# Manage snapshot policies and schedules

## REST API reference

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# Manage snapshot policies and schedules

## Storage snapshot-policies snapshot_policy.uuid schedules endpoint overview

### Overview

In ONTAP, scheduled snapshot creation works based on the schedules associated with snapshot policies. ONTAP provides six cluster-wide schedules: "5min", "8hour", "hourly", "daily", "weekly" and "monthly". A snapshot policy is created using at least one of these schedules and up to 5 schedules can be associated with a snapshot policy. A snapshot policy can be linked to a storage object and based on the schedule in the policy, snapshots are created on the object at that interval. Each schedule in a snapshot policy has a snapshot name prefix attached to it. Every snapshot created using this policy has this prefix in its name. There is also a retention count associated with every schedule. This count indicates the maximum number of snapshots that can exist for a given schedule. Once the snapshot count reaches the retention count, on the next create operation, the oldest snapshot is deleted. A retention period can be associated with every schedule. During snapshot creation, this period is set as SnapLock expiry time on snapshot locking enabled volumes.

A schedule can be added, modified or deleted from a snapshot policy.

### Snapshot policy schedule APIs

The following APIs are used to perform operations related to snapshot policy schedules:

– POST /api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/

– GET /api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/

– GET /api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}

– PATCH /api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}

– DELETE /api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}

### Examples

#### Adding schedule to a snapshot policy

The POST operation is used to create a schedule for a snapshot policy with the specified attributes.

```
# The API:
/api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/

# The call:
curl -X POST  "https://<mgmt-ip>/api/storage/snapshot-policies/32a0841a-
818e-11e9-b4f4-005056bbab9c/schedules" -H "accept: application/hal+json"
-d '{"schedule.uuid": "7c985d80-818a-11e9-b4f4-005056bbab9c", "count":
"5", "prefix": "new_hourly" }'

# The response:
HTTP/1.1 201 Created
Date: Wed, 29 May 2019 22:41:33 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Location: /api/storage/snapshot-policies/32a0841a-818e-11e9-b4f4-
005056bbab9c/schedules
Content-Length: 271
Content-Type: application/json
{
"num_records": 1,
"records": [
  {
    "snapshot_policy": {
      "uuid": "32a0841a-818e-11e9-b4f4-005056bbab9c"
    },
    "schedule": {
      "uuid": "7c985d80-818a-11e9-b4f4-005056bbab9c"
    },
    "count": 5,
    "prefix": "new_monthly"
  }
]
}
```

#### Retrieving snapshot policy schedules

The GET operation is used to retrieve snapshot policy schedules.

```
# The API:
/api/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/snapshot-policies/32a0841a-
818e-11e9-b4f4-005056bbab9c/schedules" -H "accept: application/hal+json"
```

```
# The response:
HTTP/1.1 200 OK
Date: Wed, 29 May 2019 22:49:58 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 898
Content-Type: application/json
{
"records": [
  {
    "snapshot_policy": {
      "uuid": "32a0841a-818e-11e9-b4f4-005056bbab9c"
    },
    "schedule": {
      "uuid": "63d017dc-818a-11e9-b4f4-005056bbab9c",
      "name": "5min"
    }
  },
  {
    "snapshot_policy": {
      "uuid": "32a0841a-818e-11e9-b4f4-005056bbab9c"
    },
    "schedule": {
      "uuid": "64a5c5da-818a-11e9-b4f4-005056bbab9c",
      "name": "8hour"
    }
  },
  {
    "snapshot_policy": {
      "uuid": "32a0841a-818e-11e9-b4f4-005056bbab9c"
    },
    "schedule": {
      "uuid": "63e21a3e-818a-11e9-b4f4-005056bbab9c",
      "name": "daily"
    }
  },
  {
    "snapshot_policy": {
      "uuid": "32a0841a-818e-11e9-b4f4-005056bbab9c"
    },
    "schedule": {
      "uuid": "7c985d80-818a-11e9-b4f4-005056bbab9c",
      "name": "monthly"
    }
```

```
  }
],
"num_records": 4
}
```

