App protection

Astra Automation

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App protection

List the snapshots

You can list the snapshots that have been taken for a specific application.

Before you begin

You must have the ID of the app you want to list the snapshots for. If needed you can use the workflow List the apps to locate the application.

List the snapshots

Perform the following REST API call to list the snapshots.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps

Additional input parameters

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
app id	Path	Yes	Identifies the application owning the listed snapshots.
count	Query	No	If `count=true` the number of snapshots is included in the metadata section of the response.

Curl example: Return all snapshots for the app

```
curl --request GET \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appSnaps
" \
--include \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN"
```

Curl example: Return all snapshots for the app and the count

```
curl --request GET \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appSnaps
?count=true" \
--include \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN"
```

JSON output example


```
{
    "items": [
        {
            "type": "application/astra-appSnap",
            "version": "1.1",
            "id": "1ce34da4-bb0a-4926-b925-4a5d85dda8c2",
            "hookState": "success",
            "metadata": {
                "createdBy": "a530e865-23e8-4e2e-8020-e92c419a3867",
                "creationTimestamp": "2022-10-30T22:44:20Z",
                "modificationTimestamp": "2022-10-30T22:44:20Z",
                "labels": []
            },
            "snapshotAppAsset": "0ebfe3f8-40ed-4bdc-88c4-2144fbda85a0",
            "snapshotCreationTimestamp": "2022-10-30T22:44:33Z",
            "name": "snapshot-david-1",
            "state": "completed",
            "stateUnready": []
        }
    ],
    "metadata": {}
}
```


List the backups

You can list the backups that have been created for a specific application.

Before you begin

You must have the ID of the app you want to list the backups for. If needed you can use the workflow List the apps to locate the application.

List the backups

Perform the following REST API call.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups

Additional input parameters

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
app id	Path	Yes	Identifies the managed application owning the listed backups.

Curl example: Return all backups for the app

```
curl --request POST \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appBacku
ps" \
--include  \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN"
```

JSON output example


```
{
    "items": [
        {
            "type": "application/astra-appBackup",
            "version": "1.1",
            "id": "8edeb4a4-fd8b-4222-a559-1013145b28fc",
            "name": "backup-david-oct28-1",
            "bucketID": "a443e58f-59bd-4d45-835a-1bc7813f659a",
            "snapshotID": "dfe237cb-57b7-4576-af4d-00ba3a8f2828",
            "state": "completed",
            "stateUnready": [],
            "hookState": "success",
            "totalBytes": 205219132,
            "bytesDone": 205219132,
            "percentDone": 100,
            "metadata": {
                "labels": [
                    {
                        "name": "astra.netapp.io/labels/read-
only/triggerType",
                        "value": "backup"
                    }
                ],
                "creationTimestamp": "2022-10-28T21:58:37Z",
                "modificationTimestamp": "2022-10-28T21:58:55Z",
                "createdBy": "a530e865-23e8-4e2e-8020-e92c419a3867"
            }
        }
    ],
    "metadata": {}
}
```


Create a snapshot for an app

You can create a snapshot for a specific application.

Before you begin

You must have the ID of the app you want to create a snapshot for. If needed you can use the workflow List the apps to locate the application.

Create a snapshot

Perform the following REST API call.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps

Additional input parameters

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
app id	Path	Yes	Identifies the managed application where the snapshot will be created.
JSON	Body	Yes	Provides the parameters for the snapshot. See the example below.

Curl example: Create a snapshot for the app

```
curl --request POST \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appSnaps
" \
--include \
--header "Content-Type: application/astra-appSnap+jso" \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN" \
--data  @JSONinput
```

JSON input example

```
{
  "type": "application/astra-appSnap",
  "version": "1.1",
  "name": "snapshot-david-1"
}
```

Create a backup for an app

You can create a backup for a specific application and then use the backup to restore or clone the app.

Before you begin

You must have the ID of the app you want to back up. If needed you can use the workflow List the apps to locate the application.

Create a backup

Perform the following REST API call.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups

Additional input parameters

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
app id	Path	Yes	Identifies the application where the backup will be created.
JSON	Body	Yes	Provides the parameters for the backup. See the example below.

Curl example: Create a backup for the app

```
curl --request POST \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appBackups" \
--include \
--header "Content-Type: application/astra-appBackup+json" \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN" \
--data  @JSONinput
```

JSON input example

```
{
  "type": "application/astra-appBackup",
  "version": "1.1",
  "name": "backup-david-1"
}
```

Delete a snapshot

You can delete a snapshot associated with an application.

Before you begin

You must have the following:

- ID of the app that owns the snapshot. If needed you can use the workflow List the apps to locate the application.
- ID of the snapshot you want to delete. If needed you can use the workflow List the snapshots to locate the snapshot.

Delete the snapshot

Perform the following REST API call.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
DELETE	/accounts/{account_id}/k8s/v1/apps/{app_id}/appSnaps/{appSnap_id}

Additional input parameters

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
app id	Path	Yes	Identifies the managed application owning the snapshot.
snapshot id	Path	Yes	Identifies the snapshot to be deleted.

Curl example: Delete a single snapshot for the app

```
curl --request DELETE \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appSnaps
/<SNAPSHOT_ID>" \
--include \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN"
```

Delete a backup

You can delete a backup associated with an application.

Before you begin

You must have the following:

- ID of the app that owns the backup. If needed you can use the workflow List the apps to locate the application.

- ID of the backup you want to delete. If needed you can use the workflow List the backups to locate the snapshot.

Delete the backup

Perform the following REST API call.

You can force the deletion of a failed backup using the optional request header as described below.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
DELETE	/accounts/{account_id}/k8s/v1/apps/{app_id}/appBackups/{appBackup_id}

Additional input parameters

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
app id	Path	Yes	Identifies the managed application owning the backup.
backup id	Path	Yes	Identifies the backup to be deleted.
force delete	Header	No	Used to force the deletion of a failed backup.

Curl example: Delete a single backup for the app

```
curl --request DELETE \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appBacku
ps/<BACKUP_ID>" \
--include \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN"
```

Curl example: Delete a single backup for the app with the force option

```
curl --request DELETE \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/appBacku
ps/<BACKUP_ID>" \
--include \
--header "Force-Delete: true" \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN"
```

Create a data protection policy

You can create a data protection policy based on one or more schedules.

Step 1: Select the app

Perform the workflow List the apps and select the desired application.

Step 2: Create the protection

Perform the following REST API call to create a protection policy for a specific app.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/accounts/{account_id}/k8s/v1/apps/{app_id}/schedules

Curl example

```
curl --request POST \
--location
"https://astra.netapp.io/accounts/$ACCOUNT_ID/k8s/v1/apps/$APP_ID/schedule
s" \
--include \
--header "Accept: */*" \
--header "Authorization: Bearer $API_TOKEN" \
--data  @JSONinput
```

JSON input example

```
{
  "type": "application/astra-schedule",
  "version": "1.3",
  "name": "Backup Schedule",
  "enabled": "true",
  "granularity": "monthly",
  "minute": "0",
  "hour": "0",
  "dayOfMonth": "1",
  "snapshotRetention": "12",
  "backupRetention": "12"
}
```

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