

Manage S3 service bucket configuration

ONTAP 9.13.1 REST API reference

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Manage S3 service bucket configuration

Protocols S3 services svm.uuid 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, accessible via a name. An object resides within a bucket. There can be more than one bucket in an S3 server. Buckets which are created for the server are associated with an S3 user that is created on the S3 server. An access policy is an object that when associated with a resource, defines their permissions. Buckets and objects are defined as resources. By default, only the "root" user can access these resources. Access policies are used to manage access to these resources by enabling ONTAP admin to provide "grants" to allow other users to perform operations on the buckets.

Examples

Retrieving all fields for all S3 buckets of an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets
# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/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.",
```

```
"qos policy": {
    "min throughput iops": 0,
   "min throughput mbps": 0,
   "max throughput iops": 1000,
   "max throughput mbps": 50,
   "uuid": "39ac471f-ff35-11e9-b0f9-005056a7ab52",
   "name": "vs0 auto gen policy 39a9522f ff35 11e9 b0f9 005056a7ab52"
 },
  "audit event selector": {
   "access": "all",
   "permission": "all"
  "versioning-state": "disabled"
},
 "svm": {
    "uuid": "12f3ba4c-7ae0-11e9-8c06-0050568ea123",
   "name": "vs1"
  "uuid": "a8234aec-7e06-11e9-97e8-0050568ea123",
  "name": "bucket-1",
 "volume": {
   "name": "fg oss 1558690256",
   "uuid": "a36alea7-7e06-11e9-97e8-0050568ea123"
  },
  "size": 1677721600,
  "logical used size": 0,
 "encryption": {
   "enabled": false
  "comment": "bucket1",
  "qos policy": {
   "min throughput iops": 0,
   "min throughput mbps": 0,
   "max throughput iops": 1000,
   "max throughput mbps": 50,
   "uuid": "39ac471f-ff35-11e9-b0f9-005056a7ab52",
    "name": "vs0_auto gen_policy 39a9522f_ff35_11e9_b0f9_005056a7ab52"
  "policy": {
    "statements": [
        "effect": "allow",
        "actions": [
         11 * 11
        ],
```

```
"principals": [
   "Alice"
 ],
 "resources": [
 ],
 "sid": "fullAccessForAliceToBucket"
},
 "effect": "allow",
 "actions": [
   "ListBucket",
   "GetObject"
 ],
 "principals": [
   "ann",
   "jack"
 ],
 "resources": [
   "bucket-1",
   "bucket-1/*"
 ],
 "sid": "AccessToListAndGetObjectForAnnAndJack",
 "conditions": [
   {
     "operator": "ip_address",
     "source ips": [
      "1.1.1.1/10"
     ]
    } ,
     "operator": "string equals",
     "prefixes": [
       "pref1",
       "pref2"
     ],
      "usernames": [
       "user1",
       "user2"
     ],
      "delimiters": [
       "del1",
       "de12"
     ]
    },
```

```
"operator": "numeric_equals",
      "max keys": [
        100
      ]
 1
},
  "effect": "deny",
  "actions": [
   "*Object"
  ],
  "principals": [
   "mike",
   "group/group1"
  ],
  "resources": [
    "bucket-1/policy-docs/*",
   "bucket-1/confidential-*"
  "sid": "DenyAccessToGetPutDeleteObjectForMike"
},
  "effect": "allow",
  "actions": [
   "GetObject"
  "principals": [
   11 * 11
  ],
  "resources": [
   "bucket-1/readme"
  ],
  "sid": "AccessToGetObjectForAnonymousUsers"
},
  "effect": "allow",
  "actions": [
   "GetObject"
  ],
  "principals": [
  ],
  "resources": [
   "bucket-1/policies/examples/*"
  "sid": "AccessToGetObjectForAllUsersOfSVM"
```

Retrieving the specified bucket associated with an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{uuid}
# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/buckets/527812ab-7c6d-11e9-97e8-0050568ea123" -H
"accept: application/json"
# The response:
"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.",
"qos policy": {
 "min throughput iops": 0,
 "min throughput mbps": 0,
 "max throughput iops": 1000,
 "max throughput mbps": 0,
 "uuid": "39ac471f-ff35-11e9-b0f9-005056a7ab52",
 "name": "vs0 auto gen policy 39a9522f ff35 11e9 b0f9 005056a7ab52"
}
}
```

Creating an S3 bucket for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets
# The call:
curl -iku admin:netapp1! -X POST "https://<mgmt-</pre>
ip>/api/protocols/s3/services/12f3ba4c-7ae0-11e9-8c06-
0050568ea123/buckets?return records=true" -H "accept: application/json" -H
"Content-Type: application/json" -d "{ \"aggregates\": [ { \"name\":
\"aggr5\", \"uuid\": \"12f3ba4c-7ae0-11e9-8c06-0050568ea123\" } ],
\"comment\": \"S3 bucket.\", \"constituents per aggregate\": 4, \"name\":
\"bucket-3\"}"
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:22:14 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, must-revalidate
Location: /api/protocols/s3/services/12f3ba4c-7ae0-11e9-8c06-
0050568ea123/buckets/?name=bucket-3
Content-Length: 353
Content-Type: application/json
"num records": 1,
"records": [
    "name": "bucket-3",
    "comment": "S3 bucket."
 }
],
"job": {
  "uuid": "2e880171-7e16-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea123"
  }
}
}
```

Creating an S3 bucket along with QoS policies and event selector for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets
# The call:
curl -iku admin:netapp1! -X POST "https://<mgmt-</pre>
ip>/api/protocols/s3/services/3e538980-f0af-11e9-ba68-
0050568e9798/buckets?return records=true" -H "accept: application/json" -H
"Content-Type: application/json" -d "{ \"comment\": \"S3 bucket.\",
\"name\": \"bucket-3\", \"qos policy\": { \"min throughput iops\": 0,
\"min throughput mbps\": 0, \"max throughput iops\": 1000000,
\"max throughput mbps\": 900000, \"uuid\": \"02d07a93-6177-11ea-b241-
000c293feac8\", \"name\":
\"vs0 auto gen policy 02cfa02a 6177 11ea b241 000c293feac8\" },
\"audit event selector\": { \"access\": \"all\", \"permission\":
\"all\"}}"
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:22:14 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, must-revalidate
Location: /api/protocols/s3/services/12f3ba4c-7ae0-11e9-8c06-
0050568ea123/buckets/?name=bucket-3
Content-Length: 353
Content-Type: application/json
"num records": 1,
"records": [
    "name": "bucket-3",
    "comment": "S3 bucket."
],
"job": {
  "uuid": "2e880171-7e16-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea123"
  }
}
```

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets
# The call:
curl -iku admin:netapp1! -X POST "https://<mgmt-</pre>
ip>/api/protocols/s3/services/3e538980-f0af-11e9-ba68-
0050568e9798/buckets?return records=true" -H "accept: application/json" -H
"Content-Type: application/json" -d "{ \"aggregates\": [ { \"name\":
\"aggr5\", \"uuid\": \"12f3ba4c-7ae0-11e9-8c06-0050568ea123\" } ],
\"comment\": \"S3 bucket.\", \"constituents per aggregate\": 4, \"name\":
\"bucket-3\", \"policy\": { \"statements\": [ { \"actions\": [
\"GetObject\" ], \"conditions\": [ { \"operator\": \"ip address\",
\"source ips\": [ \"1.1.1.1/23\", \"1.2.2.2/20\" ] }, { \"max keys\": [
1000 ], \"operator\": \"numeric_equals\" }, { \"delimiters\": [ \"/\" ],
\"operator\": \"string equals\", \"prefixes\": [ \"pref\" ],
\"usernames\": [ \"user1\" ] } ], \"effect\": \"allow\", \"resources\": [
\"bucket-3/policies/examples/*\" ], \"sid\":
\"AccessToGetObjectForAllUsersofSVM\" }, { \"actions\": [ \"*Object\" ],
\"effect\": \"deny\", \"principals\": [ \"mike\", \"group/grp1\" ],
\"resources\": [ \"bucket-3/policy-docs/*\", \"bucket-3/confidential-*\"
], \"sid\": \"DenyAccessToObjectForMike\" }, { \"actions\": [
\"GetObject\" ], \"effect\": \"allow\", \"principals\": [ \"*\" ],
\"resources\": [ \"bucket-3/readme\" ], \"sid\":
\"AnonnymousAccessToGetObjectForUsers\" } ] } "
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:22:14 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, must-revalidate
Location: /api/protocols/s3/services/12f3ba4c-7ae0-11e9-8c06-
0050568ea123/buckets/?name=bucket-3
Content-Length: 353
Content-Type: application/json
"num records": 1,
"records": [
    "name": "bucket-3",
    "comment": "S3 bucket."
 }
],
"job": {
```