#### Retrieving the attributes of a specific snapshot policy schedule

The GET operation is used to retrieve the attributes of a specific snapshot policy schedule.

```
# The API:
/api/storage/snapshot-
policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/snapshot-policies/32a0841a-
818e-11e9-b4f4-005056bbab9c/schedules/7c985d80-818a-11e9-b4f4-
005056bbab9c" -H "accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 29 May 2019 22:54:06 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 238
Content-Type: application/json
{
"snapshot_policy": {
  "uuid": "32a0841a-818e-11e9-b4f4-005056bbab9c"
},
"schedule": {
  "uuid": "7c985d80-818a-11e9-b4f4-005056bbab9c",
  "name": "monthly"
},
"count": 5,
"prefix": "new_monthly",
"snapmirror_label": "-",
"retention_period": "PT20M"
}
```

#### Updating a snapshot policy schedule

The PATCH operation is used to update the specific attributes of a snapshot policy.

```
# The API:
/api/storage/snapshot-
policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}

# The call:
curl -X PATCH  "https://<mgmt-ip>/api/storage/snapshot-policies/32a0841a-
818e-11e9-b4f4-005056bbab9c/schedules/7c985d80-818a-11e9-b4f4-
005056bbab9c" -d '{"count": "10" }' -H "accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 29 May 2019 23:08:00 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 3
Content-Type: application/json
```

#### Deleting a snapshot policy

The DELETE operation is used to delete a snapshot policy.

```
# The API:
/api/storage/snapshot-
policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/storage/snapshot-policies/32a0841a-
818e-11e9-b4f4-005056bbab9c/schedules/7c985d80-818a-11e9-b4f4-
005056bbab9c" -H "accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 29 May 2019 23:12:32 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 3
Content-Type: application/json
```

# Retrieve snapshot policy schedules

GET `/storage/snapshot-policies/{snapshot_policy.uuid}/schedules`

**Introduced In:** 9.8

Retrieves a collection of snapshot policy schedules.

## Related ONTAP commands

- `snapshot policy show`

## Learn more

- DOC /storage/snapshot-policies/{snapshot_policy.uuid}/schedules

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| snapshot_policy.uuid | string | path | True | Snapshot policy UUID |
| retention_period | string | query | False | Filter by retention_period<br>• Introduced in: 9.12 |
| snapshot_policy.name | string | query | False | Filter by snapshot_policy.name |
| count | integer | query | False | Filter by count |
| prefix | string | query | False | Filter by prefix |
| snapmirror_label | string | query | False | Filter by snapmirror_label |
| schedule.uuid | string | query | False | Filter by schedule.uuid |
| schedule.name | string | query | False | Filter by schedule.name |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned.<br>• Default value: 1 |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.<br>• Default value: 1<br>• Max value: 120<br>• Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| num_records | integer | Number of records |
| records | array[snapshot_policy_schedule] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "prefix": "string",
      "retention_period": "string",
      "schedule": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "weekly",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "snapmirror_label": "string",
      "snapshot_policy": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "default",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      }
    }
  ]
}
```

## Error

