



Manage volume Snapshot copies

ONTAP 9.10.1 REST API Documentation

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Table of Contents

- Manage volume Snapshot copies 1
 - Storage volumes volume.uuid snapshots endpoint overview 1
 - Retrieve volume Snapshot copies 12
 - Create a volume Snapshot copy 21
 - Delete a volume Snapshot copy 30
 - Retrieve volume Snapshot copy details 33
 - Update a volume Snapshot copy 39

Manage volume Snapshot copies

Storage volumes volume.uuid snapshots endpoint overview

Overview

A Snapshot copy is the view of the filesystem as it exists at the time when the Snapshot copy is created.

In ONTAP, different types of Snapshot copies are supported, such as scheduled Snapshot copies, user requested Snapshot copies, SnapMirror Snapshot copies, and so on.

ONTAP Snapshot copy APIs allow you to create, modify, delete and retrieve Snapshot copies.

Snapshot copy APIs

The following APIs are used to perform operations related to Snapshot copies.

– POST /api/storage/volumes/{volume.uuid}/snapshots

– GET /api/storage/volumes/{volume.uuid}/snapshots

– GET /api/storage/volumes/{volume.uuid}/snapshots/{uuid}

– PATCH /api/storage/volumes/{volume.uuid}/snapshots/{uuid}

– DELETE /api/storage/volumes/{volume.uuid}/snapshots/{uuid}

Examples

Creating a Snapshot copy

The POST operation is used to create a Snapshot copy with the specified attributes.

```
# The API:
/api/storage/volumes/{volume.uuid}/snapshots

# The call:
curl -X POST "https://<mgmt-
ip>/api/storage/volumes/{volume.uuid}/snapshots" -H "accept:
application/hal+json" -d '{"name": "snapshot_copy", "comment": "Store this
copy." }'

# The response:
HTTP/1.1 202 Accepted
Date: Wed, 13 Mar 2019 22:43:34 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Location: /api/storage/volumes/0353dc05-405f-11e9-acb6-
```

```
005056bbc848/snapshots/?name=snapshot_copy
Content-Length: 189
Content-Type: application/json
{
  "num_records": 1,
  "records": [
    {
      "volume": {
        "name": "v2"
      },
      "svm": {
        "uuid": "8139f958-3c6e-11e9-a45f-005056bbc848",
        "name": "vs0"
      },
      "name": "snapshot_copy",
      "comment": "Store this copy."
    }
  ],
  "job": {
    "uuid": "6f68c85b-45e1-11e9-8fc7-005056bbc848",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/6f68c85b-45e1-11e9-8fc7-005056bbc848"
      }
    }
  }
}
```

The Job:

```
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 22:43:57 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 224
Content-Type: application/json
{
  "uuid": "6f68c85b-45e1-11e9-8fc7-005056bbc848",
  "description": "POST /api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/?name=snapshot_copy",
  "state": "success",
  "message": "success",
  "code": 0
}
```

Retrieving Snapshot copy attributes

The GET operation is used to retrieve Snapshot copy attributes.

```
# The API:
/api/storage/volumes/{volume.uuid}/snapshots

# The call:
curl -X GET "https://<mgmt-
ip>/api/storage/volumes/{volume.uuid}/snapshots" -H "accept:
application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 21:14:06 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Type: application/json
Transfer-Encoding: chunked
{
  "records": [
    {
      "uuid": "402b6c73-73a0-4e89-a58a-75ee0ab3e8c0",
      "name": "hourly.2019-03-13_1305",
      "_links": {
        "self": {
          "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-
005056bbc848/snapshots/402b6c73-73a0-4e89-a58a-75ee0ab3e8c0"
        }
      }
    },
    {
      "uuid": "f0dd497f-efe8-44b7-a4f4-bdd3890bc0c8",
      "name": "hourly.2019-03-13_1405",
      "_links": {
        "self": {
          "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-
005056bbc848/snapshots/f0dd497f-efe8-44b7-a4f4-bdd3890bc0c8"
        }
      }
    },
    {
      "uuid": "02701900-51bd-46b8-9c77-47d9a9e2ce1d",
      "name": "hourly.2019-03-13_1522",
      "_links": {
```

```

    "self": {
      "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/02701900-51bd-46b8-9c77-47d9a9e2ce1d"
    }
  }
],
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots"
  }
}
}