```
"uuid": "2e880171-7e16-11e9-bfdc-0050568ea123",

"_links": {
    "self": {
        "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea123"
        }
    }
}
```

Creating an S3 bucket along with lifecycle management rules

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets
# The call:
curl -iku admin:netapp1! -X POST "https://<mgmt-</pre>
ip>/api/protocols/s3/services/3e538980-f0af-11e9-ba68-
0050568e9798/buckets?return records=true" -H "accept: application/json" -H
"Content-Type: application/json" -d "{ \"aggregates\": [ { \"name\":
\"aggr5\", \"uuid\": \"12f3ba4c-7ae0-11e9-8c06-0050568ea123\" } ],
\"comment\": \"S3 bucket.\", \"constituents per aggregate\": 4, \"name\":
\"bucket-4\", \"lifecycle management\": { \"rules\": [ { \"name\":
\"rule1\", \"expiration\": { \"object age_days\" : \"1000\" } ,
\"abort incomplete multipart upload\" : { \"after initiaion days\" : 200 }
, \"object filter\": { \"prefix\" : \"obj1*/\" , \"size greater than\" :
\"1000\" } }, { \"name\": \"rule2\", \"object filter\": {
\"size greater than\" : \"50\" }, \"expiration\": { \"object age days\" :
\"5000\" } } ] } "
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 18 April 2022 11:22:14 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache, no-store, must-revalidate
Location: /api/protocols/s3/services/12f3ba4c-7ae0-11e9-8c06-
0050568ea123/buckets/?name=bucket-4
Content-Length: 363
Content-Type: application/json
"num records": 1,
"records": [
    "name": "bucket-4",
    "comment": "S3 bucket."
  }
],
"job": {
  "uuid": "2e880171-7e16-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea123"
  }
}
}
```

Updating an S3 bucket for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{uuid}
# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/12f3ba4c-7ae0-
11e9-8c06-0050568ea123/buckets/754389d0-7e13-11e9-bfdc-0050568ea122" -H
"accept: application/json?return records=true" -H "Content-Type:
application/json" -d "{ \"comment\": \"Bucket modified.\", \"size\":
11111111111, \"qos policy\": { \"min throughput iops\": 0,
\"min throughput mbps\": 0, \"max throughput iops\": 1000000,
\"max throughput mbps\": 900000, \"uuid\": \"02d07a93-6177-11ea-b241-
000c293feac8\", \"name\":
\"vs0 auto gen policy 02cfa02a 6177 11ea b241 000c293feac8\"}}"
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:32:27 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": "9beafabb-7e17-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/9beafabb-7e17-11e9-bfdc-0050568ea123"
  }
}
}
```

Updating an S3 bucket policy and event selector for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{uuid}
# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/3e538980-f0af-
11e9-ba68-0050568e9798/buckets/754389d0-7e13-11e9-bfdc-
0050568ea122?return records=true" -H "accept: application/json" -H
"Content-Type: application/json" -d "{ \"policy\": { \"statements\": [ {
\"actions\": [ \"*\" ], \"conditions\": [ { \"operator\": \"ip address\",
\"source ips\": [ \"1.1.1.1/23\", \"1.2.2.2/20\" ] }, { \"max keys\": [
1000 ], \"operator\": \"numeric_equals\" }, { \"delimiters\": [ \"/\" ],
\"operator\": \"string equals\", \"prefixes\": [ \"pref\" ],
\"usernames\": [ \"user1\" ] } ], \"effect\": \"allow\", \"resources\": [
\"*\" ], \"sid\": \"fullAccessForAllPrincipalsToBucket\"} ] },
\"audit event selector\": { \"access\": \"read\", \"permission\":
\"denv\"} }"
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:32:27 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": "9beafabb-7e17-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/9beafabb-7e17-11e9-bfdc-0050568ea123"
  }
}
}
```

Deleting an S3 bucket policy for an SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{uuid}
# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/3e538980-f0af-
11e9-ba68-0050568e9798/buckets/754389d0-7e13-11e9-bfdc-
0050568ea122?return records=true" -H "accept: application/json" -H
"Content-Type: application/json" -d "{ \"policy\": { \"statements\": [ ] }
} "
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:32:27 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": "9beafabb-7e17-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/9beafabb-7e17-11e9-bfdc-0050568ea123"
  }
}
}
```

Deleting an S3 bucket for a specified SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{uuid}
# The call:
curl -iku admin:netapp1! -X DELETE "https://<mgmt-</pre>
ip>/api/protocols/s3/services/12f3ba4c-7ae0-11e9-8c06-
0050568ea123/buckets/754389d0-7e13-11e9-bfdc-
0050568ea123?return records=true" -H "accept: application/json"
# The response:
HTTP/1.1 202 Accepted
Date: Fri, 24 May 2019 11:40:17 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": "b3af4a54-7e18-11e9-bfdc-0050568ea123",
  " links": {
    "self": {
      "href": "/api/cluster/jobs/b3af4a54-7e18-11e9-bfdc-0050568ea123"
}
```

Retrieve S3 bucket configurations for an SVM

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

Introduced In: 9.7

Retrieves the S3 bucket's configuration of an SVM. Note that in order to retrieve S3 bucket policy conditions, the 'fields' option should be set to '**'.

Related ONTAP commands

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

- * vserver object-store-server bucket policy statement show
- vserver object-store-server bucket policy-statement-condition show
- vserver object-store-server bucket lifecycle-management-rule show

Learn more

• DOC /protocols/s3/services/{svm.uuid}/buckets

Parameters

| Name | Туре | In | Required | Description |
|---|---------|-------|----------|--|
| protection_status.is_ protected | boolean | query | False | Filter by protection_status.is_ protected • Introduced in: 9.10 |
| protection_status.de stination.is_cloud | boolean | query | False | Filter by protection_status.de stination.is_cloud • Introduced in: 9.10 |
| protection_status.de stination.is_external _cloud | boolean | query | False | Filter by protection_status.de stination.is_external _cloud • Introduced in: 9.12 |
| protection_status.de stination.is_ontap | boolean | query | False | Filter by protection_status.de stination.is_ontap • Introduced in: 9.10 |
| logical_used_size | integer | query | False | Filter by logical_used_size |
| svm.name | string | query | False | Filter by svm.name |
| encryption.enabled | boolean | query | False | Filter by encryption.enabled |

| Name | Туре | In | Required | Description |
|-------------------------------------|---------|-------|----------|---|
| size | integer | query | False | • Max value: • Max value: • 7036874417766 • Min value: 83886080 |
| volume.uuid | string | query | False | Filter by volume.uuid |
| volume.name | string | query | False | Filter by volume.name |
| comment | string | query | False | Filter by commentmaxLength: 256minLength: 0 |
| audit_event_selector .permission | string | query | False | Filter by audit_event_selector .permission • Introduced in: 9.10 |
| audit_event_selector .access | string | query | False | Filter by audit_event_selector .access • Introduced in: 9.10 |
| versioning_state | string | query | False | Filter by versioning_state • Introduced in: 9.11 |
| policy.statements.sid | string | query | False | Filter by policy.statements.sid • Introduced in: 9.8 |

| Name | Туре | In | Required | Description |
|---|---------|-------|----------|--|
| policy.statements.pri ncipals | string | query | False | Filter by policy.statements.pri ncipals • Introduced in: 9.8 |
| policy.statements.co nditions.usernames | string | query | False | Filter by policy.statements.co nditions.usernames • Introduced in: 9.8 |
| policy.statements.co nditions.max_keys | integer | query | False | Filter by policy.statements.co nditions.max_keys • Introduced in: 9.8 |
| policy.statements.co nditions.delimiters | string | query | False | Filter by policy.statements.co nditions.delimiters • Introduced in: 9.8 |
| policy.statements.co nditions.prefixes | string | query | False | Filter by policy.statements.co nditions.prefixes • Introduced in: 9.8 |
| policy.statements.co nditions.source_ips | string | query | False | Filter by policy.statements.co nditions.source_ips • Introduced in: 9.8 |
| policy.statements.co nditions.operator | string | query | False | Filter by policy.statements.co nditions.operator • Introduced in: 9.8 |

| Name | Туре | In | Required | Description |
|------------------------------------|---------|-------|----------|---|
| policy.statements.eff ect | string | query | False | Filter by policy.statements.eff ect • Introduced in: 9.8 |
| policy.statements.act ions | string | query | False | Filter by policy.statements.ac tions • Introduced in: 9.8 |
| policy.statements.re sources | string | query | False | Filter by policy.statements.re sources • Introduced in: 9.8 |
| type | string | query | False | • Introduced in: 9.12 |
| qos_policy.name | string | query | False | Filter by qos_policy.name • Introduced in: 9.8 |
| qos_policy.min_thro ughput_mbps | integer | query | False | Filter by qos_policy.min_thro ughput_mbps • Introduced in: 9.8 |
| qos_policy.min_thro ughput_iops | integer | query | False | Filter by qos_policy.min_thro ughput_iops • Introduced in: 9.8 |