```
Status: Default, Error
```

| Name | Type | Description |
|---|---|---|
| error | returned_error | |

**Example error**


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


## Definitions

**See Definitions**

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

| Name | Type | Description |
|---|---|---|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|---|---|---|
| self | href | |

schedule

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapshot_policy

This is a reference to the snapshot policy.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

snapshot_policy_schedule

The snapshot policy schedule object is associated with a snapshot policy and it defines the interval at which snapshots are created and deleted.

| Name | Type | Description |
|---|---|---|
| _links | _links | |

| Name | Type | Description |
|---|---|---|
| count | integer | The number of snapshots to maintain for this schedule. |
| prefix | string | The prefix to use while creating snapshots at regular intervals. |
| retention_period | string | The retention period of snapshots for this schedule. |
| schedule | schedule | |
| snapmirror_label | string | Label for SnapMirror operations |
| snapshot_policy | snapshot_policy | This is a reference to the snapshot policy. |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

returned_error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

# Add a schedule to a snapshot policy

POST `/storage/snapshot-policies/{snapshot_policy.uuid}/schedules`

**Introduced In:** 9.8

Adds a schedule to a snapshot policy.

## Required properties

- `schedule.uuid` or `schedule.name` - Schedule at which snapshots are captured on the volume.
- `count` - Number of snapshots to maintain for this schedule.

## Recommended optional properties

- `prefix` - Prefix to use when creating snapshots at regular intervals.

## Default property values

If not specified in POST, the following default property values are assigned:

- `prefix` - Value of `schedule.name`

## Related ONTAP commands

- `snapshot policy add-schedule`

## Learn more

- DOC /storage/snapshot-policies/{snapshot_policy.uuid}/schedules

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| snapshot_policy.uuid | string | path | True | Snapshot policy UUID |
| return_records | boolean | query | False | The default is false. If set to true, the records are returned.<br>• Default value: |

## Request Body

| Name | Type | Description |
|---|---|---|
| count | integer | The number of snapshots to maintain for this schedule. |
| prefix | string | The prefix to use while creating snapshots at regular intervals. |
| retention_period | string | The retention period of snapshots for this schedule. |

| Name | Type | Description |
|---|---|---|
| schedule | schedule | |
| snapmirror_label | string | Label for SnapMirror operations |
| snapshot_policy | snapshot_policy | This is a reference to the snapshot policy. |

**Example request**

```
{
  "prefix": "string",
  "retention_period": "string",
  "schedule": {
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "snapmirror_label": "string",
  "snapshot_policy": {
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
}
```

## Response

```
Status: 201, Created
```

**Headers**

| Name | Description | Type |
|---|---|---|
| Location | Useful for tracking the resource location | string |

## Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description |
| --- | --- |
| 1638407 | When adding schedule to a snapshot policy, the count for that schedule must be specified. |
| 1638410 | Specified schedule already exists in snapshot policy. |
| 1638413 | Schedule not found. |
| 1638451 | This operation would result in total snapshot count for the policy to exceed maximum supported count. |
| 1638508 | Another schedule has the same prefix within this policy. |
| 1638510 | Duplicate prefix. |
| 1638528 | This operation is not supported in a mixed-version cluster. |
| 1638531 | This operation is not supported because specified policy is owned by the cluster admin. |
| 918253 | Incorrect format for the retention period, duration must be in the ISO-8601 format. |

## Definitions

**See Definitions**

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

schedule

| Name | Type | Description |
|---|---|---|
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapshot_policy

This is a reference to the snapshot policy.

| Name | Type | Description |
|---|---|---|
| name | string | |
| uuid | string | |

snapshot_policy_schedule

The snapshot policy schedule object is associated with a snapshot policy and it defines the interval at which snapshots are created and deleted.

| Name | Type | Description |
|---|---|---|
| count | integer | The number of snapshots to maintain for this schedule. |
| prefix | string | The prefix to use while creating snapshots at regular intervals. |
| retention_period | string | The retention period of snapshots for this schedule. |
| schedule | schedule | |
| snapmirror_label | string | Label for SnapMirror operations |
| snapshot_policy | snapshot_policy | This is a reference to the snapshot policy. |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

returned_error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

# Delete a schedule from a snapshot policy

DELETE `/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}`

**Introduced In:** 9.8

Deletes a schedule from a snapshot policy

## Related ONTAP commands

- `snapshot policy remove-schedule`

## Learn more

- DOC /storage/snapshot-policies/{snapshot_policy.uuid}/schedules

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| snapshot_policy.uuid | string | path | True | Snapshot policy UUID |
| schedule.uuid | string | path | True | Snapshot policy schedule UUID |

## Response

```
Status: 200, Ok
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
| --- | --- |
| 1638411 | At least minimum number of schedule must be specified for the policy. |
| 1638412 | Schedule does not exist in snapshot policy. |

| Name | Type | Description |
| --- | --- | --- |
| error | returned_error | |

**Example error**

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

**See Definitions**

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

returned_error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

# Retrieve snapshot policy schedule details

GET `/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}`

**Introduced In:** 9.8

Retrieves details of a specific snapshot policy schedule.

