# NetApp

# Manage volume snapshots

REST API reference

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### Overview

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

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

ONTAP snapshot APIs allow you to create, modify, delete and retrieve snapshots.

ONTAP Bulk snapshot APIs allow you to create, modify, delete and retrieve snapshots on multiple volumes in one request.

### Snapshot APIs

The following APIs are used to perform operations related to snapshots.

&ndash; POST /api/storage/volumes/{volume.uuid}/snapshots

&ndash; GET /api/storage/volumes/{volume.uuid}/snapshots

&ndash; GET /api/storage/volumes/{volume.uuid}/snapshots/{uuid}

&ndash; PATCH /api/storage/volumes/{volume.uuid}/snapshots/{uuid}

&ndash; DELETE /api/storage/volumes/{volume.uuid}/snapshots/{uuid} The following APIs are used to perform bulk operations related to snapshots.

&ndash; POST /api/storage/volumes/*/snapshots

&ndash; GET /api/storage/volumes/*/snapshots

&ndash; PATCH /api/storage/volumes/*/snapshots/{uuid}

&ndash; DELETE /api/storage/volumes/*/snapshots/{uuid}

### Examples

#### Creating a snapshot

The POST operation is used to create a snapshot 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 attributes**

The GET operation is used to retrieve snapshot 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"
      }
    }
  }
}
```

**Creating bulk snapshots**

The POST operation is used to create a snapshot with the same name on multiple volumes in one request. This operation accepts a volume UUID or volume name and SVM, and a snapshot name. This operation only supports SnapMirror label attributes to be added to snapshots during creation.

```
# The API:
/api/storage/volumes/*/snapshots

# The call:
curl -k -u admin -X POST "https://<mgmt-
ip>/api/storage/volumes/*/snapshots" -H 'accept: application/hal+json' -d
'{"records": [{"volume.uuid":"e8815adb-5209-11ec-b4ad-005056bbc3e8",
"name":"snapshot_copy"},{ "volume.uuid":"efda9101-5209-11ec-b4ad-
005056bbc3e8", "name":"snapshot_copy"}]}'

# The response:
HTTP/1.1 202 Accepted
Date: Tue, 14 Dec 2021 20:18:13 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
```

```
Cache-Control: no-cache,no-store,must-revalidate
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-
inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-
ancestors: 'self'
Location: /api/storage/volumes/*/snapshots/
Content-Length: 209
Content-Type: application/json
{
"num_records": 2,
"job": {
   "uuid": "f7130fc0-5d1a-11ec-b78c-005056bbb467",
   "_links": {
     "self": {
       "href": "/api/cluster/jobs/f7130fc0-5d1a-11ec-b78c-005056bbb467"
     }
   }
}
}

# The Job:
HTTP/1.1 200 OK
Date: Tue, 14 Dec 2021 20:20:54 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-
inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-
ancestors: 'self'
Content-Length: 258
Content-Type: application/json
Vary: Accept-Encoding
{
"uuid": "f7130fc0-5d1a-11ec-b78c-005056bbb467",
"description": "POST /api/storage/volumes/*/snapshots/",
"state": "success",
"message": "success",
"code": 0,
"start_time": "2021-12-14T15:18:13-05:00",
"end_time": "2021-12-14T15:18:13-05:00"
}
```

**Retrieving snapshot advanced attributes**

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

```
# 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&n
ame=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 snapshot advanced attributes**

A collection GET request is used to calculate the delta between two snapshots. When the advanced privilege field 'delta' is requested, the API returns the delta between the queried snapshots.

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/storage/volumes/{volume.uuid}/snapshots?fields=delta&name=hourly.2
022-06-29_1105,hourly.2022-06-29_1205" -H "accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Connection: Keep-Alive
Content-Encoding: gzip
Content-Length: 378
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-
inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-
ancestors: 'self'
Content-Type: application/hal+json
Date: Wed, 29 Jun 2022 18:37:11 GMT
Keep-Alive: timeout=5, max=99
Server: libzapid-httpd
Vary: Accept-Encoding
X-Content-Type-Options: nosniff
{
"records": [
  {
    "uuid": "52a2247a-7735-4a92-bc3c-e51df1fe502f",
    "name": "hourly.2022-06-29_1105",
```

```
      "delta": {
        "size_consumed": 675840,
        "time_elapsed": "PT3H27M45S"
      }
    },
    {
      "uuid": "b399eb34-44fe-4689-9fb5-c8f72162dd77",
      "name": "hourly.2022-06-29_1205",
      "delta": {
        "size_consumed": 507904,
        "time_elapsed": "PT2H27M45S"
      }
    }
  ],
  "num_records": 2,
  "delta": {
    "size_consumed": 167936,
    "time_elapsed": "PT1H"
  }
}
```

**Retrieving the attributes of a specific snapshot**

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