| Name | Туре | In | Required | Description |
|--|---------|-------|----------|--|
| qos_policy.max_thro ughput_mbps | integer | query | False | Filter by qos_policy.max_thro ughput_mbps • Introduced in: 9.8 |
| qos_policy.uuid | string | query | False | Filter by qos_policy.uuid • Introduced in: 9.8 |
| qos_policy.max_thro ughput_iops | integer | query | False | Filter by qos_policy.max_thro ughput_iops • Introduced in: 9.8 |
| nas_path | string | query | False | • Introduced in: 9.12 |
| uuid | string | query | False | Filter by uuid |
| lifecycle_manageme nt.rules.expiration.ex pired_object_delete_ marker | boolean | query | False | Filter by lifecycle_manageme nt.rules.expiration.ex pired_object_delete _marker • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.expiration.ob ject_age_days | integer | query | False | Filter by lifecycle_manageme nt.rules.expiration.o bject_age_days • Introduced in: 9.13 |

| Name | Туре | In | Required | Description |
|--|---------|-------|----------|---|
| lifecycle_manageme nt.rules.expiration.ob ject_expiry_date | string | query | False | Filter by lifecycle_manageme nt.rules.expiration.o bject_expiry_date • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.object_filter. size_less_than | integer | query | False | Filter by lifecycle_manageme nt.rules.object_filter. size_less_than • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.object_filter.t ags | string | query | False | Filter by lifecycle_manageme nt.rules.object_filter.t ags • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.object_filter. size_greater_than | integer | query | False | Filter by lifecycle_manageme nt.rules.object_filter. size_greater_than • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.object_filter. prefix | string | query | False | Filter by lifecycle_manageme nt.rules.object_filter. prefix • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.name | string | query | False | Filter by lifecycle_manageme nt.rules.name • Introduced in: 9.13 |

| Name | Туре | In | Required | Description |
|--|---------|-------|----------|---|
| lifecycle_manageme nt.rules.non_current _version_expiration. non_current_days | integer | query | False | Filter by lifecycle_manageme nt.rules.non_current _version_expiration. non_current_days • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.non_current _version_expiration. new_non_current_ve rsions | | query | False | Filter by lifecycle_manageme nt.rules.non_current _version_expiration. new_non_current_v ersions • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.abort_incom plete_multipart_uplo ad.after_initiation_da ys | integer | query | False | Filter by lifecycle_manageme nt.rules.abort_incom plete_multipart_uplo ad.after_initiation_d ays • Introduced in: 9.13 |
| lifecycle_manageme nt.rules.enabled | boolean | query | False | Filter by lifecycle_manageme nt.rules.enabled • Introduced in: 9.13 |
| role | string | query | False | • Introduced in: 9.10 |
| name | string | query | False | • maxLength: 63 • minLength: 3 |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

| Name | Туре | In | Required | Description |
|----------------|---------------|-------|----------|--|
| 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 |
| 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. • Max value: 120 • Min value: 0 • Default value: 1 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Туре | Description |
|-------------|----------------------|-------------------|
| _links | collection_links | |
| num_records | integer | Number of records |
| records | array[s3_bucket_svm] | |

```
" links": {
  "next": {
   "href": "/api/resourcelink"
  },
  "self": {
   "href": "/api/resourcelink"
  }
},
"num records": 1,
"records": {
  "aggregates": {
    " links": {
      "self": {
       "href": "/api/resourcelink"
      }
    },
    "name": "aggr1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  "audit event selector": {
    "access": "read",
    "permission": "deny"
  },
  "comment": "S3 bucket.",
  "constituents per aggregate": 4,
  "lifecycle management": {
    "rules": {
      " links": {
        "self": {
         "href": "/api/resourcelink"
        }
      "abort incomplete multipart upload": {
        " links": {
          "self": {
            "href": "/api/resourcelink"
        }
      },
      "expiration": {
        " links": {
          "self": {
            "href": "/api/resourcelink"
```

```
}
    },
    "non current version expiration": {
      " links": {
       "self": {
          "href": "/api/resourcelink"
      }
    },
    "object filter": {
      " links": {
       "self": {
          "href": "/api/resourcelink"
       }
      } ,
      "prefix": "/logs",
      "size greater_than": 10485760,
      "size less than": 10240,
      "tags": [
       "project1=projA",
       "project2=projB"
      ]
   }
  }
},
"logical used size": 0,
"name": "bucket1",
"nas path": "/",
"policy": {
  "statements": {
    "actions": [
     "GetObject",
      "PutObject",
     "DeleteObject",
     "ListBucket"
    ],
    "conditions": {
      "delimiters": [
      11 / 11
      ],
      "max keys": [
      1000
      "operator": "ip address",
      "prefixes": [
```

```
"pref"
      ],
      "source ips": [
       "1.1.1.1",
       "1.2.2.0/24"
      ],
      "usernames": [
      "user1"
     1
    },
    "effect": "allow",
    "principals": [
     "user1",
     "group/grp1"
   ],
    "resources": [
     "bucket1",
     "bucket1/*"
    "sid": "FullAccessToUser1"
 }
},
"qos policy": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
 },
 "max throughput iops": 10000,
 "max throughput mbps": 500,
 "min throughput iops": 2000,
 "min throughput mbps": 500,
 "name": "performance",
 "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"role": "standalone",
"size": 1677721600,
"storage service level": "value",
"svm": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
 },
 "name": "svm1",
 "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
```

Error

```
Status: Default, Error
```

| Name | Туре | 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 | Туре | Description |
|------|--------|-------------|
| href | string | |

collection_links

| Name | Туре | Description |
|------|------|-------------|
| next | href | |
| self | href | |

_links

| Name | Туре | Description |
|------|------|-------------|
| self | href | |

aggregates

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

audit_event_selector

Event selector allows you to specify access and permission types to audit.

| Name | Туре | Description |
|------------|--------|--|
| access | string | Specifies read and write access types. |
| permission | string | Specifies allow and deny permission types. |

encryption

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

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket.

| Name | Туре | Description |
|-----------------------|---------|--|
| _links | _links | |
| after_initiation_days | integer | Number of days of initiation after which uploads can be aborted. |

expiration

Specifies a way to perform expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|------------------------------|---------|---|
| _links | _links | |
| expired_object_delete_marker | boolean | Cleanup object delete markers. |
| object_age_days | integer | Number of days since creation after which objects can be deleted. |
| object_expiry_date | string | Specific date from when objects can expire. |

non_current_version_expiration

Specifies a way to perform non current version expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|--------------------------|---------|---|
| _links | _links | |
| new_non_current_versions | integer | Number of latest non-current versions to be retained. |
| non_current_days | integer | Number of days after which non- current versions can be deleted. |

object filter

Specifies a way to filter objects within a bucket.

| Name | Туре | Description |
|--------|--------|--|
| _links | _links | |
| prefix | string | A prefix that is matched against object-names within a bucket. |

| Name | Туре | Description |
|-------------------|---------------|--|
| size_greater_than | integer | Size of the object greater than specified for which the corresponding lifecycle rule is to be applied. |
| size_less_than | integer | Size of the object smaller than specified for which the corresponding lifecycle rule is to be applied. |
| tags | array[string] | An array of key-value paired tags of the form <tag>or <tag=value>.</tag> |

rules

Information about the lifecycle management rule of a bucket.

| Name | Туре | Description |
|------------------------------------|------------------------------------|---|
| _links | _links | |
| abort_incomplete_multipart_uploa d | abort_incomplete_multipart_uploa d | Specifies a way to perform abort_incomplete_multipart_uplo ad action on filtered objects within a bucket. |
| enabled | boolean | Specifies whether or not the associated rule is enabled. |
| expiration | expiration | Specifies a way to perform expiration action on filtered objects within a bucket. |
| name | string | Bucket lifecycle management rule identifier. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket. |
| object_filter | object_filter | Specifies a way to filter objects within a bucket. |

lifecycle_management

Lifecycle management is implemented as an object associated with a bucket. It defines rules to be

applied against objects within a bucket. These rules are applied in the background and can delete objects.

| Name | Туре | Description |
|-------|--------------|--|
| rules | array[rules] | Specifies an object store lifecycle management policy. |

s3_bucket_policy_condition

Information about policy conditions based on various condition operators and condition keys.

