



Execution Hook

Astra Automation

NetApp
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Execution Hook

Execution Hook overview

The Execution Hook API enables simple management of execution hooks. Execution hooks contain additional configuration and references to a hook source resource.

Create a new execution hook

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

Indicates the desired values for the Execution Hook API resource to be created.

Parameters

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

Request Body

Indicates the desired values for the Execution Hook API resource to be created.

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">"1.0""1.1""1.2""1.3" |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | True | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}
```

Response

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

| Name | Type | Required | Description |
|----------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [],
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 409, Conflict

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

Example response

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

Response

Status: 403, Forbidden

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

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

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

type_astra_metadata_update

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

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

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

matchingCriteria

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

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

matchingContainers

| Name | Type | Required | Description |
|----------------|-----------------------|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

invalidParams

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

invalidFields

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

List all execution hooks

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

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

Parameters

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

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

Response

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

| Name | Type | Required | Description |
|----------|--|----------|-------------|
| items | array[Any of: executionHook_1.3_get_response_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.3",
  "items": [
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "4c64792c-806b-4457-938d-8e325a37c593",
      "name": "Payroll",
      "hookType": "custom",
      "matchingCriteria": [
        {
          "type": "containerImage",
          "value": "payroll"
        },
        {
          "type": "podName",
          "value": "^payroll-master"
        }
      ],
      "action": "snapshot",
      "stage": "pre",
      "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
      "arguments": [
        "freeze"
      ],
      "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
      "enabled": "true",
      "description": "Payroll production hook",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
      "name": "Order Processing",
      "hookType": "custom",
      "matchingCriteria": [
        {
```

```

        "type": "containerName",
        "value": "^order-processing$"
    },
    {
        "type": "podLabel",
        "value": "^app=master$|^app=data$"
    }
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "63f4d6fd-b7f0-4eaa-9890-0b11123604b1",
"arguments": [
    "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Order processing hook",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
}
},
{
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "NetApp Postgres Hook",
    "hookType": "netapp",
    "matchingCriteria": [
        {
            "type": "podName",
            "value": "^postgres"
        },
        {
            "type": "containerImage",
            "value": "3.8"
        }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
        "freeze"
    ],

```

```

    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  },
  {
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "Redis Hook",
    "hookType": "custom",
    "matchingCriteria": [
      {
        "type": "containerName",
        "value": "^redis-01$"
      }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
      "freeze"
    ],
    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

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

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

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

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

type_astra_metadata_update

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

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

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

executionHook_1.3_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>Name must be unique across all execution hook resources.</p> |
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | JSON string containing a user-specified description for the hook source. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

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

invalidParams

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

Retrieve an execution hook

GET /accounts/{account_id}/core/v1/executionHooks/{executionHook_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Parameters

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

Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

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

| Name | Type | Required | Description |
|----------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [
    {
      "type": "podLabel",
      "value": "^env=production$"
    },
    {
      "type": "containerName",
      "value": "^payroll-master"
    }
  ],
  "matchingImages": [
    "docker.io/bitnami/payroll:3.7.8",
    "docker.io/bitnami/payroll:4.1.2"
  ],
  "matchingContainers": [
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        },
        {
          "name": "app.kubernetes.io/managed-by",
          "value": "Helm"
        }
      ],
      "containerName": "payroll-master-0",
      "containerImage": "docker.io/bitnami/payroll:3.7.8"
    },
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "name": "app.kubernetes.io/managed-by",
      "value": "Helm"
    }
  ],
  "containerName": "payroll-master-1",
  "containerImage": "docker.io/bitnami/payroll:3.7.8"
}
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
"arguments": [
  "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Payroll production hook",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
}