```
# 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**

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

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

# 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"
  }
}
}
}
```

**Retrieving snapshot advanced attributes**

A collection GET request is used to calculate the delta between two snapshots. When the advanced privilege field 'delta' is requested, the API returns the delta between the queried snapshots.

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/storage/volumes/{volume.uuid}/snapshots?fields=delta&name=hourly.2
022-06-29_1105,hourly.2022-06-29_1205" -H "accept: application/hal+json"
```

```
# The response:
HTTP/1.1 200 OK
Connection: Keep-Alive
Content-Encoding: gzip
Content-Length: 378
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-
inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-
ancestors: 'self'
Content-Type: application/hal+json
Date: Wed, 29 Jun 2022 18:37:11 GMT
Keep-Alive: timeout=5, max=99
Server: libzapid-httpd
Vary: Accept-Encoding
X-Content-Type-Options: nosniff
{
"records": [
  {
    "uuid": "52a2247a-7735-4a92-bc3c-e51df1fe502f",
    "name": "hourly.2022-06-29_1105",
    "delta": {
      "size_consumed": 675840,
      "time_elapsed": "PT3H27M45S"
    }
  },
  {
    "uuid": "b399eb34-44fe-4689-9fb5-c8f72162dd77",
    "name": "hourly.2022-06-29_1205",
    "delta": {
      "size_consumed": 507904,
      "time_elapsed": "PT2H27M45S"
    }
  }
],
"num_records": 2,
"delta": {
  "size_consumed": 167936,
  "time_elapsed": "PT1H"
}
}
```

**Retrieving bulk snapshots**

The bulk GET operation is used to retrieve snapshot attributes across all volumes.

```
# The API:
/api/storage/volumes/*/snapshots
```

```
# The call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/*/snapshots" -H
"accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
{
"records": [
  {
    "volume": {
      "uuid": "966c285f-47f7-11ec-8407-005056bbc08f",
      "name": "v1"
    },
    "uuid": "3edba912-5507-4535-adce-e12fe5c0e31c",
    "name": "daily.2021-11-18_0010"
  },
  {
    "volume": {
      "uuid": "966c285f-47f7-11ec-8407-005056bbc08f",
      "name": "v1"
    },
    "uuid": "3ad61153-d5ef-495d-8e0e-5c3b8bbaf5e6",
    "name": "hourly.2021-11-18_0705"
  },
  {
    "volume": {
      "uuid": "99c974e3-47f7-11ec-8407-005056bbc08f",
      "name": "v2"
    },
    "uuid": "3dd0fa97-65d9-41ea-a99d-5ceb9d2f55c5",
    "name": "daily.2021-11-18_0010"
  },
  {
   "volume": {
      "uuid": "99c974e3-47f7-11ec-8407-005056bbc08f",
      "name": "v2"
    },
   "uuid": "6ca20a52-c342-4753-8865-3693fa9b7e23",
   "name": "hourly.2021-11-18_0705"
  },
],
"num_records": 4
}
```

**Updating a snapshot**

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

```
# 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
}
```

## Updating bulk snapshots

The bulk PATCH operation is used to update the specific attributes of snapshots across volumes in a single request.

```
# The API:
/api/storage/volumes/*/snapshots

# The call:
curl -X PATCH  "https://<mgmt-ip>/api/storage/volumes/*/snapshots" -d
'{"records": [{"volume.uuid":"e8815adb-5209-11ec-b4ad-005056bbc3e8",
"svm.uuid":"d0e6def5-5209-11ec-b4ad-005056bbc3e8", "uuid":"f9b7714d-1166-
410a-b143-874f27969db6", "comment":"yay"},{"volume.uuid":"efda9101-5209-
11ec-b4ad-005056bbc3e8", "svm.uuid":"d0e6def5-5209-11ec-b4ad-
005056bbc3e8", "uuid":"514c82a7-bff7-48e2-a13c-5337b09ed41e",
"comment":"yay"}]}' -H "accept: application/hal+json"

# The response:
HTTP/1.1 202 Accepted
{
"job": {
  "uuid": "1e9a561f-520f-11ec-b4ad-005056bbc3e8",
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/1e9a561f-520f-11ec-b4ad-005056bbc3e8"
    },
    "results": {
      "href": "/api/storage/volumes/*/snapshots?job_results_uuid=1e9a561f-
520f-11ec-b4ad-005056bbc3e8"
    }
  }
}
}

# The Job:
curl -u admin:<password> -k -X GET --header 'Content-Type:
application/json' --header 'Accept: application/json' 'https://<mgmt-
ip>/api/storage/volumes/*/snapshots?job_results_uuid=1e9a561f-520f-11ec-
b4ad-005056bbc3e8'
HTTP/1.1 200 OK
{
"records": [
  {
    "volume": {
      "uuid": "e8815adb-5209-11ec-b4ad-005056bbc3e8",
      "name": "v1"
    },
```

```
      "uuid": "f9b7714d-1166-410a-b143-874f27969db6",
      "svm": {
        "uuid": "d0e6def5-5209-11ec-b4ad-005056bbc3e8"
      },
      "name": "s1",
      "comment": "yay"
    },
    {
      "volume": {
        "uuid": "efda9101-5209-11ec-b4ad-005056bbc3e8",
        "name": "v2"
      },
      "uuid": "514c82a7-bff7-48e2-a13c-5337b09ed41e",
      "svm": {
        "uuid": "d0e6def5-5209-11ec-b4ad-005056bbc3e8"
      },
      "name": "s1",
      "comment": "yay"
    }
  ],
  "num_records": 2
}
```

**Deleting a snapshot**

The DELETE operation is used to delete a snapshot.

```
# 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
}
```