```

Retrieving Snapshot copy advanced attributes

A collection GET request is used to calculate the amount of Snapshot copy reclaimable space. When the advanced privilege field 'reclaimable space' is requested, the API returns the amount of reclaimable space for the queried list of Snapshot copies.

```

# The API:
/api/storage/volumes/{volume.uuid}/snapshots?fields=reclaimable_space

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/snapshots?fields=reclaimable_space&name=hourly.2019-03-13_1305&#124;hourly.2019-03-13_1405&#124;hourly.2019-03-13_1522" -H "accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 21:14:06 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Type: application/json
Transfer-Encoding: chunked
{
"records": [
  {
    "uuid": "402b6c73-73a0-4e89-a58a-75ee0ab3e8c0",
    "name": "hourly.2019-03-13_1305",
    "_links": {
      "self": {

```

```

        "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/402b6c73-73a0-4e89-a58a-75ee0ab3e8c0"
    }
}
},
{
    "uuid": "f0dd497f-efe8-44b7-a4f4-bdd3890bc0c8",
    "name": "hourly.2019-03-13_1405",
    "_links": {
        "self": {
            "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/f0dd497f-efe8-44b7-a4f4-bdd3890bc0c8"
        }
    }
},
{
    "uuid": "02701900-51bd-46b8-9c77-47d9a9e2ce1d",
    "name": "hourly.2019-03-13_1522",
    "_links": {
        "self": {
            "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/02701900-51bd-46b8-9c77-47d9a9e2ce1d"
        }
    }
}
],
"num_records": 3,
"reclaimable_space": 1567832,
"_links": {
    "self": {
        "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots"
    }
}
}
}

```

Retrieving the attributes of a specific Snapshot copy

The GET operation is used to retrieve the attributes of a specific Snapshot copy.

```

# The API:
/api/storage/volumes/{volume.uuid}/snapshots/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/402b6c73-73a0-4e89-a58a-75ee0ab3e8c0" -H

```

```

"accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 22:39:26 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 308
Content-Type: application/json
{
  "volume": {
    "uuid": "0353dc05-405f-11e9-acb6-005056bbc848",
    "name": "v2",
    "_links": {
      "self": {
        "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848"
      }
    }
  },
  "uuid": "402b6c73-73a0-4e89-a58a-75ee0ab3e8c0",
  "svm": {
    "uuid": "8139f958-3c6e-11e9-a45f-005056bbc848",
    "name": "vs0",
    "_links": {
      "self": {
        "href": "/api/svm/svms/8139f958-3c6e-11e9-a45f-005056bbc848"
      }
    }
  },
  "name": "hourly.2019-03-13_1305",
  "create_time": "2019-03-13T13:05:00-04:00",
  "size": 122880,
  "_links": {
    "self": {
      "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/402b6c73-73a0-4e89-a58a-75ee0ab3e8c0"
    }
  }
}

```

Retrieving the advanced attributes of a specific Snapshot copy

The GET operation is used to retrieve the attributes of a specific Snapshot copy. Snapshot copy reclaimable space can be requested during a GET request. When the advanced privilege field reclaimable space is requested, the API returns the amount of reclaimable space for the Snapshot copy.


```
# The API:
/api/storage/volumes/{volume.uuid}/snapshots/{uuid}?fields=reclaimable_space

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/402b6c73-73a0-4e89-a58a-75ee0ab3e8c0?fields=**" -H "accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 22:39:26 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 308
Content-Type: application/json
{
  "volume": {
    "uuid": "0353dc05-405f-11e9-acb6-005056bbc848",
    "name": "v2",
    "_links": {
      "self": {
        "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848"
      }
    }
  },
  "uuid": "402b6c73-73a0-4e89-a58a-75ee0ab3e8c0",
  "svm": {
    "uuid": "8139f958-3c6e-11e9-a45f-005056bbc848",
    "name": "vs0",
    "_links": {
      "self": {
        "href": "/api/svm/svms/8139f958-3c6e-11e9-a45f-005056bbc848"
      }
    }
  },
  "name": "hourly.2019-03-13_1305",
  "reclaimable_space": 167832,
  "_links": {
    "self": {
      "href": "/api/storage/volumes/0353dc05-405f-11e9-acb6-005056bbc848/snapshots/402b6c73-73a0-4e89-a58a-75ee0ab3e8c0"
    }
  }
}
```