```

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

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

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

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

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

type_astra_metadata_update

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

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

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

invalidParams

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

Modify an execution hook

PUT /accounts/{account_id}/core/v1/executionHooks/{executionHook_id}

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

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Parameters

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

Request Body

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

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| name | string | False | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | False | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | False | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | False | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | False | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "arguments": [
    "freeze",
    "10"
  ]
}
```

Response

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

Response

Status: 401, Unauthorized

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

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 409, Conflict

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

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

type_astra_metadata_update

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

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

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

invalidParams

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

invalidFields

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

Delete an execution hook

DELETE /accounts/{account_id}/core/v1/executionHooks/{executionHook_id}

Removes the specified Execution Hook API resource.

Side Effects

- The deleted execution hook will no longer run as part of future actions.

Parameters

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

Response

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

Response

Status: 401, Unauthorized

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

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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

Definitions

See Definitions

invalidParams

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

Create a new execution hook for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks

Indicates the desired values for the Execution Hook API resource to be created.

Parameters

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

Request Body

Indicates the desired values for the Execution Hook API resource to be created.

| Name | Type | Required | Description |
|----------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|------------------|---|----------|---|
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | True | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | False | <p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

Example request

```

{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "name": "Payroll",
  "hookType": "custom",
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook"
}

```

Response

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

| Name | Type | Required | Description |
|---------|--------|----------|--|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"• "1.2"• "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63 Name must be unique across all execution hook resources. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |

| Name | Type | Required | Description |
|--------------|--------|----------|---|
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |

| Name | Type | Required | Description |
|-------------|---------------|----------|---|
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [],
  "action": "snapshot",
  "stage": "pre",
  "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
  "arguments": [
    "freeze"
  ],
  "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
  "enabled": "true",
  "description": "Payroll production hook",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 409, Conflict

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

Example response

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

Response

Status: 403, Forbidden

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

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

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

type_astra_metadata_update

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

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

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

matchingCriteria

| Name | Type | Required | Description |
|------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |

| Name | Type | Required | Description |
|-------|--------|----------|---|
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

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

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

invalidParams

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

invalidFields

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

List the execution hooks for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks

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

Parameters

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

| Name | Type | In | Required | Description |
|--------|--------|-------|----------|--|
| limit | string | query | False | <p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p> |
| filter | string | query | False | <p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p> |

Response

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

| Name | Type | Required | Description |
|----------|---|----------|-------------|
| items | array[Any of: executionHook_1.3_get_r esponse_body , array[]] | True | |
| metadata | type_astra_metadata_list | True | |

Example response

```
{
  "type": "application/astra-executionHooks",
  "version": "1.3",
  "items": [
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "4c64792c-806b-4457-938d-8e325a37c593",
      "name": "Payroll",
      "hookType": "custom",
      "matchingCriteria": [
        {
          "type": "containerImage",
          "value": "payroll"
        },
        {
          "type": "podName",
          "value": "^payroll-master"
        }
      ],
      "action": "snapshot",
      "stage": "pre",
      "hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
      "arguments": [
        "freeze"
      ],
      "appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
      "enabled": "true",
      "description": "Payroll production hook",
      "metadata": {
        "labels": [],
        "creationTimestamp": "2020-08-06T12:24:52.256624Z",
        "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
        "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
      }
    },
    {
      "type": "application/astra-executionHook",
      "version": "1.1",
      "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
      "name": "Order Processing",
      "hookType": "custom",
      "matchingCriteria": [
        {
```

```

        "type": "containerName",
        "value": "^order-processing$"
    },
    {
        "type": "podLabel",
        "value": "^app=master$|^app=data$"
    }
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "63f4d6fd-b7f0-4eaa-9890-0b11123604b1",
"arguments": [
    "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Order processing hook",
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
}
},
{
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "NetApp Postgres Hook",
    "hookType": "netapp",
    "matchingCriteria": [
        {
            "type": "podName",
            "value": "^postgres"
        },
        {
            "type": "containerImage",
            "value": "3.8"
        }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
        "freeze"
    ],

```