## Deleting bulk snapshots

The bulk DELETE operation is used to delete a snapshots across volumes in a single request.

```
# The API:
/api/storage/volumes/*/snapshots

# The call:
curl -X DELETE  "https://<mgmt-ip>/api/storage/volumes/*/snapshots" -d
'{"records": [{"volume.uuid":"e8815adb-5209-11ec-b4ad-005056bbc3e8",
"uuid":"f9b7714d-1166-410a-b143-874f27969db6"}, {"volume.uuid":"efda9101-
5209-11ec-b4ad-005056bbc3e8", "uuid":"1d55c97a-25f3-4366-bfa8-
9ea75c255469"}]}' -H "accept: application/hal+json"

# The response:
HTTP/1.1 202 Accepted
{
"job": {
   "uuid": "fe114ed7-520f-11ec-b4ad-005056bbc3e8",
   "_links": {
     "self": {
       "href": "/api/cluster/jobs/fe114ed7-520f-11ec-b4ad-005056bbc3e8"
     },
     "results": {
       "href": "/api/storage/volumes/*/snapshots?job_results_uuid=fe114ed7-
520f-11ec-b4ad-005056bbc3e8"
     }
   }
}
}

# The Job:
HTTP/1.1 200 OK
curl -u admin:<password> -k -X GET --header 'Content-Type:
application/json' --header 'Accept: application/json' 'https://<mgmt-
ip>/api/storage/volumes/*/snapshots?job_results_uuid=fe114ed7-520f-11ec-
b4ad-005056bbc3e8'
{
"records": [
],
"num_records": 0
}
```

# Retrieve volume snapshots

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

**Introduced In:** 9.6

Retrieves a collection of volume snapshots.

## Expensive properties

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

* `reclaimable_space`

* `delta`

## Related ONTAP commands

* `snapshot show`

* `snapshot compute-reclaimable`

* `snapshot show-delta`

## Learn more

* DOC /storage/volumes/{volume.uuid}/snapshots

## Parameters

| Name | Type | In | Required | Description |
|------|------|-----|----------|-------------|
| volume.uuid | string | path | True | Volume |
| version_uuid | string | query | False | Filter by version_uuid<br><br>• Introduced in: 9.11 |
| comment | string | query | False | Filter by comment |
| owners | string | query | False | Filter by owners<br><br>• Introduced in: 9.7 |
| volume.name | string | query | False | Filter by volume.name |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| uuid | string | query | False | Filter by uuid |
| size | integer | query | False | Filter by size<br><br>• Introduced in: 9.9 |
| name | string | query | False | Filter by name |
| state | string | query | False | Filter by state |
| dedup_savings | integer | query | False | Filter by dedup_savings<br><br>• Introduced in: 9.17 |
| snapmirror_label | string | query | False | Filter by snapmirror_label<br><br>• Introduced in: 9.8 |
| delta.size_consumed | integer | query | False | Filter by delta.size_consumed<br><br>• Introduced in: 9.12 |
| delta.time_elapsed | string | query | False | Filter by delta.time_elapsed<br><br>• Introduced in: 9.12 |
| reclaimable_space | integer | query | False | Filter by reclaimable_space<br><br>• Introduced in: 9.10 |
| create_time | string | query | False | Filter by create_time |
| expiry_time | string | query | False | Filter by expiry_time |

| Name | Type | In | Required | Description |
|------|------|-----|----------|-------------|
| compress_savings | integer | query | False | Filter by compress_savings <br><br> • Introduced in: 9.17 |
| vbn0_savings | integer | query | False | Filter by vbn0_savings <br><br> • Introduced in: 9.17 |
| svm.name | string | query | False | Filter by svm.name |
| svm.uuid | string | query | False | Filter by svm.uuid |
| provenance_volume. uuid | string | query | False | Filter by provenance_volume .uuid <br><br> • Introduced in: 9.11 |
| logical_size | integer | query | False | Filter by logical_size <br><br> • Introduced in: 9.12 |
| snaplock_expiry_tim e | string | query | False | Filter by snaplock_expiry_tim e |
| snaplock.expiry_time | string | query | False | Filter by snaplock.expiry_tim e <br><br> • Introduced in: 9.15 |
| snaplock.time_until_ expiry | string | query | False | Filter by snaplock.time_until_ expiry <br><br> • Introduced in: 9.15 |

| Name | Type | In | Required | Description |
|------|------|-----|----------|-------------|
| snaplock.expired | boolean | query | False | Filter by snaplock.expired<br><br>• Introduced in: 9.15 |
| 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.<br><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><br>• Default value: 15<br><br>• Max value: 120<br><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 | |
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |
| num_records | integer | Number of records |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |
| records | array[snapshot] | |

**Example response**

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "delta": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "size_consumed": 0,
    "time_elapsed": "string"
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "comment": "string",
      "compress_savings": 1131223,
      "create_time": "2019-02-04 19:00:00 +0000",
      "dedup_savings": 1131223,
      "delta": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "size_consumed": 0,
        "time_elapsed": "string"
      },
      "expiry_time": "2019-02-04 19:00:00 +0000",
      "logical_size": 1228800,
      "name": "this_snapshot",
      "owners": [
        "string"
```

```
        ],
        "provenance_volume": {
          "uuid": "4cd8a442-86d1-11e0-ae1c-125648563413"
        },
        "size": "122880",
        "snaplock": {
          "expired": 1,
          "expiry_time": "2019-02-04 19:00:00 +0000",
          "time_until_expiry": "PT3H27M45S"
        },
        "snaplock_expiry_time": "2019-02-04 19:00:00 +0000",
        "snapmirror_label": "string",
        "state": "string",
        "svm": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "svm1",
          "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
        "vbn0_savings": 1131223,
        "version_uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
        "volume": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "volume1",
          "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
        }
      }
    ]
  }
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
|---|---|
| 918235 | The specified volume is invalid. |
| 9437613 | The operation is not supported on FlexCache Volumes. |

| 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 | |

snapshot_delta

Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned.