| Name | Туре | Description |
|------------|----------------|--|
| delimiters | array[string] | An array of delimiters that are compared with the delimiter value specified at the time of execution of an S3-based command, using the condition operator specified. |
| max_keys | array[integer] | An array of maximum keys that are allowed or denied to be retrieved using an S3 list operation, based on the condition operator specified. |
| operator | string | Condition operator that is applied to the specified condition key. |
| prefixes | array[string] | An array of prefixes that are compared with the input prefix value specified at the time of execution of an S3-based command, using the condition operator specified. |
| source_ips | array[string] | An array of IP address ranges that are compared with the IP address of a source command at the time of execution of an S3-based command, using the condition operator specified. |
| usernames | array[string] | An array of usernames that a current user in the context is evaluated against using the condition operators. |

s3_bucket_policy_statement

Specifies information about a single access permission.

| Name | Туре | Description |
|------------|-----------------------------------|--|
| actions | array[string] | |
| conditions | array[s3_bucket_policy_condition] | Specifies bucket policy conditions. |
| effect | string | Specifies whether access is allowed or denied when a user requests the specific action. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access. |
| principals | array[string] | |
| resources | array[string] | |
| sid | string | Specifies the statement identifier used to differentiate between statements. |

policy

A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied.

| Name | Туре | Description |
|------------|------------------------------------|---|
| statements | array[s3_bucket_policy_statemen t] | Specifies bucket access policy statement. |

destination

| Name | Туре | Description |
|-------------------|---------|--|
| is_cloud | boolean | Specifies whether a bucket is protected within the Cloud. |
| is_external_cloud | boolean | Specifies whether a bucket is protected on external Cloud providers. |

| Name | Туре | Description |
|----------|---------|---|
| is_ontap | boolean | Specifies whether a bucket is protected within ONTAP. |
| | | Default value:readOnly: 1 |
| | | • Introduced in: 9.10 |
| | | x-nullable: true |

protection status

Specifies attributes of bucket protection.

| Name | Туре | Description |
|--------------|-------------|--|
| destination | destination | |
| is_protected | boolean | Specifies whether a bucket is a source and if it is protected within ONTAP and/or an external cloud. • Default value: • readOnly: 1 • Introduced in: 9.10 • x-nullable: true |

qos_policy

Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached.

| Name | Туре | Description |
|---------------------|---------|--|
| _links | _links | |
| max_throughput_iops | integer | Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |

| Name | Туре | Description |
|---------------------|---------|---|
| max_throughput_mbps | integer | Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_iops | integer | Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_mbps | integer | Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| name | string | The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH. |
| uuid | string | The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH. |

svm

| Name | Туре | 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 | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

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

s3_bucket_svm

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 | Туре | Description |
|----------------------------|----------------------|--|
| aggregates | array[aggregates] | A list of aggregates for FlexGroup volume constituents where the bucket is hosted. If this option is not specified, the bucket is autoprovisioned as a FlexGroup volume. |
| audit_event_selector | audit_event_selector | Event selector allows you to specify access and permission types to audit. |
| comment | string | Can contain any additional information about the bucket being created or modified. |
| constituents_per_aggregate | integer | Specifies the number of constituents or FlexVol volumes per aggregate. A FlexGroup volume consisting of all such constituents across all specified aggregates is created. This option is used along with the aggregates option and cannot be used independently. |
| encryption | encryption | |

| Name | Туре | Description |
|----------------------|----------------------|--|
| lifecycle_management | lifecycle_management | Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects. |
| 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 "-". |
| nas_path | string | Specifies the NAS path to which the nas bucket corresponds to. |
| policy | policy | A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied. |
| protection_status | protection_status | Specifies attributes of bucket protection. |

| Name | Туре | Description |
|-----------------------|------------|---|
| qos_policy | qos_policy | Specifes "qos_policy.max_throughput_iops " and/or "qos_policy.max_throughput_mb ps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbp s". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached. |
| role | string | Specifies the role of the bucket. |
| size | integer | Specifies the bucket size in bytes; ranges from 80MB to 64TB. |
| storage_service_level | string | Specifies the storage service level of the FlexGroup volume on which the bucket should be created. Valid values are "value", "performance" or "extreme". |
| svm | svm | |
| type | string | Specifies the bucket type. Valid values are "s3"and "nas". |
| uuid | string | Specifies the unique identifier of the bucket. |
| versioning_state | string | Specifies the versioning state of the bucket. Valid values are "disabled", "enabled" or "suspended". Note that the versioning state cannot be modified to 'disabled' from any other state. |

| Name | Туре | Description |
|--------|--------|--|
| volume | volume | Specifies the FlexGroup volume name and UUID where the bucket is hosted. |

error_arguments

| Name | Туре | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Туре | 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 configuration for an SVM

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

Introduced In: 9.7

Creates the S3 bucket configuration of an SVM.

Important notes

- Each SVM can have one or more bucket configurations.
- Aggregate lists should be specified explicitly. If not specified, then the bucket is auto-provisioned as a FlexGroup.
- Constituents per aggregate specifies the number of components (or FlexVols) per aggregate. Is specified only when an aggregate list is explicitly defined.
- An access policy can be created when a bucket is created.
- "qos_policy" can be specified if a bucket needs to be attached to a QoS group policy during creation time.
- "audit_event_selector" can be specified if a bucket needs to be specify access and permission type for auditing.

Required properties

- svm.uuid Existing SVM in which to create the bucket configuration.
- name Bucket name that is to be created.

Recommended optional properties

- aggregates List of aggregates for the FlexGroup on which the bucket is hosted on.
- constituents per aggregate Number of constituents per aggregate.
- size Specifying the bucket size is recommended.
- policy Specifying policy enables users to perform operations on buckets. Hence specifying the resource permissions is recommended.
- qos_policy A QoS policy for buckets.
- audit event selector Audit policy for buckets.
- versioning state Versioning state for buckets.
- type Type of bucket.
- nas path The NAS path to which the NAS bucket corresponds to.
- lifecycle management Object store server lifecycle management policy.

Default property values

- size 800MB
- comment ""
- aggregates No default value.
- constituents per aggregate 4, if an aggregates list is specified. Otherwise, no default value.
- policy.statements.actions GetObject, PutObject, DeleteObject, ListBucket, ListBucketMultipartUploads, ListMultipartUploadParts, GetObjectTagging, PutObjectTagging, DeleteObjectTagging, GetBucketVersioning, PutBucketVersioning.
- policy.statements.principals all S3 users and groups in the SVM.
- policy.statements.resources all objects in the bucket.
- policy.statements.conditions list of bucket policy conditions.
- qos-policy No default value.
- versioning state disabled.
- type S3.

Related ONTAP commands

- vserver object-store-server bucket create
- vserver object-store-server bucket policy statement create

- vserver object-store-server bucket policy-statement-condition create
- vserver object-store-server bucket lifecycle-management-rule create

Learn more

• DOC /protocols/s3/services/{svm.uuid}/buckets

Parameters

| Name | Туре | 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. • Default value: 1 • Max value: 120 • Min value: 0 |
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. • Default value: |

| Name | Туре | In | Required | Description |
|----------|--------|------|----------|---|
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Request Body

| Name | Туре | Description |
|----------------------------|----------------------|--|
| aggregates | array[aggregates] | A list of aggregates for FlexGroup volume constituents where the bucket is hosted. If this option is not specified, the bucket is autoprovisioned as a FlexGroup volume. |
| audit_event_selector | audit_event_selector | Event selector allows you to specify access and permission types to audit. |
| comment | string | Can contain any additional information about the bucket being created or modified. |
| constituents_per_aggregate | integer | Specifies the number of constituents or FlexVol volumes per aggregate. A FlexGroup volume consisting of all such constituents across all specified aggregates is created. This option is used along with the aggregates option and cannot be used independently. |
| encryption | encryption | |
| lifecycle_management | lifecycle_management | Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects. |
| logical_used_size | integer | Specifies the bucket logical used size up to this point. |

| Name | Type Description | |
|-------------------|-------------------|---|
| 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 "-". |
| nas_path | string | Specifies the NAS path to which the nas bucket corresponds to. |
| policy | policy | A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied. |
| protection_status | protection_status | Specifies attributes of bucket protection. |
| qos_policy | qos_policy | Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps " or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps" . Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre- created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached. |
| role | string | Specifies the role of the bucket. |

