



App

Astra Automation

NetApp

December 01, 2023

目錄

| | |
|--|-----|
| App | 1 |
| App overview | 1 |
| Create a new app for a managed cluster | 1 |
| List the apps for a managed cluster | 30 |
| Retrieve an app for a managed cluster | 54 |
| Modify an app for a managed cluster | 75 |
| Delete an app for a managed cluster | 95 |
| Create a new app | 99 |
| List all apps | 128 |
| Retrieve an app | 152 |
| Modify an app | 173 |
| Delete an app | 193 |

App

App overview

The App API provides CRUD (Create-Read-Update-Delete) access to application resources in order to represent Kubernetes (K8s) applications.

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: {{.Account}} |
| 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" |

| 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 |

| 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 |

| 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": "2.1",
  "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" |
| 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 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 |
| stateTransitions | array[type_astra_stateTransitions] | 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> |

| Name | Type | Required | Description |
|-----------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDetails] | 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. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| 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 |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionStateDetails | array[type_astra_stateDetails] | 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 |
| 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 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| 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 |
| 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 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 |
|----------|----------------------------|----------|--|
| 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": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label 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 | |

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

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

type_astra_stateDetails

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

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_2.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-apps",
  "version": "2.1",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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] | 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_stateTransitions

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

type_astra_stateDetails

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

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 |

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 | |

app_2.1_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-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "2.0" • "2.1" |
| 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 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 |

| Name | Type | Required | Description |
|------------------|------------------------------------|----------|---|
| stateTransitions | array[type_astra_stateTransitions] | 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_stateDetails] | 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_stateDetails] | 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 |
|-------------|--------|----------|---|
| clusterName | string | False | JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running. |
| 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 | 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 failedOver state, this field is not returned. Defined values are: <ul style="list-style-type: none"> Conforms to the Astra Identifier 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 | |

| Name | Type | Required | Description |
|-----------------------|--------|----------|-------------|
| 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 • 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" |
| 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 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 |
| stateTransitions | array[type_astra_stateTransitions] | 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> |

| Name | Type | Required | Description |
|-----------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDetails] | 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. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| 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 |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionStateDetails | array[type_astra_stateDetails] | 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 |
| 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 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| 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 |
| 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 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 |
|----------|----------------------------|----------|--|
| 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": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |

| 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

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] | 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_stateTransitions

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

type_astra_stateDetails

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

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 |

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 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 | <ul style="list-style-type: none"> 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" |
| 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 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 |
| 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 |
| stateTransitions | array[type_astra_stateTransitions] | 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> |

| Name | Type | Required | Description |
|-----------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDetails] | 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. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| 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 |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionStateDetails | array[type_astra_stateDetails] | 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 |
| 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 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| 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 |
| 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 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 |
|----------|--|----------|--|
| 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": "2.1",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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_stateTransitions

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

type_astra_stateDetails

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

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 |

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 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

- Billing stops.
- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer show up under /apps, but it will still show up under /apps.
- If the application is not running on a cluster, the application is no longer known to the system and will no longer show up under /apps.
- All associated snapshots, backups, and the stored application state are removed.

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 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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: <code>{{.Account}}</code> |

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" |

| 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 |

| 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 |

| 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": "2.1",
  "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" |
| 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 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 |
| stateTransitions | array[type_astra_stateTransitions] | 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> |

| Name | Type | Required | Description |
|-----------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDetails] | 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. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| 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 |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionStateDetails | array[type_astra_stateDetails] | 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 |
| 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 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| 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 |
| 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 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 |
|----------|----------------------------|----------|--|
| 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": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | JSON string containing the name of the namespace on the source cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label Schema |
| destination | string | True | JSON string containing the name of the namespace on the destination cluster. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 253 • Conforms to the DNS 1123 Label 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 | |

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

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

type_astra_stateDetails

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

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: <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> |
| 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: app_2.1_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-apps",
  "version": "2.1",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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] | 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_stateTransitions

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

type_astra_stateDetails

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

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 |

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 | |

app_2.1_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-app" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "2.0" • "2.1" |
| 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 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 |

| Name | Type | Required | Description |
|------------------|------------------------------------|----------|---|
| stateTransitions | array[type_astra_stateTransitions] | 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_stateDetails] | 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_stateDetails] | 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 |
|-------------|--------|----------|---|
| clusterName | string | False | JSON string containing the name of the cluster that the application is running on. Not returned if the application is not currently running. |
| 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 failedOver state, this field is not returned. 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 | |

| Name | Type | Required | Description |
|-----------------------|--------|----------|-------------|
| 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" |
| 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 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 |
| stateTransitions | array[type_astra_stateTransitions] | 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> |

| Name | Type | Required | Description |
|-----------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDetails] | 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. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| 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 |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionStateDetails | array[type_astra_stateDetails] | 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 |
| 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 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| 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 |
| 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 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 |
|----------|----------------------------|----------|--|
| 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": "2.1",
  "id": "9703bbe7-def0-5b08-a40b-1edef8c47f7c",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |

| 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

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] | 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_stateTransitions