| Name | Type | Description |
|------|------|-------------|
| _links | _links | |
| size_consumed | integer | Indicates the space that has changed between two specified WAFL file systems, in bytes. |
| time_elapsed | string | Time elapsed between two specified WAFL file systems. |

provenance_volume

| Name | Type | Description |
|------|------|-------------|
| uuid | string | UUID for the volume that is used to identify the source volume in a mirroring relationship. When the mirroring relationship is broken, a volume's Instance UUID and Provenance UUID are made identical. An unmirrored volume's Provenance UUID is the same as its Instance UUID. This field is valid for flexible volumes only. |

snaplock

| Name | Type | Description |
|------|------|-------------|
| expired | boolean | Indicates whether a SnapLock snapshot has expired. |
| expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. It can also be used to extend the expiry time of a locked snapshot on a SnapLock for SnapVault destination consistency-group. |
| time_until_expiry | string | Indicates the remaining SnapLock expiry time of a locked snapshot, in seconds. This field is set only when the remaining time interval is less than 136 years. |

svm

SVM, applies only to SVM-scoped objects.

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

| Name | Type | Description |
|------|------|-------------|
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

volume

| Name | Type | Description |
|------|------|-------------|
| _links | _links | |
| name | string | The name of the volume. This field cannot be specified in a PATCH method. |
| 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. <br><br> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 <br><br> • Introduced in: 9.6 <br><br> • x-nullable: true |

snapshot

The snapshot object represents a point in time snapshot of a volume.

| Name | Type | Description |
|------|------|-------------|
| _links | _links | |
| comment | string | A comment associated with the snapshot. This is an optional attribute for POST or PATCH. |
| compress_savings | integer | Savings due to compression at the time the snapshot was taken in bytes. |
| create_time | string | Creation time of the snapshot. It is the volume access time when the snapshot was created. |

| Name | Type | Description |
|---|---|---|
| dedup_savings | integer | Savings due to dedup at the time the snapshot was taken in bytes. |
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |
| expiry_time | string | The expiry time for the snapshot. This is an optional attribute for POST or PATCH. Snapshots with an expiry time set are not allowed to be deleted until the retention time is reached. |
| logical_size | integer | Size of the logical used file system at the time the snapshot is captured. |
| name | string | Snapshot. Valid in POST or PATCH. |
| owners | array[string] | |
| provenance_volume | provenance_volume | |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |
| size | integer | Size of the active file system at the time the snapshot is captured. The actual size of the snapshot also includes those blocks trapped by other snapshots. On a snapshot deletion, the "size" amount of blocks is the maximum number of blocks available. On a snapshot restore, the "afs-used size" value will match the snapshot "size" value. |
| snaplock | snaplock | |

| Name | Type | Description |
|------|------|-------------|
| snaplock_expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. This field will no longer be supported in a future release. Use snaplock.expiry_time instead. |
| snapmirror_label | string | Label for SnapMirror operations |
| state | string | State of the FlexGroup volume snapshot. In the "pre_conversion" state, the snapshot was created before converting the FlexVol to a FlexGroup volume. A recently created snapshot can be in the "unknown" state while the system is calculating the state. In the "partial" state, the snapshot is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial snapshots cannot be used for a snapshot restore operation. A snapshot is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a snapshot is valid. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| uuid | string | The UUID of the snapshot in the volume that uniquely identifies the snapshot in that volume. |
| vbn0_savings | integer | Savings due vbn0 at the time the snapshot was taken in bytes. |

| Name | Type | Description |
|------|------|-------------|
| version_uuid | string | The 128 bit identifier that uniquely identifies a snapshot and its logical data layout. |
| volume | volume | |

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. |

# Create a volume snapshot

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

**Introduced In:** 9.6

Creates a volume snapshot.

## Required properties

- `name` - Name of the snapshot to be created.

## Recommended optional properties

- `comment` - Comment associated with the snapshot.

- `expiry_time` - snapshots with an expiry time set are not allowed to be deleted until the retention time is reached.

- `snapmirror_label` - Label for SnapMirror operations.

- `snaplock_expiry_time` - Expiry time for snapshot locking enabled volumes.

## 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 |
| return_timeout | integer | query | False | 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.<br><br>• Default value: 0<br><br>• Max value: 120<br><br>• Min value: 0 |

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

## Request Body

| Name | Type | Description |
|------|------|-------------|
| comment | string | A comment associated with the snapshot. This is an optional attribute for POST or PATCH. |
| compress_savings | integer | Savings due to compression at the time the snapshot was taken in bytes. |
| create_time | string | Creation time of the snapshot. It is the volume access time when the snapshot was created. |
| dedup_savings | integer | Savings due to dedup at the time the snapshot was taken in bytes. |
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |
| expiry_time | string | The expiry time for the snapshot. This is an optional attribute for POST or PATCH. Snapshots with an expiry time set are not allowed to be deleted until the retention time is reached. |
| logical_size | integer | Size of the logical used file system at the time the snapshot is captured. |

| Name | Type | Description |
|------|------|-------------|
| name | string | Snapshot. Valid in POST or PATCH. |
| owners | array[string] | |
| provenance_volume | provenance_volume | |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |
| size | integer | Size of the active file system at the time the snapshot is captured. The actual size of the snapshot also includes those blocks trapped by other snapshots. On a snapshot deletion, the "size" amount of blocks is the maximum number of blocks available. On a snapshot restore, the "afs-used size" value will match the snapshot "size" value. |
| snaplock | snaplock | |
| snaplock_expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. This field will no longer be supported in a future release. Use snaplock.expiry_time instead. |
| snapmirror_label | string | Label for SnapMirror operations |

| Name | Type | Description |
|------|------|-------------|
| state | string | State of the FlexGroup volume snapshot. In the "pre_conversion" state, the snapshot was created before converting the FlexVol to a FlexGroup volume. A recently created snapshot can be in the "unknown" state while the system is calculating the state. In the "partial" state, the snapshot is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial snapshots cannot be used for a snapshot restore operation. A snapshot is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a snapshot is valid. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| uuid | string | The UUID of the snapshot in the volume that uniquely identifies the snapshot in that volume. |
| vbn0_savings | integer | Savings due vbn0 at the time the snapshot was taken in bytes. |
| version_uuid | string | The 128 bit identifier that uniquely identifies a snapshot and its logical data layout. |
| volume | volume | |