| Name | Туре | Description |
|-----------------------|---------|--|
| size | integer | Specifies the bucket size in bytes; ranges from 80MB to 64TB. |
| storage_service_level | string | Specifies the storage service level of the FlexGroup volume on which the bucket should be created. Valid values are "value", "performance" or "extreme". |
| svm | svm | |
| type | string | Specifies the bucket type. Valid values are "s3"and "nas". |
| uuid | string | Specifies the unique identifier of the bucket. |
| versioning_state | string | Specifies the versioning state of the bucket. Valid values are "disabled", "enabled" or "suspended". Note that the versioning state cannot be modified to 'disabled' from any other state. |
| volume | volume | Specifies the FlexGroup volume name and UUID where the bucket is hosted. |

```
"aggregates": {
  " links": {
   "self": {
     "href": "/api/resourcelink"
  },
  "name": "aggr1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"audit_event_selector": {
 "access": "read",
 "permission": "deny"
},
"comment": "S3 bucket.",
"constituents per aggregate": 4,
"lifecycle management": {
  "rules": {
    " links": {
     "self": {
       "href": "/api/resourcelink"
     }
    "abort incomplete multipart upload": {
     " links": {
        "self": {
         "href": "/api/resourcelink"
        }
      }
    },
    "expiration": {
     " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      }
    "non current version expiration": {
     " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      }
```

```
"object filter": {
      " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      },
      "prefix": "/logs",
      "size greater than": 10485760,
      "size less than": 10240,
      "tags": [
       "project1=projA",
       "project2=projB"
     1
 }
"logical used size": 0,
"name": "bucket1",
"nas path": "/",
"policy": {
  "statements": {
    "actions": [
     "GetObject",
     "PutObject",
      "DeleteObject",
     "ListBucket"
    "conditions": {
      "delimiters": [
       "/"
      ],
      "max keys": [
       1000
      "operator": "ip_address",
      "prefixes": [
       "pref"
      ],
      "source ips": [
       "1.1.1.1",
       "1.2.2.0/24"
      ],
      "usernames": [
      "user1"
     ]
    },
```

```
"effect": "allow",
    "principals": [
      "user1",
     "group/grp1"
    ],
    "resources": [
      "bucket1",
     "bucket1/*"
    "sid": "FullAccessToUser1"
  }
},
"qos policy": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
  "max throughput iops": 10000,
  "max throughput mbps": 500,
  "min throughput iops": 2000,
  "min throughput mbps": 500,
  "name": "performance",
 "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"role": "standalone",
"size": 1677721600,
"storage service level": "value",
"svm": {
  " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
  "name": "svm1",
 "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"type": "s3",
"uuid": "414b29a1-3b26-11e9-bd58-0050568ea055",
"versioning state": "enabled",
"volume": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
```

```
"name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
}
```

Response

```
Status: 202, Accepted
```

| Name | Туре | Description |
|------|----------|-------------|
| job | job_link | |

Example response

Headers

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

Error

```
Status: Default
```

ONTAP Error Response Codes

| Error code | Message |
|------------|--|
| 92405777 | "Failed to create bucket "{bucket name}" for SVM "{svm.name}". Reason: {Reason of failure}. "; |

| Error code | Message |
|------------|--|
| 92405785 | "Bucket name "{bucket name}" contains invalid characters. Valid characters for a bucket name are 0-9, a-z, ".", and "-". "; |
| 92405786 | "Bucket name "{bucket name}" is not valid. Bucket names must have between 3 and 63 characters. "; |
| 92405811 | "Failed to create bucket "{bucket name}" for SVM "{svm.name}". Wait a few minutes and try the operation again."; |
| 92405812 | "Failed to create the object store volume. Reason: {Reason for failure}."; |
| 92405819 | "Cannot provision an object store server volume for bucket "{bucket name}" in SVM "{svm.name}" on the following aggregates because they are SnapLock aggregates: {List of aggregates.name}."; |
| 92405820 | "Failed to check whether the aggregate "{aggregates.name}" is a FabricPool. Reason: {Reason for failure}."; |
| 92405821 | "Cannot provision an object store server volume for bucket "{bucket name}" in SVM "{svm.name}" on the following aggregates because they are FabricPool: {List of aggregates.name}."; |
| 92405827 | "Internal Error. Unable to generate object store volume name."; |
| 92405857 | "One or more aggregates must be specified if "constituents_per_aggregate" is specified."; |
| 92405858 | "Failed to "create" the "bucket" because the operation is only supported on data SVMs."; |
| 92405859 | "The specified "aggregates.uuid" "{aggregates.uuid}" does not exist."; |
| 92405860 | "The specified "aggregates.name" "{aggregates.name}" and "aggregates.uuid" "{aggregates.uuid}" refer to different aggregates."; |
| 92405861 | "The specified SVM UUID or bucket UUID does not exist."; |
| 92405863 | "An error occurs when creating an access policy. The reason for failure is detailed in the error message."; |
| 92405891 | The resources specified in the access policy are not valid. Valid ways to specify a resource are *, <bucket-name>, <bucket-name>// Valid characters for a resource are 0-9, A-Z, a-z, _, +, comma, ;, :, =, ., &, @,?, (,), single quote, *, !, - and \$.</bucket-name></bucket-name> |
| 92405894 | "Statements, principals and resources list can have a maximum of 10 entries."; |

| Error code | Message |
|------------|--|
| 92405897 | The principals specified in the access policy are not in the correct format. User name must be in between 1 and 64 characters. Valid characters for a user name are 0-9, A-Z, a-z, _, +, =, comma, ., @, and |
| 92405898 | "The SID specified in the access policy is not valid. Valid characters for a SID are 0-9, A-Z and a-z."; |

| Name | Туре | 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 | Туре | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Туре | Description |
|------|------|-------------|
| self | href | |

aggregates

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

audit_event_selector

Event selector allows you to specify access and permission types to audit.

| Name | Туре | Description |
|------------|--------|--|
| access | string | Specifies read and write access types. |
| permission | string | Specifies allow and deny permission types. |

encryption

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

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket.

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

| Name | Туре | Description |
|-----------------------|---------|--|
| after_initiation_days | integer | Number of days of initiation after which uploads can be aborted. |

expiration

Specifies a way to perform expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|------------------------------|---------|---|
| _links | _links | |
| expired_object_delete_marker | boolean | Cleanup object delete markers. |
| object_age_days | integer | Number of days since creation after which objects can be deleted. |
| object_expiry_date | string | Specific date from when objects can expire. |

non_current_version_expiration

Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|--------------------------|---------|---|
| _links | _links | |
| new_non_current_versions | integer | Number of latest non-current versions to be retained. |
| non_current_days | integer | Number of days after which non- current versions can be deleted. |

object_filter

Specifies a way to filter objects within a bucket.

| Name | Туре | Description |
|-------------------|---------|--|
| _links | _links | |
| prefix | string | A prefix that is matched against object-names within a bucket. |
| size_greater_than | integer | Size of the object greater than specified for which the corresponding lifecycle rule is to be applied. |

| Name | Туре | Description |
|----------------|---------------|--|
| size_less_than | integer | Size of the object smaller than specified for which the corresponding lifecycle rule is to be applied. |
| tags | array[string] | An array of key-value paired tags of the form <tag>or <tag=value>.</tag> |

rules

Information about the lifecycle management rule of a bucket.

| Name | Туре | Description |
|---------------------------------------|------------------------------------|---|
| _links | _links | |
| abort_incomplete_multipart_uploa d | abort_incomplete_multipart_uploa d | Specifies a way to perform abort_incomplete_multipart_uplo ad action on filtered objects within a bucket. |
| enabled | boolean | Specifies whether or not the associated rule is enabled. |
| expiration | expiration | Specifies a way to perform expiration action on filtered objects within a bucket. |
| name | string | Bucket lifecycle management rule identifier. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket. |
| object_filter | object_filter | Specifies a way to filter objects within a bucket. |

lifecycle_management

Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects.

| Name | Туре | Description |
|-------|------|--|
| rules | | Specifies an object store lifecycle management policy. |

s3_bucket_policy_condition

Information about policy conditions based on various condition operators and condition keys.

| Name | Туре | Description |
|------------|----------------|--|
| delimiters | array[string] | An array of delimiters that are compared with the delimiter value specified at the time of execution of an S3-based command, using the condition operator specified. |
| max_keys | array[integer] | An array of maximum keys that are allowed or denied to be retrieved using an S3 list operation, based on the condition operator specified. |
| operator | string | Condition operator that is applied to the specified condition key. |
| prefixes | array[string] | An array of prefixes that are compared with the input prefix value specified at the time of execution of an S3-based command, using the condition operator specified. |
| source_ips | array[string] | An array of IP address ranges that are compared with the IP address of a source command at the time of execution of an S3-based command, using the condition operator specified. |
| usernames | array[string] | An array of usernames that a current user in the context is evaluated against using the condition operators. |

s3_bucket_policy_statement

Specifies information about a single access permission.

| Name | Туре | Description |
|------------|-----------------------------------|--|
| actions | array[string] | |
| conditions | array[s3_bucket_policy_condition] | Specifies bucket policy conditions. |
| effect | string | Specifies whether access is allowed or denied when a user requests the specific action. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access. |
| principals | array[string] | |
| resources | array[string] | |
| sid | string | Specifies the statement identifier used to differentiate between statements. |

policy

A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied.

