



Manage S3 buckets

REST API reference

NetApp

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Manage S3 buckets

Protocols S3 buckets endpoint overview

Overview

An S3 bucket is a container of objects. Each bucket defines an object namespace. S3 server requests specify objects using a bucket-name and object-name pair. An object consists of data, along with optional metadata and access controls, that is accessible using a name. An object resides within a bucket. There can be more than one bucket in an S3 server. Buckets that are created for the server are associated with an S3 user that is created on the S3 server.

Examples

Retrieving all fields for all S3 buckets of a cluster

```
# The API:  
/api/protocols/s3/buckets  
  
# The call:  
curl -X GET  
"https://10.140.117.223/api/protocols/s3/buckets?fields=&return_records=true" -H "accept: application/json"  
  
# The response:  
{  
  "records": [  
    {  
      "svm": {  
        "uuid": "12f3ba4c-7ae0-11e9-8c06-0050568ea123",  
        "name": "vs1"  
      },  
      "uuid": "527812ab-7c6d-11e9-97e8-0050568ea123",  
      "name": "bucket-2",  
      "volume": {  
        "name": "fg_oss_1558514455",  
        "uuid": "51276f5f-7c6d-11e9-97e8-0050568ea123"  
      },  
      "size": 209715200,  
      "logical_used_size": 157286400,  
      "encryption": {  
        "enabled": false  
      },  
      "comment": "S3 bucket."  
    },  
    {
```

```

"svm": {
    "uuid": "12f3ba4c-7ae0-11e9-8c06-0050568ea123",
    "name": "vs1"
},
"uuid": "a8234aec-7e06-11e9-97e8-0050568ea123",
"name": "bucket-1",
"volume": {
    "name": "fg_oss_1558690256",
    "uuid": "a36a1ea7-7e06-11e9-97e8-0050568ea123"
},
"size": 1677721600,
"logical_used_size": 0,
"encryption": {
    "enabled": false
},
"comment": "bucket1"
},
{
    "svm": {
        "uuid": "ee30eb2d-7ae1-11e9-8abe-0050568ea123",
        "name": "vs2"
    },
    "uuid": "19283b75-7ae2-11e9-8abe-0050568ea123",
    "name": "bucket-3",
    "volume": {
        "name": "fg_oss_1558690257",
        "uuid": "a46a1ea7-7e06-11e9-97e8-0050568ea123"
    },
    "size": 1677721600,
    "logical_used_size": 1075838976,
    "encryption": {
        "enabled": false
    },
    "comment": "bucket3"
}
],
"num_records": 3
}

```

Retrieving all S3 buckets of a cluster ordered by size

```

# The API:
/api/protocols/s3/buckets

# The call:
curl -X GET
"https://10.140.117.223/api/protocols/s3/buckets?return_records=true&order
_by=size" -H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "12f3ba4c-7ae0-11e9-8c06-0050568ea123",
        "name": "vs1"
      },
      "uuid": "754389d0-7e13-11e9-bfdc-0050568ea123",
      "name": "bb1",
      "size": 83886080
    },
    {
      "svm": {
        "uuid": "ee30eb2d-7ae1-11e9-8abe-0050568ea123",
        "name": "vs2"
      },
      "uuid": "19283b75-7ae2-11e9-8abe-0050568ea123",
      "name": "bb2",
      "size": 83886080
    },
    {
      "svm": {
        "uuid": "12f3ba4c-7ae0-11e9-8c06-0050568ea123",
        "name": "vs1"
      },
      "uuid": "a8234aec-7e06-11e9-97e8-0050568ea123",
      "name": "bucket-1",
      "size": 1677721600
    }
  ],
  "num_records": 3
}

```

Retrieving all S3 buckets of a cluster with name "bb2"

```

# The API:
/api/protocols/s3/buckets

# The call:
curl -X GET
"https://10.140.117.223/api/protocols/s3/buckets?name=bb2&return_records=true" -H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "12f3ba4c-7ae0-11e9-8c06-0050568ea123",
        "name": "vs1"
      },
      "uuid": "087d940e-7e15-11e9-bfdc-0050568ea123",
      "name": "bb2"
    },
    {
      "svm": {
        "uuid": "ee30eb2d-7ae1-11e9-8abe-0050568ea123",
        "name": "vs2"
      },
      "uuid": "19283b75-7ae2-11e9-8abe-0050568ea123",
      "name": "bb2"
    }
  ],
  "num_records": 2
}

```

Retrieve all S3 buckets for all SVMs

GET /protocols/s3/buckets

Retrieves all S3 buckets for all SVMs.

Related ONTAP commands

- `vserver object-store-server bucket show`

Learn more

- [DOC /protocols/s3/buckets](#)

Parameters

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
encryption.enabled	boolean	query	False	Filter by encryption.enabled
uuid	string	query	False	Filter by uuid
logical_used_size	integer	query	False	Filter by logical_used_size
size	integer	query	False	Filter by size
volume.uuid	string	query	False	Filter by volume.uuid
volume.name	string	query	False	Filter by volume.name
name	string	query	False	Filter by name
comment	string	query	False	Filter by comment
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.

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.
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]	

Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "records": [  
    {  
      "comment": "S3 bucket.",  
      "logical_used_size": 0,  
      "name": "bucket-1",  
      "size": 1677721600,  
      "svm": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "svm1",  
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
      },  
      "uuid": "414b29a1-3b26-11e9-bd58-0050568ea055",  
      "volume": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "volume1",  
        "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"  
      }  
    }  
  ]  
}
```

Error

Status: Default, Error

Name	Type	Description
error	error	

Example error

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

Definitions

See Definitions

href

Name	Type	Description
href	string	

collection_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

aggregates

Aggregate

Name	Type	Description
_links	_links	
name	string	
uuid	string	

encryption

Name	Type	Description
enabled	boolean	Specifies whether encryption is enabled on the bucket. By default, encryption is disabled on a bucket.

svm

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

volume

Specifies the FlexGroup volume name and UUID where the bucket is hosted.

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

s3_bucket

A bucket is a container of objects. Each bucket defines an object namespace. S3 requests specify objects using a bucket-name and object-name pair. An object resides within a bucket.

Name	Type	Description
comment	string	Can contain any additional information about the bucket being created or modified.
encryption	encryption	
logical_used_size	integer	Specifies the bucket logical used size up to this point.
name	string	Specifies the name of the bucket. Bucket name is a string that can only contain the following combination of ASCII-range alphanumeric characters 0-9, a-z, ".", and "-".
size	integer	Specifies the bucket size in bytes; ranges from 80MB to 64TB.
svm	svm	
uuid	string	Specifies the unique identifier of the bucket.
volume	volume	Specifies the FlexGroup volume name and UUID where the bucket is hosted.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

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

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