**Example request**

```json
{
  "comment": "string",
  "compress_savings": 1131223,
  "create_time": "2019-02-04 19:00:00 +0000",
  "dedup_savings": 1131223,
  "delta": {
    "size_consumed": 0,
    "time_elapsed": "string"
  },
  "expiry_time": "2019-02-04 19:00:00 +0000",
  "logical_size": 1228800,
  "name": "this_snapshot",
  "owners": [
    "string"
  ],
  "provenance_volume": {
    "uuid": "4cd8a442-86d1-11e0-ae1c-125648563413"
  },
  "size": "122880",
  "snaplock": {
    "expired": 1,
    "expiry_time": "2019-02-04 19:00:00 +0000",
    "time_until_expiry": "PT3H27M45S"
  },
  "snaplock_expiry_time": "2019-02-04 19:00:00 +0000",
  "snapmirror_label": "string",
  "state": "string",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "vbn0_savings": 1131223,
  "version_uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "volume": {
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

## Response

```
Status: 202, Accepted
```

| Name | Type | Description |
|------|------|-------------|
| job | job_link | |

**Example response**

```
{
  "job": {
    "uuid": "string"
  }
}
```

**Headers**

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

## Response

```
Status: 201, Created
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
|------------|-------------|
| 524479 | The specified volume is not online or does not have enough space to create a snapshot. |
| 1520351 | Snapshot operation is not allowed. |
| 525062 | Cannot exceed maximum number of snapshots. |
| 2621462 | The specified SVM name does not exist. |
| 525059 | A snapshot with the specified name already exists. |

| Error Code | Description |
| --- | --- |
| 1638461 | Snapshots can only be created on read/write (RW) volumes. |
| 1638477 | User-created snapshot names cannot begin with the specified prefix. |
| 1638518 | The specified snapshot name is invalid. |
| 1638532 | Failed to create the snapshot on the specified volume because a revert operation is in progress. |
| 1638537 | Cannot determine the status of the snapshot create operation for the specified volume. |
| 1638574 | The "expiry-time" parameter is not supported for FlexGroup volumes. |
| 1638616 | Bulk snapshot create is not supported with multiple snapshot names. |
| 1638617 | Bulk snapshot create is not supported with volume names in a mixed-version cluster. |
| 1638618 | The property cannot be specified for snapshot create. |
| 1638630 | Snapshot create operation is not supported on destination of SnapMirror active sync relationship with policy-type "automated-failover-duplex". |
| 1638644 | POST, DELETE, and PATCH requests on the snapshot session endpoint are not supported on this platform. |
| 92405873 | Unable to create the snapshot for object store volumes. |

# Definitions

**See Definitions**

href

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

_links

snapshot_delta

Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned.

| Name | Type | Description |
|------|------|-------------|
| size_consumed | integer | Indicates the space that has changed between two specified WAFL file systems, in bytes. |
| time_elapsed | string | Time elapsed between two specified WAFL file systems. |

provenance_volume

| Name | Type | Description |
|------|------|-------------|
| uuid | string | UUID for the volume that is used to identify the source volume in a mirroring relationship. When the mirroring relationship is broken, a volume's Instance UUID and Provenance UUID are made identical. An unmirrored volume's Provenance UUID is the same as its Instance UUID. This field is valid for flexible volumes only. |

snaplock

| Name | Type | Description |
|------|------|-------------|
| expired | boolean | Indicates whether a SnapLock snapshot has expired. |

| Name | Type | Description |
|------|------|-------------|
| expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. It can also be used to extend the expiry time of a locked snapshot on a SnapLock for SnapVault destination consistency-group. |
| time_until_expiry | string | Indicates the remaining SnapLock expiry time of a locked snapshot, in seconds. This field is set only when the remaining time interval is less than 136 years. |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|------|------|-------------|
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

volume

| Name | Type | Description |
|------|------|-------------|
| name | string | The name of the volume. This field cannot be specified in a PATCH method. |

| Name | Type | Description |
|------|------|-------------|
| 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. <br><br> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 <br><br> • Introduced in: 9.6 <br><br> • x-nullable: true |

snapshot

The snapshot object represents a point in time snapshot of a volume.