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

type_astra_stateDetails

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

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 |

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 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 <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 |
| forceUpdate | string | header | False | <ul style="list-style-type: none"> 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" |
| 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 |

| 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 |
| 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 |
| stateTransitions | array[type_astra_stateTransitions] | 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> |

| Name | Type | Required | Description |
|-----------------|--------------------------------|----------|--|
| stateDetails | array[type_astra_stateDetails] | 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. Defined values are:</p> <ul style="list-style-type: none"> • Minimum Items: 0 |
| 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 |

| Name | Type | Required | Description |
|------------------------|--------------------------------|----------|---|
| protectionStateDetails | array[type_astra_stateDetails] | 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 |
| 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 |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| 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 |
| 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 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 |
|----------|--|----------|--|
| 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": "2.1",
  "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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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_stateTransitions

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

type_astra_stateDetails

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

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 |

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 app

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

Removes the specified App API resource.

Side Effects

- Billing stops.
- If the application is still running on a cluster, the application is no longer considered to be under management and will no longer show up under /apps, but it will still show up under /apps.
- If the application is not running on a cluster, the application is no longer known to the system and will no longer show up under /apps.
- All associated snapshots, backups, and the stored application state are removed.

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 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 | False | |
| 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 |

版權資訊

Copyright © 2023 NetApp, Inc. 版權所有。台灣印製。非經版權所有人事先書面同意，不得將本受版權保護文件的任何部分以任何形式或任何方法（圖形、電子或機械）重製，包括影印、錄影、錄音或儲存至電子檢索系統中。

由 NetApp 版權資料衍伸之軟體必須遵守下列授權和免責聲明：

此軟體以 NETAPP「原樣」提供，不含任何明示或暗示的擔保，包括但不限於有關適售性或特定目的適用性之擔保，特此聲明。於任何情況下，就任何已造成或基於任何理論上責任之直接性、間接性、附隨性、特殊性、懲罰性或衍生性損害（包括但不限於替代商品或服務之採購；使用、資料或利潤上的損失；或企業營運中斷），無論是在使用此軟體時以任何方式所產生的契約、嚴格責任或侵權行為（包括疏忽或其他）等方面，NetApp 概不負責，即使已被告知有前述損害存在之可能性亦然。

NetApp 保留隨時變更本文所述之任何產品的權利，恕不另行通知。NetApp 不承擔因使用本文所述之產品而產生的責任或義務，除非明確經過 NetApp 書面同意。使用或購買此產品並不會在依據任何專利權、商標權或任何其他 NetApp 智慧財產權的情況下轉讓授權。

本手冊所述之產品受到一項（含）以上的美國專利、國外專利或申請中專利所保障。

有限權利說明：政府機關的使用、複製或公開揭露須受 DFARS 252.227-7013（2014 年 2 月）和 FAR 52.227-19（2007 年 12 月）中的「技術資料權利 - 非商業項目」條款 (b)(3) 小段所述之限制。

此處所含屬於商業產品和 / 或商業服務（如 FAR 2.101 所定義）的資料均為 NetApp, Inc. 所有。根據本協議提供的所有 NetApp 技術資料和電腦軟體皆屬於商業性質，並且完全由私人出資開發。美國政府對於該資料具有非專屬、非轉讓、非轉授權、全球性、有限且不可撤銷的使用權限，僅限於美國政府為傳輸此資料所訂合約所允許之範圍，並基於履行該合約之目的方可使用。除非本文另有規定，否則未經 NetApp Inc. 事前書面許可，不得逕行使用、揭露、重製、修改、履行或展示該資料。美國政府授予國防部之許可權利，僅適用於 DFARS 條款 252.227-7015(b)（2014 年 2 月）所述權利。

商標資訊

NETAPP、NETAPP 標誌及 <http://www.netapp.com/TM> 所列之標章均為 NetApp, Inc. 的商標。文中所涉及的所有其他公司或產品名稱，均為其各自所有者的商標，不得侵犯。