



# Manage snapshot policies and schedules

## REST API reference

NetApp  
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# Manage snapshot policies and schedules

## Manage snapshot policies and schedules

### 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:

&ndash; POST /api/storage/snapshot-policies/{snapshot\_policy.uuid}/schedules/

&ndash; GET /api/storage/snapshot-policies/{snapshot\_policy.uuid}/schedules/

&ndash; GET /api/storage/snapshot-policies/{snapshot\_policy.uuid}/schedules/{schedule.uuid}

&ndash; PATCH /api/storage/snapshot-policies/{snapshot\_policy.uuid}/schedules/{schedule.uuid}

&ndash; 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
schedule.name	string	query	False	Filter by schedule.name
schedule.uuid	string	query	False	Filter by schedule.uuid
retention_period	string	query	False	Filter by retention_period <ul style="list-style-type: none"><li>• Introduced in: 9.12</li></ul>
snapshot_policy.name	string	query	False	Filter by snapshot_policy.name
prefix	string	query	False	Filter by prefix
count	integer	query	False	Filter by count
snapmirror_label	string	query	False	Filter by snapmirror_label
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
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. <ul style="list-style-type: none"> <li>• Default value: 15</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">snapshot_policy_schedule</a> ]	

## 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	<a href="#">returned_error</a>	

### 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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

schedule

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapshot\_policy

This is a reference to the snapshot policy.

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">_links</a>	

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	<a href="#">schedule</a>	
snapmirror_label	string	Label for SnapMirror operations
snapshot_policy	<a href="#">snapshot_policy</a>	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[ <a href="#">error_arguments</a> ]	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
<code>snapshot_policy.uuid</code>	string	path	True	Snapshot policy UUID
<code>return_records</code>	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"><li>• Default value:</li></ul>

## Request Body

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

Name	Type	Description
schedule	<a href="#">schedule</a>	
snapmirror_label	string	Label for SnapMirror operations
snapshot_policy	<a href="#">snapshot_policy</a>	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

<b>Error Code</b>	<b>Description</b>
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	<a href="#">schedule</a>	
snapmirror_label	string	Label for SnapMirror operations
snapshot_policy	<a href="#">snapshot_policy</a>	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[ <a href="#">error_arguments</a> ]	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	<a href="#">returned_error</a>	

### 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[ <a href="#">error_arguments</a> ]	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	<a href="#">_links</a>	
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	<a href="#">schedule</a>	
snapmirror_label	string	Label for SnapMirror operations
snapshot_policy	<a href="#">snapshot_policy</a>	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	<a href="#">returned_error</a>	

## 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	<a href="#">href</a>	

schedule

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapshot\_policy

This is a reference to the snapshot policy.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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	<a href="#">schedule</a>	
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	<a href="#">schedule</a>	
snapmirror_label	string	Label for SnapMirror operations
snapshot_policy	<a href="#">snapshot_policy</a>	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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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