Updating a Snapshot copy

The PATCH operation is used to update the specific attributes of a Snapshot copy.

```
# The API:
/api/storage/volumes/{volume.uuid}/snapshots/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/volumes/0353dc05-405f-11e9-
acb6-005056bbc848/snapshots/16f7008c-18fd-4a7d-8485-a0e290d9db7f" -d
 '{"name": "snapshot_copy_new" }' -H "accept: application/hal+json"

# The response:
HTTP/1.1 202 Accepted
Date: Wed, 13 Mar 2019 22:50:44 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 189
Content-Type: application/json
{
  "job": {
    "uuid": "6f7c3a82-45e2-11e9-8fc7-005056bbc848",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/6f7c3a82-45e2-11e9-8fc7-005056bbc848"
      }
    }
  }
}

# The Job:
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 22:54:16 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 242
Content-Type: application/json
{
  "uuid": "6f7c3a82-45e2-11e9-8fc7-005056bbc848",
  "description": "PATCH /api/storage/volumes/0353dc05-405f-11e9-acb6-
005056bbc848/snapshots/16f7008c-18fd-4a7d-8485-a0e290d9db7f",
  "state": "success",
  "message": "success",
  "code": 0
}
```

Deleting a Snapshot copy

The DELETE operation is used to delete a Snapshot copy.

```
# The API:
/api/storage/volumes/{volume.uuid}/snapshots/{uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/storage/volumes/0353dc05-405f-11e9-
acb6-005056bbc848/snapshots/16f7008c-18fd-4a7d-8485-a0e290d9db7f" -H
"accept: application/hal+json"

# The response:
HTTP/1.1 202 Accepted
Date: Wed, 13 Mar 2019 22:57:51 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 189
Content-Type: application/json
{
  "job": {
    "uuid": "6da1dfdd-45e3-11e9-8fc7-005056bbc848",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/6da1dfdd-45e3-11e9-8fc7-005056bbc848"
      }
    }
  }
}

# The Job:
HTTP/1.1 200 OK
Date: Wed, 13 Mar 2019 23:02:46 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 243
Content-Type: application/json
{
  "uuid": "6da1dfdd-45e3-11e9-8fc7-005056bbc848",
  "description": "DELETE /api/storage/volumes/0353dc05-405f-11e9-acb6-
005056bbc848/snapshots/16f7008c-18fd-4a7d-8485-a0e290d9db7f",
  "state": "success",
  "message": "success",
  "code": 0
}
```

Retrieve volume Snapshot copies

GET /storage/volumes/{volume.uuid}/snapshots

Introduced In: 9.6

Retrieves a collection of volume Snapshot copies.

Expensive properties

There is an added cost to retrieving the amount of reclaimable space for Snapshot copies, as the calculation is done on demand based on the list of Snapshot copies provided.

- `reclaimable_space`

Related ONTAP commands

- `snapshot show`
- `snapshot compute-reclaimable`

Learn more

- [DOC /storage/volumes/{volume.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
volume.uuid	string	path	True	Volume
uuid	string	query	False	Filter by uuid
volume.name	string	query	False	Filter by volume.name
owners	string	query	False	Filter by owners <ul style="list-style-type: none">• Introduced in: 9.7
snaplock_expiry_time	string	query	False	Filter by snaplock_expiry_time
create_time	string	query	False	Filter by create_time

Name	Type	In	Required	Description
snapmirror_label	string	query	False	Filter by snapmirror_label • Introduced in: 9.8
comment	string	query	False	Filter by comment
expiry_time	string	query	False	Filter by expiry_time
state	string	query	False	Filter by state
reclaimable_space	integer	query	False	Filter by reclaimable_space • Introduced in: 9.10
size	integer	query	False	Filter by size • Introduced in: 9.9
name	string	query	False	Filter by name
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • 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
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
records	array[snapshot]	