```

    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  },
  {
    "type": "application/astra-executionHook",
    "version": "1.1",
    "id": "6659892c-c621-44e8-a0bb-8dbdf378a2dd",
    "name": "Redis Hook",
    "hookType": "custom",
    "matchingCriteria": [
      {
        "type": "containerName",
        "value": "^redis-01$"
      }
    ],
    "action": "snapshot",
    "stage": "pre",
    "hookSourceID": "3601ed09-1a74-4156-a1bd-9cb7144bac0e",
    "arguments": [
      "freeze"
    ],
    "enabled": "true",
    "description": "Order processing hook",
    "metadata": {
      "labels": [],
      "creationTimestamp": "2020-08-06T12:24:52.256624Z",
      "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
      "createdBy": "64182074-ddb6-42eb-b7f4-b6a02cf9ba7c"
    }
  }
],
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}

```

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

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

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

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

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

type_astra_metadata_update

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

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

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

executionHook_1.3_get_response_body

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> • "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| name | string | True | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 <p>Name must be unique across all execution hook resources.</p> |
| hookType | string | True | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |

| Name | Type | Required | Description |
|----------------|---------------|----------|---|
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |

| Name | Type | Required | Description |
|-------------|--|----------|--|
| description | string | False | JSON string containing a user-specified description for the hook source. Defined values are: <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |
| metadata | type_astra_metadata_update | True | Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification. |

type_astra_metadata_list

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

invalidParams

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

Retrieve an execution hook for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks/{executionHook_id}

Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

Parameters

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

Response

Status: 200, Returns the stored Execution Hook API resource in the JSON response body. Also populates matchingContainers and matchingImages based on the current matchingCriteria and the defined app.

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

| Name | Type | Required | Description |
|----------|--------|----------|--|
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" • "1.2" • "1.3" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| name | string | True | JSON string containing a user-specified name for the resource. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | True | JSON string defining the hook type. Defined values are: <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |

| Name | Type | Required | Description |
|--------------------|---|----------|--|
| matchingCriteria | array[matchingCriteria] | True | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| matchingContainers | array[matchingContainers] | False | <p>JSON array of JSON objects of each container that matches the configured matching criteria within the defined app.</p> |
| matchingImages | array[string] | False | <p>JSON array of JSON strings for the matching container images. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 4095 • Minimum length: 1 • Maximum length: 255 |
| action | string | True | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | True | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | True | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | True | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example response

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "id": "5f7e2e31-280d-5984-a28b-2d19ab5b77c0",
  "name": "Payroll",
  "hookType": "custom",
  "matchingCriteria": [
    {
      "type": "podLabel",
      "value": "^env=production$"
    },
    {
      "type": "containerName",
      "value": "^payroll-master"
    }
  ],
  "matchingImages": [
    "docker.io/bitnami/payroll:3.7.8",
    "docker.io/bitnami/payroll:4.1.2"
  ],
  "matchingContainers": [
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        },
        {
          "name": "app.kubernetes.io/managed-by",
          "value": "Helm"
        }
      ],
      "containerName": "payroll-master-0",
      "containerImage": "docker.io/bitnami/payroll:3.7.8"
    },
    {
      "namespaceName": "payroll-east",
      "podName": "payroll-release3-7",
      "podLabels": [
        {
          "name": "env",
          "value": "production"
        }
      ]
    }
  ]
}
```

```

    },
    {
      "name": "app.kubernetes.io/managed-by",
      "value": "Helm"
    }
  ],
  "containerName": "payroll-master-1",
  "containerImage": "docker.io/bitnami/payroll:3.7.8"
}
],
"action": "snapshot",
"stage": "pre",
"hookSourceID": "50e89023-ba84-435d-bb47-1833f4c250ff",
"arguments": [
  "freeze"
],
"appID": "7be5ae7c-151d-4230-ac39-ac1d0b33c2a9",
"enabled": "true",
"description": "Payroll production hook",
"metadata": {
  "labels": [],
  "creationTimestamp": "2022-10-06T20:58:16.305662Z",
  "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
  "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
}
}
}

```

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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


Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | True | JSON string identifying the match criteria type. |
| value | string | True | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_k8s_label

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

matchingContainers

| Name | Type | Required | Description |
|----------------|---|----------|---|
| podName | string | False | JSON string of matching container's pod name. |
| podLabels | array[type_k8s_label] | False | JSON array of label objects of matching container's pod's labels. |
| containerImage | string | False | JSON string of matching container's image. |
| containerName | string | False | JSON string of matching container's name. |
| namespaceName | string | False | JSON string of matching container's pod's namespace name. |

type_astra_label

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

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

type_astra_metadata_update

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

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

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

invalidParams

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

Modify an execution hook for an app

PUT /accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks/{executionHook_id}

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

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

Parameters

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

Request Body

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

Side Effects

- Updating an existing execution hook will impact any future actions of applications that use the updated execution hook.