| Name | Type | Description |
|------|------|-------------|
| comment | string | A comment associated with the snapshot. This is an optional attribute for POST or PATCH. |
| compress_savings | integer | Savings due to compression at the time the snapshot was taken in bytes. |
| create_time | string | Creation time of the snapshot. It is the volume access time when the snapshot was created. |
| dedup_savings | integer | Savings due to dedup at the time the snapshot was taken in bytes. |
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |

| Name | Type | Description |
|------|------|-------------|
| expiry_time | string | The expiry time for the snapshot. This is an optional attribute for POST or PATCH. Snapshots with an expiry time set are not allowed to be deleted until the retention time is reached. |
| logical_size | integer | Size of the logical used file system at the time the snapshot is captured. |
| name | string | Snapshot. Valid in POST or PATCH. |
| owners | array[string] | |
| provenance_volume | provenance_volume | |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |
| size | integer | Size of the active file system at the time the snapshot is captured. The actual size of the snapshot also includes those blocks trapped by other snapshots. On a snapshot deletion, the "size" amount of blocks is the maximum number of blocks available. On a snapshot restore, the "afs-used size" value will match the snapshot "size" value. |
| snaplock | snaplock | |
| snaplock_expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. This field will no longer be supported in a future release. Use snaplock.expiry_time instead. |

| Name | Type | Description |
|------|------|-------------|
| snapmirror_label | string | Label for SnapMirror operations |
| state | string | State of the FlexGroup volume snapshot. In the "pre_conversion" state, the snapshot was created before converting the FlexVol to a FlexGroup volume. A recently created snapshot can be in the "unknown" state while the system is calculating the state. In the "partial" state, the snapshot is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial snapshots cannot be used for a snapshot restore operation. A snapshot is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a snapshot is valid. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| uuid | string | The UUID of the snapshot in the volume that uniquely identifies the snapshot in that volume. |
| vbn0_savings | integer | Savings due vbn0 at the time the snapshot was taken in bytes. |
| version_uuid | string | The 128 bit identifier that uniquely identifies a snapshot and its logical data layout. |
| volume | volume | |

job_link

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

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 volume snapshot

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

**Introduced In:** 9.6

Deletes a Volume snapshot.

## 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 UUID |

| Name | Type | In | Required | Description |
|------|------|-----|----------|-------------|
| return_timeout | integer | query | False | 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.<br><br>• Default value: 0<br>• Max value: 120<br>• Min value: 0 |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|------|------|-------------|
| job | job_link | |

**Example response**

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

## Response

```
Status: 202, Accepted
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
|------------|-------------|
| 2 | An invalid value was entered for one of the fields. |
| 524481 | Snapshot was not deleted because the associated volume is locked or fenced. |
| 1638521 | Snapshots can only be deleted on read/write (RW) volumes. |
| 1638538 | Cannot determine the status of the snapshot delete operation for the specified volume. |
| 1638543 | Failed to delete snapshot because it has an owner. |
| 1638555 | The specified snapshot has not expired or is locked. |
| 1638600 | The snapshot does not exist. |
| 1638644 | POST, DELETE, and PATCH requests on the snapshot session endpoint are not supported on this platform. |

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

**Example error**

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

# 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 |

### 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 volume snapshot details

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

**Introduced In:** 9.6

Retrieves details of a specific volume snapshot.

## 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 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. This is an optional attribute for POST or PATCH. |
| compress_savings | integer | Savings due to compression at the time the snapshot was taken in bytes. |
| create_time | string | Creation time of the snapshot. It is the volume access time when the snapshot was created. |
| dedup_savings | integer | Savings due to dedup at the time the snapshot was taken in bytes. |

| Name | Type | Description |
|---|---|---|
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |
| expiry_time | string | The expiry time for the snapshot. This is an optional attribute for POST or PATCH. Snapshots with an expiry time set are not allowed to be deleted until the retention time is reached. |
| logical_size | integer | Size of the logical used file system at the time the snapshot is captured. |
| name | string | Snapshot. Valid in POST or PATCH. |
| owners | array[string] | |
| provenance_volume | provenance_volume | |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |
| size | integer | Size of the active file system at the time the snapshot is captured. The actual size of the snapshot also includes those blocks trapped by other snapshots. On a snapshot deletion, the "size" amount of blocks is the maximum number of blocks available. On a snapshot restore, the "afs-used size" value will match the snapshot "size" value. |
| snaplock | snaplock | |

| Name | Type | Description |
|---|---|---|
| snaplock_expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. This field will no longer be supported in a future release. Use snaplock.expiry_time instead. |
| snapmirror_label | string | Label for SnapMirror operations |
| state | string | State of the FlexGroup volume snapshot. In the "pre_conversion" state, the snapshot was created before converting the FlexVol to a FlexGroup volume. A recently created snapshot can be in the "unknown" state while the system is calculating the state. In the "partial" state, the snapshot is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial snapshots cannot be used for a snapshot restore operation. A snapshot is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a snapshot is valid. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| uuid | string | The UUID of the snapshot in the volume that uniquely identifies the snapshot in that volume. |
| vbn0_savings | integer | Savings due vbn0 at the time the snapshot was taken in bytes. |
| version_uuid | string | The 128 bit identifier that uniquely identifies a snapshot and its logical data layout. |

| Name | Type | Description |
|------|------|-------------|
| volume | volume | |

| Name | Type | Description |
|------|------|-------------|
| volume | volume | |

**Example response**

```json
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "compress_savings": 1131223,
  "create_time": "2019-02-04 19:00:00 +0000",
  "dedup_savings": 1131223,
  "delta": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "size_consumed": 0,
    "time_elapsed": "string"
  },
  "expiry_time": "2019-02-04 19:00:00 +0000",
  "logical_size": 1228800,
  "name": "this_snapshot",
  "owners": [
    "string"
  ],
  "provenance_volume": {
    "uuid": "4cd8a442-86d1-11e0-ae1c-125648563413"
  },
  "size": "122880",
  "snaplock": {
    "expired": 1,
    "expiry_time": "2019-02-04 19:00:00 +0000",
    "time_until_expiry": "PT3H27M45S"
  },
  "snaplock_expiry_time": "2019-02-04 19:00:00 +0000",
  "snapmirror_label": "string",
  "state": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
```