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "comment": "string",
    "create_time": "2019-02-04T19:00:00Z",
    "expiry_time": "2019-02-04T19:00:00Z",
    "name": "this_snapshot",
    "owners": {
    },
    "size": 122880,
    "snaplock_expiry_time": "2019-02-04T19:00:00Z",
    "state": "valid",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
}

```

Error

Status: Default, Error

Name	Type	Description
error	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	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

snapshot

The Snapshot copy object represents a point in time Snapshot copy of a volume.

Name	Type	Description
_links	_links	
comment	string	A comment associated with the Snapshot copy. This is an optional attribute for POST or PATCH.
create_time	string	Creation time of the Snapshot copy. It is the volume access time when the Snapshot copy was created.
expiry_time	string	The expiry time for the Snapshot copy. This is an optional attribute for POST or PATCH. Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.
name	string	Snapshot copy. Valid in POST or PATCH.
owners	array[string]	
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
size	integer	Size of the active file system at the time the Snapshot copy is captured. The actual size of the Snapshot copy also includes those blocks trapped by other Snapshot copies. On a Snapshot copy deletion, the "size" amount of blocks is the maximum number of blocks available. On a Snapshot copy restore, the "afs-used size" value will match the Snapshot copy "size" value.
snaplock_expiry_time	string	SnapLock expiry time for the Snapshot copy, if the Snapshot copy is taken on a SnapLock volume. A Snapshot copy is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time.

Name	Type	Description
snapmirror_label	string	Label for SnapMirror operations
state	string	State of the Snapshot copy. There are cases where some Snapshot copies are not complete. In the "partial" state, the Snapshot copy is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial Snapshot copies cannot be used for a Snapshot copy restore operation. A Snapshot copy is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a Snapshot copy is valid.
svm	svm	
uuid	string	The UUID of the Snapshot copy in the volume that uniquely identifies the Snapshot copy in that volume.
volume	volume	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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.

Create a volume Snapshot copy

POST /storage/volumes/{volume.uuid}/snapshots

Introduced In: 9.6

Creates a volume Snapshot copy.

Required properties

- `name` - Name of the Snapshot copy to be created.

Recommended optional properties

- `comment` - Comment associated with the Snapshot copy.
- `expiry_time` - Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.
- `snapmirror_label` - Label for SnapMirror operations.

Related ONTAP commands

- `snapshot create`

Learn more

- [DOC /storage/volumes/{volume.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
volume.uuid	string	path	True	Volume UUID

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value:

Request Body

Name	Type	Description
_links	_links	
comment	string	A comment associated with the Snapshot copy. This is an optional attribute for POST or PATCH.

Name	Type	Description
create_time	string	Creation time of the Snapshot copy. It is the volume access time when the Snapshot copy was created.
expiry_time	string	The expiry time for the Snapshot copy. This is an optional attribute for POST or PATCH. Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.
name	string	Snapshot copy. Valid in POST or PATCH.
owners	array[string]	
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
size	integer	Size of the active file system at the time the Snapshot copy is captured. The actual size of the Snapshot copy also includes those blocks trapped by other Snapshot copies. On a Snapshot copy deletion, the "size" amount of blocks is the maximum number of blocks available. On a Snapshot copy restore, the "afs-used size" value will match the Snapshot copy "size" value.
snaplock_expiry_time	string	SnapLock expiry time for the Snapshot copy, if the Snapshot copy is taken on a SnapLock volume. A Snapshot copy is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time.
snapmirror_label	string	Label for SnapMirror operations

Name	Type	Description
state	string	State of the Snapshot copy. There are cases where some Snapshot copies are not complete. In the "partial" state, the Snapshot copy is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial Snapshot copies cannot be used for a Snapshot copy restore operation. A Snapshot copy is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a Snapshot copy is valid.
svm	svm	
uuid	string	The UUID of the Snapshot copy in the volume that uniquely identifies the Snapshot copy in that volume.
volume	volume	

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "create_time": "2019-02-04T19:00:00Z",
  "expiry_time": "2019-02-04T19:00:00Z",
  "name": "this_snapshot",
  "owners": {
  },
  "size": 122880,
  "snaplock_expiry_time": "2019-02-04T19:00:00Z",