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none"> "application/astra-executionHook" |
| version | string | True | Version of the resource. Defined values are: <ul style="list-style-type: none"> "1.0" "1.1" "1.2" "1.3" |
| id | string | False | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> Conforms to the UUIDv4 Schema |

| Name | Type | Required | Description |
|------------------|---|----------|--|
| name | string | False | <p>JSON string containing a user-specified name for the resource. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63 Name must be unique across all execution hook resources. |
| hookType | string | False | <p>JSON string defining the hook type. Defined values are:</p> <ul style="list-style-type: none"> • "netapp" - NetApp provided execution hook. • "custom" - Tied to a specific app ID. Execution hook resources with hookType "netapp" are read only. |
| matchingCriteria | array[matchingCriteria] | False | <p>JSON array of JSON objects describing the match criteria for the execution hook. When multiple matchingCriteria are specified a logical AND is applied to criteria. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 10 |
| action | string | False | <p>JSON string indicating which action the execution hook will run assuming the match criteria are met. Defined values are:</p> <ul style="list-style-type: none"> • "snapshot" • "backup" • "restore" • "failover" |

| Name | Type | Required | Description |
|--------------|---------------|----------|---|
| stage | string | False | <p>JSON string indicating the stage during the action that the hook will be executed. Defined values are:</p> <ul style="list-style-type: none"> • "pre" - The execution hook will be run before the specified action. • "post" - The execution hook will be run after the specified action. Values for action "snapshot" are "pre" and "post". Values for action "backup" are "pre" and "post". Value for action "restore" is "post". Value for action "failover" is "post". |
| hookSourceID | string | False | <p>JSON string containing the hook source ID that is run through this execution hook. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| arguments | array[string] | False | <p>JSON array of JSON strings for the arguments to the source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum items: 0 • Maximum items: 16 • Minimum length: 0 • Maximum length: 127 |

| Name | Type | Required | Description |
|-------------|--------|----------|---|
| appID | string | False | <p>JSON string containing the associated ID of the application that this hook is linked to. In essence, other matching criteria, if set. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| enabled | string | False | <p>JSON string that indicates if the execution hook is enabled. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The execution hook is enabled and will be run as specified. • "false" - The execution hook is disabled and will never run. The default value is "true". |
| description | string | False | <p>JSON string containing a user-specified description for the hook source. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 511 |

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

Example request

```
{
  "type": "application/astra-executionHook",
  "version": "1.3",
  "arguments": [
    "freeze",
    "10"
  ]
}
```

Response

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

Response

Status: 401, Unauthorized

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

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 409, Conflict

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

Example error response

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

Definitions

See Definitions

matchingCriteria

| Name | Type | Required | Description |
|-------|--------|----------|--|
| type | string | False | JSON string identifying the match criteria type. |
| value | string | False | JSON string containing a regex to match for the given match type. Regex syntax: https://github.com/google/re2/wiki/Syntax |

type_astra_label

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

type_astra_metadata_update

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

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

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

invalidParams

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

invalidFields

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

Delete an execution hook for an app

DELETE

`/accounts/{account_id}/k8s/v1/apps/{app_id}/executionHooks/{executionHook_id}`

Removes the specified Execution Hook API resource.

Side Effects

- The deleted execution hook will no longer run as part of future actions.

Parameters

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

Response

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

Response

Status: 401, Unauthorized

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

Example response

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

Response

Status: 400, Bad request

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

Example response

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

Response

Status: 403, Forbidden

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

Example response

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

Error

Status: 404, Not found

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

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

Example error response

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

Definitions

See Definitions

invalidParams

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

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