## Related ONTAP commands

- `snapshot policy show`

## Learn more

- DOC /storage/snapshot-policies/{snapshot_policy.uuid}/schedules

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| snapshot_policy.uuid | string | path | True | Snapshot policy UUID |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| schedule.uuid | string | path | True | Snapshot policy schedule ID |
| fields | array[string] | query | False | Specify the fields to return. |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| count | integer | The number of snapshots to maintain for this schedule. |
| prefix | string | The prefix to use while creating snapshots at regular intervals. |
| retention_period | string | The retention period of snapshots for this schedule. |
| schedule | schedule | |
| snapmirror_label | string | Label for SnapMirror operations |
| snapshot_policy | snapshot_policy | This is a reference to the snapshot policy. |

**Example response**


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "prefix": "string",
  "retention_period": "string",
  "schedule": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "snapmirror_label": "string",
  "snapshot_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
}
```


## Error

```
Status: Default, Error
```

| Name | Type | Description |
|---|---|---|
| error | returned_error | |

**Example error**


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


## Definitions

**See Definitions**

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

| Name | Type | Description |
|---|---|---|
| self | href | |

schedule

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapshot_policy

This is a reference to the snapshot policy.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | |
| uuid | string | |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

returned_error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---|---|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

# Update a snapshot policy schedule

PATCH `/storage/snapshot-policies/{snapshot_policy.uuid}/schedules/{schedule.uuid}`

**Introduced In:** 9.8

Updates a snapshot policy schedule

## Related ONTAP commands

- `snapshot policy modify-schedule`

## Learn more

- DOC /storage/snapshot-policies/{snapshot_policy.uuid}/schedules

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| snapshot_policy.uuid | string | path | True | Snapshot policy UUID |
| schedule.uuid | string | path | True | Snapshot policy schedule UUID |

## Request Body

| Name | Type | Description |
|---|---|---|
| count | integer | The number of snapshots to maintain for this schedule. |
| retention_period | string | The retention period of snapshots for this schedule. |
| schedule | schedule | |
| snapmirror_label | string | Label for SnapMirror operations |

| Name | Type | Description |
| --- | --- | --- |
| snapshot_policy | snapshot_policy | This is a reference to the snapshot policy. |

**Example request**

```
{
  "retention_period": "string",
  "schedule": {
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "snapmirror_label": "string",
  "snapshot_policy": {
    "name": "default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
}
```

## Response

```
Status: 200, Ok
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
| --- | --- |
| 1638451 | This operation would result in total snapshot count for the policy to exceed maximum supported count. |
| 918253 | Incorrect format for the retention period, duration must be in the ISO-8601 format. |

## Definitions

**See Definitions**

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

schedule

| Name | Type | Description |
|---|---|---|
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapshot_policy

This is a reference to the snapshot policy.

| Name | Type | Description |
|---|---|---|
| name | string | |
| uuid | string | |

snapshot_policy_schedule

The snapshot policy schedule object is associated with a snapshot policy and it defines the interval at which snapshots are created and deleted.

| Name | Type | Description |
|---|---|---|
| count | integer | The number of snapshots to maintain for this schedule. |
| retention_period | string | The retention period of snapshots for this schedule. |
| schedule | schedule | |
| snapmirror_label | string | Label for SnapMirror operations |
| snapshot_policy | snapshot_policy | This is a reference to the snapshot policy. |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

returned_error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

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