  "state": "valid",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volumel",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	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	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

snapshot

The Snapshot copy object represents a point in time Snapshot copy of a volume.

Name	Type	Description
_links	_links	

Name	Type	Description
comment	string	A comment associated with the Snapshot copy. This is an optional attribute for POST or PATCH.
create_time	string	Creation time of the Snapshot copy. It is the volume access time when the Snapshot copy was created.
expiry_time	string	The expiry time for the Snapshot copy. This is an optional attribute for POST or PATCH. Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.
name	string	Snapshot copy. Valid in POST or PATCH.
owners	array[string]	
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
size	integer	Size of the active file system at the time the Snapshot copy is captured. The actual size of the Snapshot copy also includes those blocks trapped by other Snapshot copies. On a Snapshot copy deletion, the "size" amount of blocks is the maximum number of blocks available. On a Snapshot copy restore, the "afs-used size" value will match the Snapshot copy "size" value.
snaplock_expiry_time	string	SnapLock expiry time for the Snapshot copy, if the Snapshot copy is taken on a SnapLock volume. A Snapshot copy is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time.
snapmirror_label	string	Label for SnapMirror operations

Name	Type	Description
state	string	State of the Snapshot copy. There are cases where some Snapshot copies are not complete. In the "partial" state, the Snapshot copy is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial Snapshot copies cannot be used for a Snapshot copy restore operation. A Snapshot copy is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a Snapshot copy is valid.
svm	svm	
uuid	string	The UUID of the Snapshot copy in the volume that uniquely identifies the Snapshot copy in that volume.
volume	volume	

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments

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

Delete a volume Snapshot copy

DELETE /storage/volumes/{volume.uuid}/snapshots/{uuid}

Introduced In: 9.6

Deletes a Volume Snapshot copy.

Related ONTAP commands

- `snapshot delete`

Learn more

- [DOC /storage/volumes/{volume.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
volume.uuid	string	path	True	Volume UUID
uuid	string	path	True	Snapshot copy UUID

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0

Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	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	

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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 volume Snapshot copy details

GET /storage/volumes/{volume.uuid}/snapshots/{uuid}

Introduced In: 9.6

Retrieves details of a specific volume Snapshot copy.

Related ONTAP commands

- `snapshot show`

Learn more

- [DOC /storage/volumes/{volume.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
volume.uuid	string	path	True	Volume UUID
uuid	string	path	True	Snapshot copy UUID
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
comment	string	A comment associated with the Snapshot copy. This is an optional attribute for POST or PATCH.
create_time	string	Creation time of the Snapshot copy. It is the volume access time when the Snapshot copy was created.
expiry_time	string	The expiry time for the Snapshot copy. This is an optional attribute for POST or PATCH. Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.

Name	Type	Description
name	string	Snapshot copy. Valid in POST or PATCH.
owners	array[string]	
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
size	integer	Size of the active file system at the time the Snapshot copy is captured. The actual size of the Snapshot copy also includes those blocks trapped by other Snapshot copies. On a Snapshot copy deletion, the "size" amount of blocks is the maximum number of blocks available. On a Snapshot copy restore, the "afs-used size" value will match the Snapshot copy "size" value.
snaplock_expiry_time	string	SnapLock expiry time for the Snapshot copy, if the Snapshot copy is taken on a SnapLock volume. A Snapshot copy is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time.
snapmirror_label	string	Label for SnapMirror operations
state	string	State of the Snapshot copy. There are cases where some Snapshot copies are not complete. In the "partial" state, the Snapshot copy is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial Snapshot copies cannot be used for a Snapshot copy restore operation. A Snapshot copy is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a Snapshot copy is valid.
svm	svm	

Name	Type	Description
uuid	string	The UUID of the Snapshot copy in the volume that uniquely identifies the Snapshot copy in that volume.
volume	volume	

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "create_time": "2019-02-04T19:00:00Z",
  "expiry_time": "2019-02-04T19:00:00Z",
  "name": "this_snapshot",
  "owners": {