```
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
    "vbn0_savings": 1131223,
    "version_uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
|---|---|
| 2 | An invalid value was entered for one of the fields. |
| 262197 | An invalid field was specified in the request. |
| 1638473 | Snapshot tag not found. |
| 1638503 | The snapshot does not exist on the specified volume. |
| 1638600 | The snapshot does not exist. |
| 1638615 | Bulk operations for snapshots are not supported on multiple SVMs. |

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

**Example error**

```json
{
  "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 | |

snapshot_delta

Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned.

| Name | Type | Description |
|------|------|-------------|
| _links | _links | |
| size_consumed | integer | Indicates the space that has changed between two specified WAFL file systems, in bytes. |
| time_elapsed | string | Time elapsed between two specified WAFL file systems. |

provenance_volume

| Name | Type | Description |
|------|------|-------------|
| uuid | string | UUID for the volume that is used to identify the source volume in a mirroring relationship. When the mirroring relationship is broken, a volume's Instance UUID and Provenance UUID are made identical. An unmirrored volume's Provenance UUID is the same as its Instance UUID. This field is valid for flexible volumes only. |

snaplock

| Name | Type | Description |
|---|---|---|
| expired | boolean | Indicates whether a SnapLock snapshot has expired. |
| expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. It can also be used to extend the expiry time of a locked snapshot on a SnapLock for SnapVault destination consistency-group. |
| time_until_expiry | string | Indicates the remaining SnapLock expiry time of a locked snapshot, in seconds. This field is set only when the remaining time interval is less than 136 years. |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

volume

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

| Name | Type | Description |
|------|------|-------------|
| name | string | The name of the volume. This field cannot be specified in a PATCH method. |
| 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.<br><br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br><br>• Introduced in: 9.6<br><br>• x-nullable: true |

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. |

# Update a volume snapshot

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

**Introduced In:** 9.6

Updates a Volume snapshot.

## 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 UUID |
| return_timeout | integer | query | False | 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.<br><br>- Default value: 0<br>- Max value: 120<br>- Min value: 0 |

## Request Body

| Name | Type | Description |
|------|------|-------------|
| comment | string | A comment associated with the snapshot. This is an optional attribute for POST or PATCH. |
| compress_savings | integer | Savings due to compression at the time the snapshot was taken in bytes. |
| create_time | string | Creation time of the snapshot. It is the volume access time when the snapshot was created. |
| dedup_savings | integer | Savings due to dedup at the time the snapshot was taken in bytes. |
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |
| expiry_time | string | The expiry time for the snapshot. This is an optional attribute for POST or PATCH. Snapshots with an expiry time set are not allowed to be deleted until the retention time is reached. |
| logical_size | integer | Size of the logical used file system at the time the snapshot is captured. |
| name | string | Snapshot. Valid in POST or PATCH. |
| owners | array[string] | |
| provenance_volume | provenance_volume | |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |

| Name | Type | Description |
|------|------|-------------|
| size | integer | Size of the active file system at the time the snapshot is captured. The actual size of the snapshot also includes those blocks trapped by other snapshots. On a snapshot deletion, the "size" amount of blocks is the maximum number of blocks available. On a snapshot restore, the "afs-used size" value will match the snapshot "size" value. |
| snaplock | snaplock | |
| snaplock_expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. This field will no longer be supported in a future release. Use snaplock.expiry_time instead. |
| snapmirror_label | string | Label for SnapMirror operations |
| state | string | State of the FlexGroup volume snapshot. In the "pre_conversion" state, the snapshot was created before converting the FlexVol to a FlexGroup volume. A recently created snapshot can be in the "unknown" state while the system is calculating the state. In the "partial" state, the snapshot is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial snapshots cannot be used for a snapshot restore operation. A snapshot is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a snapshot is valid. |

| Name | Type | Description |
|---|---|---|
| svm | svm | SVM, applies only to SVM-scoped objects. |
| uuid | string | The UUID of the snapshot in the volume that uniquely identifies the snapshot in that volume. |
| vbn0_savings | integer | Savings due vbn0 at the time the snapshot was taken in bytes. |
| version_uuid | string | The 128 bit identifier that uniquely identifies a snapshot and its logical data layout. |
| volume | volume | |

**Example request**

```
{
  "comment": "string",
  "compress_savings": 1131223,
  "create_time": "2019-02-04 19:00:00 +0000",
  "dedup_savings": 1131223,
  "delta": {
    "size_consumed": 0,
    "time_elapsed": "string"
  },
  "expiry_time": "2019-02-04 19:00:00 +0000",
  "logical_size": 1228800,
  "name": "this_snapshot",
  "owners": [
    "string"
  ],
  "provenance_volume": {
    "uuid": "4cd8a442-86d1-11e0-ae1c-125648563413"
  },
  "size": "122880",
  "snaplock": {
    "expired": 1,
    "expiry_time": "2019-02-04 19:00:00 +0000",
    "time_until_expiry": "PT3H27M45S"
  },
  "snaplock_expiry_time": "2019-02-04 19:00:00 +0000",
  "snapmirror_label": "string",
  "state": "string",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "vbn0_savings": 1131223,
  "version_uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "volume": {
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|------|------|-------------|
| job | job_link | |

