



Manage S3 bucket snapshots

REST API reference

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Manage S3 bucket snapshots

Manage S3 bucket snapshots

Overview

An S3 bucket snapshot is an image of the bucket as it exists at the time when the snapshot is created.

S3 bucket snapshots can be created using scheduled snapshot policies set on the bucket, or user requested snapshot creations.

S3 bucket snapshot APIs allow you to create, delete, and retrieve snapshots.

Snapshot APIs

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

– POST /api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots

– GET /api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots

– GET /api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots/{uuid}

– DELETE /api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots/{uuid}

Examples

Creating an S3 bucket snapshot

The POST operation is used to create an S3 bucket snapshot with the specified name.

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots:

# The call:
curl -X POST -k "https://<mgmt-
ip>/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshot
s" -H "accept: application/json" -d '{"name" : "ss1"}'

# The response:
{
  "job": {
    "uuid": "af10a4d1-60b3-11ef-82cf-005056ae1130",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/af10a4d1-60b3-11ef-82cf-005056ae1130"
      }
    }
  }
}
```

```

}

# The Job:
{
  "uuid": "af10a4d1-60b3-11ef-82cf-005056ae1130",
  "description": "POST /api/protocols/s3/services/148b9bbd-58d8-11ef-b7ca-005056ae1130/buckets/2aec8270-58e3-11ef-861e-005056ae1130/snapshots/?name=ss1",
  "state": "success",
  "message": "success",
  "code": 0,
  "start_time": "2024-08-22T14:23:52-04:00",
  "end_time": "2024-08-22T14:23:54-04:00",
  "svm": {
    "name": "vs0",
    "uuid": "148b9bbd-58d8-11ef-b7ca-005056ae1130",
    "_links": {
      "self": {
        "href": "/api/svm/svms/148b9bbd-58d8-11ef-b7ca-005056ae1130"
      }
    }
  },
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/af10a4d1-60b3-11ef-82cf-005056ae1130"
    }
  }
}

```

Retrieving S3 bucket snapshots

The GET operation is used to retrieve all S3 bucket snapshots for a specific bucket.

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots:

# The call:
curl -X GET -k "https://<mgmt-
ip>/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshot
s" -H "accept: application/json"

# The response:
{
  "records": [
    {
      "uuid": "20837456-3c8b-405a-aa3a-5300c048f87d",
      "name": "ss1"
    },
    {
      "uuid": "c67cd056-d386-477a-8378-fcc06987bedf",
      "name": "ss2"
    }
  ],
  "num_records": 2
}
```

Retrieving S3 bucket snapshots and all snapshot attributes

The GET operation is used to retrieve all S3 bucket snapshots for a specific bucket along with all the snapshot attributes.

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots:

# The call:
curl -X GET -k "https://<mgmt-
ip>/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshot
s?fields=*" -H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "148b9bbd-58d8-11ef-b7ca-005056ae1130"
      },
      "bucket": {
        "uuid": "2aec8270-58e3-11ef-861e-005056ae1130"
      },
      "uuid": "20837456-3c8b-405a-aa3a-5300c048f87d",
      "name": "ss1",
      "create_time": "2024-08-22T14:23:54-04:00"
    },
    {
      "svm": {
        "uuid": "148b9bbd-58d8-11ef-b7ca-005056ae1130"
      },
      "bucket": {
        "uuid": "2aec8270-58e3-11ef-861e-005056ae1130"
      },
      "uuid": "c67cd056-d386-477a-8378-fcc06987bedf",
      "name": "ss2",
      "create_time": "2024-08-22T14:30:42-04:00"
    }
  ],
  "num_records": 2
}
```

Retrieving the attributes of a specific S3 bucket snapshot

The GET operation is used to retrieve the attributes of a specific S3 bucket snapshot.

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots/{
uuid}:

# The call:
curl -X GET -k "https://<mgmt-
ip>/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshot
s/{uuid}" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "148b9bbd-58d8-11ef-b7ca-005056ae1130"
  },
  "bucket": {
    "uuid": "2aec8270-58e3-11ef-861e-005056ae1130"
  },
  "uuid": "c67cd056-d386-477a-8378-fcc06987bedf",
  "name": "ss2",
  "create_time": "2024-08-22T14:30:42-04:00"
}
```

Deleting an S3 bucket snapshot

The DELETE operation is used to delete an S3 bucket snapshot.

