required | Description |
|-------|--------|----------|-------------|
| name | string | True | |
| value | string | True | |

type_astra_metadata

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema

| Name | Type | Required | Description |
|-----------------------|---|----------|-------------|
| labels | array[type_astra_label] | True | |
| creationTimestamp | string | True | |
| modificationTimestamp | string | True | |
| createdBy | string | True | |
| modifiedBy | string | False | |

invalidParams

| Name | Type | Required | Description |
|--------|--------|----------|---|
| name | string | True | Name of the invalid query parameter |
| reason | string | True | Reason why the query parameter is invalid |

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