  },
  "size": 122880,
  "snaplock_expiry_time": "2019-02-04T19:00:00Z",
  "state": "valid",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	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	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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.

Update a volume Snapshot copy

PATCH `/storage/volumes/{volume.uuid}/snapshots/{uuid}`

Introduced In: 9.6

Updates a Volume Snapshot copy.

Related ONTAP commands

- `snapshot modify`
- `snapshot rename`

Learn more

- [DOC /storage/volumes/{volume.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
volume.uuid	string	path	True	Volume UUID
uuid	string	path	True	Snapshot copy UUID

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0

Request Body

Name	Type	Description
_links	_links	
comment	string	A comment associated with the Snapshot copy. This is an optional attribute for POST or PATCH.
create_time	string	Creation time of the Snapshot copy. It is the volume access time when the Snapshot copy was created.

Name	Type	Description
expiry_time	string	The expiry time for the Snapshot copy. This is an optional attribute for POST or PATCH. Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.
name	string	Snapshot copy. Valid in POST or PATCH.
owners	array[string]	
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
size	integer	Size of the active file system at the time the Snapshot copy is captured. The actual size of the Snapshot copy also includes those blocks trapped by other Snapshot copies. On a Snapshot copy deletion, the "size" amount of blocks is the maximum number of blocks available. On a Snapshot copy restore, the "afs-used size" value will match the Snapshot copy "size" value.
snaplock_expiry_time	string	SnapLock expiry time for the Snapshot copy, if the Snapshot copy is taken on a SnapLock volume. A Snapshot copy is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time.
snapmirror_label	string	Label for SnapMirror operations

Name	Type	Description
state	string	State of the Snapshot copy. There are cases where some Snapshot copies are not complete. In the "partial" state, the Snapshot copy is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial Snapshot copies cannot be used for a Snapshot copy restore operation. A Snapshot copy is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a Snapshot copy is valid.
svm	svm	
uuid	string	The UUID of the Snapshot copy in the volume that uniquely identifies the Snapshot copy in that volume.
volume	volume	

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "create_time": "2019-02-04T19:00:00Z",
  "expiry_time": "2019-02-04T19:00:00Z",
  "name": "this_snapshot",
  "owners": {
  },
  "size": 122880,
  "snaplock_expiry_time": "2019-02-04T19:00:00Z",
  "state": "valid",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volumel",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	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	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

snapshot

The Snapshot copy object represents a point in time Snapshot copy of a volume.

Name	Type	Description
_links	_links	

Name	Type	Description
comment	string	A comment associated with the Snapshot copy. This is an optional attribute for POST or PATCH.
create_time	string	Creation time of the Snapshot copy. It is the volume access time when the Snapshot copy was created.
expiry_time	string	The expiry time for the Snapshot copy. This is an optional attribute for POST or PATCH. Snapshot copies with an expiry time set are not allowed to be deleted until the retention time is reached.
name	string	Snapshot copy. Valid in POST or PATCH.
owners	array[string]	
reclaimable_space	integer	Space reclaimed when the Snapshot copy is deleted, in bytes.
size	integer	Size of the active file system at the time the Snapshot copy is captured. The actual size of the Snapshot copy also includes those blocks trapped by other Snapshot copies. On a Snapshot copy deletion, the "size" amount of blocks is the maximum number of blocks available. On a Snapshot copy restore, the "afs-used size" value will match the Snapshot copy "size" value.
snaplock_expiry_time	string	SnapLock expiry time for the Snapshot copy, if the Snapshot copy is taken on a SnapLock volume. A Snapshot copy is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time.
snapmirror_label	string	Label for SnapMirror operations

Name	Type	Description
state	string	State of the Snapshot copy. There are cases where some Snapshot copies are not complete. In the "partial" state, the Snapshot copy is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial Snapshot copies cannot be used for a Snapshot copy restore operation. A Snapshot copy is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a Snapshot copy is valid.
svm	svm	
uuid	string	The UUID of the Snapshot copy in the volume that uniquely identifies the Snapshot copy in that volume.
volume	volume	

job_link

Name	Type	Description
_links	_links	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments

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

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