| Name | Туре | Description |
|------------|------------------------------------|---|
| statements | array[s3_bucket_policy_statemen t] | Specifies bucket access policy statement. |

destination

| Name | Туре | Description |
|-------------------|---------|--|
| is_cloud | boolean | Specifies whether a bucket is protected within the Cloud. |
| is_external_cloud | boolean | Specifies whether a bucket is protected on external Cloud providers. |

| Name | Туре | Description |
|----------|---------|---|
| is_ontap | boolean | Specifies whether a bucket is protected within ONTAP. |
| | | Default value: 1 |
| | | • readOnly: 1 |
| | | • Introduced in: 9.10 |
| | | x-nullable: true |
| | | |

protection status

Specifies attributes of bucket protection.

| Name | Туре | Description |
|--------------|-------------|--|
| destination | destination | |
| is_protected | boolean | Specifies whether a bucket is a source and if it is protected within ONTAP and/or an external cloud. • Default value: 1 • readOnly: 1 • Introduced in: 9.10 • x-nullable: true |

qos_policy

Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached.

| Name | Туре | Description |
|---------------------|---------|--|
| _links | _links | |
| max_throughput_iops | integer | Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |

| Name | Туре | Description |
|---------------------|---------|---|
| max_throughput_mbps | integer | Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_iops | integer | Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_mbps | integer | Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| name | string | The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH. |
| uuid | string | The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH. |

svm

| Name | Туре | 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 | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

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

s3_bucket_svm

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 | Туре | Description |
|----------------------------|----------------------|--|
| aggregates | array[aggregates] | A list of aggregates for FlexGroup volume constituents where the bucket is hosted. If this option is not specified, the bucket is autoprovisioned as a FlexGroup volume. |
| audit_event_selector | audit_event_selector | Event selector allows you to specify access and permission types to audit. |
| comment | string | Can contain any additional information about the bucket being created or modified. |
| constituents_per_aggregate | integer | Specifies the number of constituents or FlexVol volumes per aggregate. A FlexGroup volume consisting of all such constituents across all specified aggregates is created. This option is used along with the aggregates option and cannot be used independently. |
| encryption | encryption | |

| Name | Туре | Description |
|----------------------|----------------------|--|
| lifecycle_management | lifecycle_management | Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects. |
| 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 "-". |
| nas_path | string | Specifies the NAS path to which the nas bucket corresponds to. |
| policy | policy | A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied. |
| protection_status | protection_status | Specifies attributes of bucket protection. |

| Name | Туре | Description |
|-----------------------|------------|--|
| qos_policy | qos_policy | Specifes "qos_policy.max_throughput_iops " and/or "qos_policy.max_throughput_mb ps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbp s". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached. |
| role | string | Specifies the role of the bucket. |
| size | integer | Specifies the bucket size in bytes; ranges from 80MB to 64TB. |
| storage_service_level | string | Specifies the storage service level of the FlexGroup volume on which the bucket should be created. Valid values are "value", "performance" or "extreme". |
| svm | svm | |
| type | string | Specifies the bucket type. Valid values are "s3"and "nas". |
| uuid | string | Specifies the unique identifier of the bucket. |
| versioning_state | string | Specifies the versioning state of the bucket. Valid values are "disabled", "enabled" or "suspended". Note that the versioning state cannot be modified to 'disabled' from any other state. |

| Name | Туре | Description |
|--------|--------|--|
| volume | volume | Specifies the FlexGroup volume name and UUID where the bucket is hosted. |

job_link

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

error_arguments

| Name | Туре | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Туре | 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 configuration for an SVM

DELETE /protocols/s3/services/{svm.uuid}/buckets/{uuid}

Introduced In: 9.7

Deletes the S3 bucket configuration of an SVM. An access policy is also deleted on an S3 bucket "delete" command.

Related ONTAP commands

- vserver object-store-server bucket delete
- vserver object-store-server bucket policy statement delete
- vserver object-store-server bucket policy-statement-condition delete
- vserver object-store-server bucket lifecycle-management-rule delete

Learn more

• DOC /protocols/s3/services/{svm.uuid}/buckets

Parameters

| Name | Туре | In | Required | Description |
|----------------|---------|-------|----------|--|
| uuid | string | path | True | The unique identifier of the bucket. |
| 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. • Default value: 1 • Max value: 120 • Min value: 0 |

| Name | Туре | In | Required | Description |
|----------|--------|------|----------|---|
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Response

Status: 202, Accepted

| Name | Туре | Description |
|------|----------|-------------|
| job | job_link | |

Example response

Error

```
Status: Default
```

ONTAP Error Response Codes

| Error code | Message |
|------------|--|
| 92405811 | "Failed to delete bucket "{bucket name}" for SVM "{svm.name}". Wait a few minutes and try the operation again."; |
| 92405858 | "Failed to "delete" the "bucket" because the operation is only supported on data SVMs."; |
| 92405861 | "The specified SVM UUID or bucket UUID does not exist."; |

| Error code | Message |
|------------|---|
| 92405779 | "Failed to remove bucket "{bucket name}" for SVM "{svm.name}". Reason: {Reason for failure}. "; |
| 92405813 | "Failed to delete the object store volume. Reason: {Reason for failure}."; |
| 92405864 | "An error occurred when deleting an access policy. The reason for failure is detailed in the error message."; |

| Name | Туре | Description |
|-------|-------|-------------|
| error | error | |

Example error

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

Definitions

See Definitions

| n | rat |
|---|-----|
| | |

| Name | Туре | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Туре | Description |
|------|------|-------------|
| self | href | |

job_link

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

error_arguments

| Name | Туре | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Туре | 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 an S3 bucket for an SVM

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

Introduced In: 9.7

Retrieves the S3 bucket configuration of an SVM. Note that in order to retrieve S3 bucket policy conditions, the 'fields' option should be set to '**'.

Related ONTAP commands

- vserver object-store-server bucket show
- vserver object-store-server bucket policy statement show
- vserver object-store-server bucket policy-statement-condition show
- vserver object-store-server bucket lifecycle-management-rule show

Learn more

• DOC /protocols/s3/services/{svm.uuid}/buckets

Parameters

| Name | Туре | In | Required | Description |
|----------|---------------|-------|----------|---|
| uuid | string | path | True | The unique identifier of the bucket. |
| 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 | Туре | Description |
|----------------------|----------------------|--|
| aggregates | array[aggregates] | A list of aggregates for FlexGroup volume constituents where the bucket is hosted. If this option is not specified, the bucket is autoprovisioned as a FlexGroup volume. |
| audit_event_selector | audit_event_selector | Event selector allows you to specify access and permission types to audit. |

| Name | Туре | Description |
|----------------------------|----------------------|--|
| comment | string | Can contain any additional information about the bucket being created or modified. |
| constituents_per_aggregate | integer | Specifies the number of constituents or FlexVol volumes per aggregate. A FlexGroup volume consisting of all such constituents across all specified aggregates is created. This option is used along with the aggregates option and cannot be used independently. |
| encryption | encryption | |
| lifecycle_management | lifecycle_management | Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects. |
| 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 "-". |
| nas_path | string | Specifies the NAS path to which the nas bucket corresponds to. |
| policy | policy | A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied. |

| Name | Туре | Description |
|-----------------------|-------------------|---|
| protection_status | protection_status | Specifies attributes of bucket protection. |
| qos_policy | qos_policy | Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps " or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps" . Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre- created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached. |
| role | string | Specifies the role of the bucket. |
| size | integer | Specifies the bucket size in bytes; ranges from 80MB to 64TB. |
| storage_service_level | string | Specifies the storage service level of the FlexGroup volume on which the bucket should be created. Valid values are "value", "performance" or "extreme". |
| svm | svm | |
| type | string | Specifies the bucket type. Valid values are "s3"and "nas". |
| uuid | string | Specifies the unique identifier of the bucket. |
| versioning_state | string | Specifies the versioning state of the bucket. Valid values are "disabled", "enabled" or "suspended". Note that the versioning state cannot be modified to 'disabled' from any other state. |