**Example response**

```
{
  "job": {
    "uuid": "string"
  }
}
```

## Response

```
Status: 202, Accepted
```

## Error

```
Status: Default
```

ONTAP Error Response Code

| Error Code | Description |
|------------|-------------|
| 524508 | The snapshot was not renamed because the name entered is not valid. |
| 542797 | The specified file or snapshot does not exist. |
| 1638455 | Failed to set comment for snapshot. |
| 1638476 | You cannot rename a snapshot created for use as a reference snapshot by other jobs. |
| 1638477 | User-created snapshot names cannot begin with the specified prefix. |
| 1638518 | The specified snapshot name is invalid. |
| 1638522 | Snapshots can only be renamed on read/write (RW) volumes. |

| Error Code | Description |
| --- | --- |
| 1638523 | Failed to set the specified SnapMirror label for the snapshot. |
| 1638524 | Adding SnapMirror labels is not allowed in a mixed version cluster. |
| 1638539 | Cannot determine the status of the snapshot rename operation for the specified volume. |
| 1638554 | Failed to set expiry time for the snapshot. |
| 1638600 | The snapshot does not exist. |
| 1638644 | POST, DELETE, and PATCH requests on the snapshot session endpoint are not supported on this platform. |

## Definitions

## See Definitions

href

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

_links

snapshot_delta

Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned.

| Name | Type | Description |
|------|------|-------------|
| size_consumed | integer | Indicates the space that has changed between two specified WAFL file systems, in bytes. |
| time_elapsed | string | Time elapsed between two specified WAFL file systems. |

provenance_volume

| Name | Type | Description |
|------|------|-------------|
| uuid | string | UUID for the volume that is used to identify the source volume in a mirroring relationship. When the mirroring relationship is broken, a volume's Instance UUID and Provenance UUID are made identical. An unmirrored volume's Provenance UUID is the same as its Instance UUID. This field is valid for flexible volumes only. |

snaplock

| Name | Type | Description |
|------|------|-------------|
| expired | boolean | Indicates whether a SnapLock snapshot has expired. |

| Name | Type | Description |
|---|---|---|
| expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. It can also be used to extend the expiry time of a locked snapshot on a SnapLock for SnapVault destination consistency-group. |
| time_until_expiry | string | Indicates the remaining SnapLock expiry time of a locked snapshot, in seconds. This field is set only when the remaining time interval is less than 136 years. |

svm

SVM, applies only to SVM-scoped objects.

| Name | Type | Description |
|---|---|---|
| name | string | The name of the SVM. This field cannot be specified in a PATCH method. |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

volume

| Name | Type | Description |
|---|---|---|
| name | string | The name of the volume. This field cannot be specified in a PATCH method. |

| Name | Type | Description |
|------|------|-------------|
| 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.<br><br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br><br>• Introduced in: 9.6<br><br>• x-nullable: true |

snapshot

The snapshot object represents a point in time snapshot of a volume.

| Name | Type | Description |
|------|------|-------------|
| comment | string | A comment associated with the snapshot. This is an optional attribute for POST or PATCH. |
| compress_savings | integer | Savings due to compression at the time the snapshot was taken in bytes. |
| create_time | string | Creation time of the snapshot. It is the volume access time when the snapshot was created. |
| dedup_savings | integer | Savings due to dedup at the time the snapshot was taken in bytes. |
| delta | snapshot_delta | Reports the amount of space consumed between two WAFL file systems, in bytes. The two WAFL file systems should be specified in a comma-separated format using the "name" parameter. To determine the space consumed between a snapshot and the Active File System, only the snapshot name needs to be mentioned. |

| Name | Type | Description |
|------|------|-------------|
| expiry_time | string | The expiry time for the snapshot. This is an optional attribute for POST or PATCH. Snapshots with an expiry time set are not allowed to be deleted until the retention time is reached. |
| logical_size | integer | Size of the logical used file system at the time the snapshot is captured. |
| name | string | Snapshot. Valid in POST or PATCH. |
| owners | array[string] | |
| provenance_volume | provenance_volume | |
| reclaimable_space | integer | Space reclaimed when the snapshot is deleted, in bytes. |
| size | integer | Size of the active file system at the time the snapshot is captured. The actual size of the snapshot also includes those blocks trapped by other snapshots. On a snapshot deletion, the "size" amount of blocks is the maximum number of blocks available. On a snapshot restore, the "afs-used size" value will match the snapshot "size" value. |
| snaplock | snaplock | |
| snaplock_expiry_time | string | SnapLock expiry time for the snapshot, if the snapshot is taken on a SnapLock volume. A snapshot is not allowed to be deleted or renamed until the SnapLock ComplianceClock time goes beyond this retention time. This option can be set during snapshot POST and snapshot PATCH on snapshot locking enabled volumes. This field will no longer be supported in a future release. Use snaplock.expiry_time instead. |

| Name | Type | Description |
|---|---|---|
| snapmirror_label | string | Label for SnapMirror operations |
| state | string | State of the FlexGroup volume snapshot. In the "pre_conversion" state, the snapshot was created before converting the FlexVol to a FlexGroup volume. A recently created snapshot can be in the "unknown" state while the system is calculating the state. In the "partial" state, the snapshot is consistent but exists only on the subset of the constituents that existed prior to the FlexGroup's expansion. Partial snapshots cannot be used for a snapshot restore operation. A snapshot is in an "invalid" state when it is present in some FlexGroup constituents but not in others. At all other times, a snapshot is valid. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| uuid | string | The UUID of the snapshot in the volume that uniquely identifies the snapshot in that volume. |
| vbn0_savings | integer | Savings due vbn0 at the time the snapshot was taken in bytes. |
| version_uuid | string | The 128 bit identifier that uniquely identifies a snapshot and its logical data layout. |
| volume | volume | |

job_link

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

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. |