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots/{
uuid}:

# The call:
curl -X DELETE -k "https://<mgmt-
ip>/api/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshot
s/{uuid}" -H "accept: application/json"

# The response:
{
  "job": {
    "uuid": "94f97fa9-60b7-11ef-82cf-005056ae1130",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/94f97fa9-60b7-11ef-82cf-005056ae1130"
      }
    }
  }
}
```

```

}

# The Job:
{
  "uuid": "94f97fa9-60b7-11ef-82cf-005056ae1130",
  "description": "DELETE /api/protocols/s3/services/148b9bbd-58d8-11ef-b7ca-005056ae1130/buckets/2aec8270-58e3-11ef-861e-005056ae1130/snapshots/c67cd056-d386-477a-8378-fcc06987bedf",
  "state": "success",
  "message": "success",
  "code": 0,
  "start_time": "2024-08-22T14:51:46-04:00",
  "end_time": "2024-08-22T14:51:47-04:00",
  "svm": {
    "name": "vs0",
    "uuid": "148b9bbd-58d8-11ef-b7ca-005056ae1130",
    "_links": {
      "self": {
        "href": "/api/svm/svms/148b9bbd-58d8-11ef-b7ca-005056ae1130"
      }
    }
  },
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/94f97fa9-60b7-11ef-82cf-005056ae1130"
    }
  }
}

```

Retrieve a collection of S3 bucket snapshots

GET /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots

Introduced In: 9.16

Retrieves a collection of S3 bucket snapshots.

Related ONTAP commands

- `vserver object-store-server bucket snapshot show`

Learn more

- [DOC /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
s3_bucket.uuid	string	path	True	The unique identifier of the bucket.
create_time	string	query	False	Filter by create_time
name	string	query	False	Filter by name
svm.name	string	query	False	Filter by svm.name
uuid	string	query	False	Filter by uuid
bucket_uuid	string	query	False	Filter by bucket_uuid
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
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	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. • Default value: 15 • 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	collection_links	
num_records	integer	Number of records
records	array[s3_bucket_snapshot]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "bucket_uuid": "2aec8270-58e3-11ef-861e-005056ae1130",
      "create_time": "2024-08-21 20:18:04 -0400",
      "name": "snap1",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "uuid": "522b29a1-3b26-11e9-bd58-0050568ea321"
    }
  ]
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

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

Definitions

See Definitions

href

Name	Type	Description
href	string	

collection_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

Specifies the name of the SVM where this bucket exists.

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.

s3_bucket_snapshot

Information about an S3 bucket snapshot.

Name	Type	Description
_links	_links	
bucket_uuid	string	The unique identifier of the bucket.
create_time	string	Creation time of the snapshot. It is the storage unit access time when the snapshot was created.

Name	Type	Description
name	string	The name of the snapshot. Snapshot names must start with a lowercase letter, a number, or a hyphen, must end with a lowercase letter or a number, and cannot exceed 30 characters.
svm	svm	Specifies the name of the SVM where this bucket exists.
uuid	string	The UUID of the snapshot in the bucket that uniquely identifies the snapshot in that bucket.

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 an S3 bucket snapshot

POST /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots

Introduced In: 9.16

Creates an S3 bucket snapshot.

Required properties

- `name` - Name of the S3 bucket snapshot to be created.

Related ONTAP commands

- `vserver object-store-server bucket snapshot create`

Learn more

- [DOC /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
<code>s3_bucket.uuid</code>	string	path	True	Unique identifier of a bucket.
<code>return_timeout</code>	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. • Default value: 0 • Max value: 120 • 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. • Default value:
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
bucket_uuid	string	The unique identifier of the bucket.
create_time	string	Creation time of the snapshot. It is the storage unit access time when the snapshot was created.
name	string	The name of the snapshot. Snapshot names must start with a lowercase letter, a number, or a hyphen, must end with a lowercase letter or a number, and cannot exceed 30 characters.
svm	svm	Specifies the name of the SVM where this bucket exists.
uuid	string	The UUID of the snapshot in the bucket that uniquely identifies the snapshot in that bucket.

Example request