| Name | Туре | Description |
|--------|--------|--|
| volume | volume | Specifies the FlexGroup volume name and UUID where the bucket is hosted. |

```
"aggregates": {
  " links": {
    "self": {
     "href": "/api/resourcelink"
  },
  "name": "aggr1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"audit_event_selector": {
 "access": "read",
 "permission": "deny"
},
"comment": "S3 bucket.",
"constituents per aggregate": 4,
"lifecycle management": {
  "rules": {
    " links": {
     "self": {
       "href": "/api/resourcelink"
     }
    "abort incomplete multipart upload": {
     " links": {
        "self": {
         "href": "/api/resourcelink"
        }
      }
    },
    "expiration": {
     " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      }
    "non current version expiration": {
     " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      }
```

```
"object filter": {
      " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      },
      "prefix": "/logs",
      "size greater than": 10485760,
      "size less than": 10240,
      "tags": [
       "project1=projA",
       "project2=projB"
     1
 }
"logical used size": 0,
"name": "bucket1",
"nas path": "/",
"policy": {
  "statements": {
    "actions": [
     "GetObject",
     "PutObject",
      "DeleteObject",
     "ListBucket"
    "conditions": {
      "delimiters": [
       "/"
      ],
      "max keys": [
       1000
      "operator": "ip_address",
      "prefixes": [
       "pref"
      ],
      "source ips": [
       "1.1.1.1",
       "1.2.2.0/24"
      ],
      "usernames": [
      "user1"
     ]
    },
```

```
"effect": "allow",
    "principals": [
      "user1",
     "group/grp1"
    ],
    "resources": [
      "bucket1",
     "bucket1/*"
    "sid": "FullAccessToUser1"
  }
},
"qos policy": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
  },
  "max throughput iops": 10000,
  "max throughput mbps": 500,
  "min throughput iops": 2000,
  "min throughput mbps": 500,
  "name": "performance",
 "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"role": "standalone",
"size": 1677721600,
"storage service level": "value",
"svm": {
  " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
  "name": "svm1",
 "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"type": "s3",
"uuid": "414b29a1-3b26-11e9-bd58-0050568ea055",
"versioning state": "enabled",
"volume": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
```

```
"name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
}
```

Error

```
Status: Default, Error
```

| Name | Туре | 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 | Туре | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Туре | Description |
|------|------|-------------|
| self | href | |

aggregates

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

audit_event_selector

Event selector allows you to specify access and permission types to audit.

| Name | Туре | Description |
|------------|--------|--|
| access | string | Specifies read and write access types. |
| permission | string | Specifies allow and deny permission types. |

encryption

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

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket.

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

| Name | Туре | Description |
|-----------------------|---------|--|
| after_initiation_days | integer | Number of days of initiation after which uploads can be aborted. |

expiration

Specifies a way to perform expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|------------------------------|---------|---|
| _links | _links | |
| expired_object_delete_marker | boolean | Cleanup object delete markers. |
| object_age_days | integer | Number of days since creation after which objects can be deleted. |
| object_expiry_date | string | Specific date from when objects can expire. |

non_current_version_expiration

Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|--------------------------|---------|---|
| _links | _links | |
| new_non_current_versions | integer | Number of latest non-current versions to be retained. |
| non_current_days | integer | Number of days after which non- current versions can be deleted. |

object_filter

Specifies a way to filter objects within a bucket.

| Name | Туре | Description |
|-------------------|---------|--|
| _links | _links | |
| prefix | string | A prefix that is matched against object-names within a bucket. |
| size_greater_than | integer | Size of the object greater than specified for which the corresponding lifecycle rule is to be applied. |

| Name | Туре | Description |
|----------------|---------------|--|
| size_less_than | integer | Size of the object smaller than specified for which the corresponding lifecycle rule is to be applied. |
| tags | array[string] | An array of key-value paired tags of the form <tag>or <tag=value>.</tag> |

rules

Information about the lifecycle management rule of a bucket.

| Name | Туре | Description |
|------------------------------------|------------------------------------|---|
| _links | _links | |
| abort_incomplete_multipart_uploa d | abort_incomplete_multipart_uploa d | Specifies a way to perform abort_incomplete_multipart_uplo ad action on filtered objects within a bucket. |
| enabled | boolean | Specifies whether or not the associated rule is enabled. |
| expiration | expiration | Specifies a way to perform expiration action on filtered objects within a bucket. |
| name | string | Bucket lifecycle management rule identifier. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket. |
| object_filter | object_filter | Specifies a way to filter objects within a bucket. |

lifecycle_management

Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects.

| Name | Туре | Description |
|-------|------|--|
| rules | | Specifies an object store lifecycle management policy. |

s3_bucket_policy_condition

Information about policy conditions based on various condition operators and condition keys.

| Name | Туре | Description |
|------------|----------------|--|
| delimiters | array[string] | An array of delimiters that are compared with the delimiter value specified at the time of execution of an S3-based command, using the condition operator specified. |
| max_keys | array[integer] | An array of maximum keys that are allowed or denied to be retrieved using an S3 list operation, based on the condition operator specified. |
| operator | string | Condition operator that is applied to the specified condition key. |
| prefixes | array[string] | An array of prefixes that are compared with the input prefix value specified at the time of execution of an S3-based command, using the condition operator specified. |
| source_ips | array[string] | An array of IP address ranges that are compared with the IP address of a source command at the time of execution of an S3-based command, using the condition operator specified. |
| usernames | array[string] | An array of usernames that a current user in the context is evaluated against using the condition operators. |

s3_bucket_policy_statement

Specifies information about a single access permission.

| Name | Туре | Description |
|------------|-----------------------------------|--|
| actions | array[string] | |
| conditions | array[s3_bucket_policy_condition] | Specifies bucket policy conditions. |
| effect | string | Specifies whether access is allowed or denied when a user requests the specific action. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access. |
| principals | array[string] | |
| resources | array[string] | |
| sid | string | Specifies the statement identifier used to differentiate between statements. |

policy

A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied.

| Name | Туре | Description |
|------------|------------------------------------|---|
| statements | array[s3_bucket_policy_statemen t] | Specifies bucket access policy statement. |

destination

| Name | Туре | Description |
|-------------------|---------|--|
| is_cloud | boolean | Specifies whether a bucket is protected within the Cloud. |
| is_external_cloud | boolean | Specifies whether a bucket is protected on external Cloud providers. |

| Name | Туре | Description |
|----------|---------|---|
| is_ontap | boolean | Specifies whether a bucket is protected within ONTAP. |
| | | Default value: 1 |
| | | • readOnly: 1 |
| | | • Introduced in: 9.10 |
| | | x-nullable: true |
| | | |

protection status

Specifies attributes of bucket protection.

| Name | Туре | Description |
|--------------|-------------|--|
| destination | destination | |
| is_protected | boolean | Specifies whether a bucket is a source and if it is protected within ONTAP and/or an external cloud. • Default value: 1 • readOnly: 1 • Introduced in: 9.10 • x-nullable: true |

qos_policy

Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached.

| Name | Туре | Description |
|---------------------|---------|--|
| _links | _links | |
| max_throughput_iops | integer | Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |

| Name | Туре | Description |
|---------------------|---------|---|
| max_throughput_mbps | integer | Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_iops | integer | Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_mbps | integer | Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| name | string | The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH. |
| uuid | string | The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH. |

svm

| Name | Туре | 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 | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

| Name | Туре | Description |
|------|--------|---|
| name | string | The name of the volume. |
| uuid | string | Unique identifier for the volume. This corresponds to the instance- uid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. • example: 028baa66-41bd- 11e9-81d5-00a0986138f7 • Introduced in: 9.6 • x-nullable: true |

error_arguments

| Name | Туре | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Туре | 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 an S3 bucket configuration for an SVM

PATCH /protocols/s3/services/{svm.uuid}/buckets/{uuid}

Introduced In: 9.7

Updates the S3 bucket configuration of an SVM.

Important notes

• The following fields can be modified for a bucket:

- ° comment Any information related to the bucket.
- ° size Bucket size.
- o policy An access policy for resources (buckets and objects) that defines their permissions. New policies are created after existing policies are deleted. To retain any of the existing policy statements, you need to specify those statements again. Policy conditions can also be modified using this API.
- ° qos policy A QoS policy for buckets.
- ° audit_event_selector Audit policy for buckets. None can be specified for both access and permission to remove audit event selector.
- ° versioning state Versioning state for buckets.
- ° nas path NAS path to which the NAS bucket corresponds to.