```
{
  "bucket_uuid": "2aec8270-58e3-11ef-861e-005056ae1130",
  "create_time": "2024-08-21 20:18:04 -0400",
  "name": "snap1",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "522b29a1-3b26-11e9-bd58-0050568ea321"
}
```

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 Codes

Error code	Message
92405861	"The specified SVM UUID or bucket UUID does not exist.";
92406249	"Failed to create S3 bucket snapshot "{snapshot name}" for S3 bucket "{bucket name}" in SVM "{svm name}". Reason: {Reason for failure} ";

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

Specifies the name of the SVM where this bucket exists.

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.

s3_bucket_snapshot

Information about an S3 bucket snapshot.

Name	Type	Description
bucket_uuid	string	The unique identifier of the bucket.
create_time	string	Creation time of the snapshot. It is the storage unit access time when the snapshot was created.
name	string	The name of the snapshot. Snapshot names must start with a lowercase letter, a number, or a hyphen, must end with a lowercase letter or a number, and cannot exceed 30 characters.
svm	svm	Specifies the name of the SVM where this bucket exists.
uuid	string	The UUID of the snapshot in the bucket that uniquely identifies the snapshot in that bucket.

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 an S3 bucket snapshot

DELETE

/protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots/{uuid}

Introduced In: 9.16

Deletes S3 bucket snapshot.

Related ONTAP commands

- `vserver object-store-server bucket snapshot delete`

Learn more

- [DOC /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
s3_bucket.uuid	string	path	True	The unique identifier of the bucket.
uuid	string	path	True	The unique identifier of the S3 bucket snapshot.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error code	Message
92405861	"The specified SVM UUID or bucket UUID does not exist.";
92406250	"Failed to delete S3 bucket snapshot "{snapshot name}" for S3 bucket "{bucket name}" in SVM "{svm name}". Reason: {Reason for failure} ";
92406278	"Failed to delete S3 bucket snapshot with UUID "{snapshot uuid}" for S3 bucket "{bucket name}" in SVM "{svm name}". Reason: {Reason for failure} ";

Name	Type	Description
error	returned_error	

Example error

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

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

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

Retrieve details of a specific S3 bucket snapshot

GET /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots/{uuid}

Introduced In: 9.16

Retrieves details of a specific S3 bucket snapshot.

Related ONTAP commands

- `vserver object-store-server bucket snapshot show`

Learn more

- [DOC /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/snapshots](#)

Parameters

Name	Type	In	Required	Description
s3_bucket.uuid	string	path	True	The unique identifier of the bucket.
uuid	string	path	True	The unique identifier of the S3 bucket snapshot.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
bucket_uuid	string	The unique identifier of the bucket.
create_time	string	Creation time of the snapshot. It is the storage unit access time when the snapshot was created.

Name	Type	Description
name	string	The name of the snapshot. Snapshot names must start with a lowercase letter, a number, or a hyphen, must end with a lowercase letter or a number, and cannot exceed 30 characters.
svm	svm	Specifies the name of the SVM where this bucket exists.
uuid	string	The UUID of the snapshot in the bucket that uniquely identifies the snapshot in that bucket.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "bucket_uuid": "2aec8270-58e3-11ef-861e-005056ae1130",
  "create_time": "2024-08-21 20:18:04 -0400",
  "name": "snap1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "522b29a1-3b26-11e9-bd58-0050568ea321"
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_error	

Example error

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

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

Specifies the name of the SVM where this bucket exists.

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.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

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

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