Related ONTAP commands

- vserver object-store-server bucket modify
- * vserver object-store-server bucket policy statement modify
- vserver object-store-server bucket policy-statement-condition modify

Learn more

• DOC /protocols/s3/services/{svm.uuid}/buckets

Parameters

| Name | Туре | In | Required | Description |
|------|--------|------|----------|--------------------------------------|
| uuid | string | path | True | The unique identifier of the bucket. |

| Name | Туре | 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. • Default value: 1 • Max value: 120 • Min value: 0 |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Request Body

| Name | Туре | Description |
|------------|-------------------|--|
| aggregates | array[aggregates] | A list of aggregates for FlexGroup volume constituents where the bucket is hosted. If this option is not specified, the bucket is autoprovisioned as a FlexGroup volume. |

| Name | Туре | Description |
|----------------------------|----------------------|--|
| audit_event_selector | audit_event_selector | Event selector allows you to specify access and permission types to audit. |
| comment | string | Can contain any additional information about the bucket being created or modified. |
| constituents_per_aggregate | integer | Specifies the number of constituents or FlexVol volumes per aggregate. A FlexGroup volume consisting of all such constituents across all specified aggregates is created. This option is used along with the aggregates option and cannot be used independently. |
| encryption | encryption | |
| lifecycle_management | lifecycle_management | Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects. |
| 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 "-". |
| nas_path | string | Specifies the NAS path to which the nas bucket corresponds to. |

| Name | Туре | Description |
|-----------------------|-------------------|---|
| policy | policy | A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied. |
| protection_status | protection_status | Specifies attributes of bucket protection. |
| qos_policy | qos_policy | Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps " or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps" . Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre- created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached. |
| role | string | Specifies the role of the bucket. |
| size | integer | Specifies the bucket size in bytes; ranges from 80MB to 64TB. |
| storage_service_level | string | Specifies the storage service level of the FlexGroup volume on which the bucket should be created. Valid values are "value", "performance" or "extreme". |
| svm | svm | |

| Name | Туре | Description |
|------------------|--------|--|
| type | string | Specifies the bucket type. Valid values are "s3"and "nas". |
| uuid | string | Specifies the unique identifier of the bucket. |
| versioning_state | string | Specifies the versioning state of the bucket. Valid values are "disabled", "enabled" or "suspended". Note that the versioning state cannot be modified to 'disabled' from any other state. |
| volume | volume | Specifies the FlexGroup volume name and UUID where the bucket is hosted. |

```
"aggregates": {
  " links": {
   "self": {
     "href": "/api/resourcelink"
  },
  "name": "aggr1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"audit_event_selector": {
 "access": "read",
 "permission": "deny"
},
"comment": "S3 bucket.",
"constituents per aggregate": 4,
"lifecycle management": {
  "rules": {
    " links": {
     "self": {
       "href": "/api/resourcelink"
     }
    "abort incomplete multipart upload": {
     " links": {
        "self": {
         "href": "/api/resourcelink"
        }
      }
    },
    "expiration": {
     " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      }
    "non current version expiration": {
     " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      }
```

```
"object filter": {
      " links": {
       "self": {
         "href": "/api/resourcelink"
       }
      },
      "prefix": "/logs",
      "size greater than": 10485760,
      "size less than": 10240,
      "tags": [
       "project1=projA",
       "project2=projB"
     1
 }
"logical used size": 0,
"name": "bucket1",
"nas path": "/",
"policy": {
  "statements": {
    "actions": [
     "GetObject",
     "PutObject",
      "DeleteObject",
     "ListBucket"
    "conditions": {
      "delimiters": [
       "/"
      ],
      "max keys": [
       1000
      "operator": "ip_address",
      "prefixes": [
       "pref"
      ],
      "source ips": [
       "1.1.1.1",
       "1.2.2.0/24"
      ],
      "usernames": [
      "user1"
     ]
    },
```

```
"effect": "allow",
    "principals": [
      "user1",
     "group/grp1"
    ],
    "resources": [
      "bucket1",
     "bucket1/*"
    "sid": "FullAccessToUser1"
  }
},
"qos policy": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
  "max throughput iops": 10000,
  "max throughput mbps": 500,
  "min throughput iops": 2000,
  "min throughput mbps": 500,
  "name": "performance",
 "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"role": "standalone",
"size": 1677721600,
"storage service level": "value",
"svm": {
  " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
  "name": "svm1",
 "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"type": "s3",
"uuid": "414b29a1-3b26-11e9-bd58-0050568ea055",
"versioning state": "enabled",
"volume": {
 " links": {
   "self": {
     "href": "/api/resourcelink"
   }
  },
```

```
"name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
}
```

Response

```
Status: 202, Accepted
```

| Name | Туре | Description |
|------|----------|-------------|
| job | job_link | |

Example response

Error

```
Status: Default
```

ONTAP Error Response Codes

| Error code | Message |
|------------|--|
| 92405778 | "Failed to modify bucket "{bucket name}" for SVM "{svm.name}". Reason: {Reason for failure}. "; |
| 92405846 | "Failed to modify the object store volume. Reason: {Reason for failure}."; |
| 92405811 | "Failed to modify bucket "{bucket name}" for SVM "{svm.name}". Wait a few minutes and try the operation again."; |

| Error code | Message |
|------------|--|
| 92405858 | "Failed to "modify" the "bucket" because the operation is only supported on data SVMs."; |
| 92405861 | "The specified SVM UUID or bucket UUID does not exist."; |
| 92405863 | "An error occurs when creating an access policy. The reason for failure is detailed in the error message."; |
| 92405864 | "An error occurs when deleting an access policy. The reason for failure is detailed in the error message."; |
| 92405891 | The resources specified in the access policy are not valid. Valid ways to specify a resource are *, <bucket-name>, <bucket-name>// Valid characters for a resource are 0-9, A-Z, a-z, _, +, comma, ;, :, =, ., &, @,?, (,), single quote, *, !, - and \$.</bucket-name></bucket-name> |
| 92405894 | "Statements, principals and resources list can have a maximum of 10 entries."; |
| 92405897 | The principals specified in the access policy are not in the correct format. User name must be in between 1 and 64 characters. Valid characters for a user name are 0-9, A-Z, a-z, _, +, =, comma, ., @, and |
| 92405898 | "The SID specified in the access policy is not valid. Valid characters for a SID are 0-9, A-Z and a-z."; |

| Name | Туре | 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 | Туре | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Туре | Description |
|------|------|-------------|
| self | href | |

aggregates

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

audit_event_selector

Event selector allows you to specify access and permission types to audit.

| Name | Туре | Description |
|------------|--------|--|
| access | string | Specifies read and write access types. |
| permission | string | Specifies allow and deny permission types. |

encryption

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

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket.

| Name | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

| Name | Туре | Description |
|-----------------------|---------|--|
| after_initiation_days | integer | Number of days of initiation after which uploads can be aborted. |

expiration

Specifies a way to perform expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|------------------------------|---------|---|
| _links | _links | |
| expired_object_delete_marker | boolean | Cleanup object delete markers. |
| object_age_days | integer | Number of days since creation after which objects can be deleted. |
| object_expiry_date | string | Specific date from when objects can expire. |

non_current_version_expiration

Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket.

| Name | Туре | Description |
|--------------------------|---------|---|
| _links | _links | |
| new_non_current_versions | integer | Number of latest non-current versions to be retained. |
| non_current_days | integer | Number of days after which non- current versions can be deleted. |

object_filter

Specifies a way to filter objects within a bucket.

| Name | Туре | Description |
|-------------------|---------|--|
| _links | _links | |
| prefix | string | A prefix that is matched against object-names within a bucket. |
| size_greater_than | integer | Size of the object greater than specified for which the corresponding lifecycle rule is to be applied. |

| Name | Туре | Description |
|----------------|---------------|--|
| size_less_than | integer | Size of the object smaller than specified for which the corresponding lifecycle rule is to be applied. |
| tags | array[string] | An array of key-value paired tags of the form <tag>or <tag=value>.</tag> |

rules

Information about the lifecycle management rule of a bucket.

| Name | Туре | Description |
|------------------------------------|------------------------------------|---|
| _links | _links | |
| abort_incomplete_multipart_uploa d | abort_incomplete_multipart_uploa d | Specifies a way to perform abort_incomplete_multipart_uplo ad action on filtered objects within a bucket. |
| enabled | boolean | Specifies whether or not the associated rule is enabled. |
| expiration | expiration | Specifies a way to perform expiration action on filtered objects within a bucket. |
| name | string | Bucket lifecycle management rule identifier. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket. |
| object_filter | object_filter | Specifies a way to filter objects within a bucket. |

lifecycle_management

Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects.

| Name | Туре | Description |
|-------|--------------|--|
| rules | array[rules] | Specifies an object store lifecycle management policy. |

s3_bucket_policy_condition

Information about policy conditions based on various condition operators and condition keys.

| Name | Туре | Description |
|------------|----------------|--|
| delimiters | array[string] | An array of delimiters that are compared with the delimiter value specified at the time of execution of an S3-based command, using the condition operator specified. |
| max_keys | array[integer] | An array of maximum keys that are allowed or denied to be retrieved using an S3 list operation, based on the condition operator specified. |
| operator | string | Condition operator that is applied to the specified condition key. |
| prefixes | array[string] | An array of prefixes that are compared with the input prefix value specified at the time of execution of an S3-based command, using the condition operator specified. |
| source_ips | array[string] | An array of IP address ranges that are compared with the IP address of a source command at the time of execution of an S3-based command, using the condition operator specified. |
| usernames | array[string] | An array of usernames that a current user in the context is evaluated against using the condition operators. |

s3_bucket_policy_statement

Specifies information about a single access permission.

| Name | Туре | Description |
|------------|-----------------------------------|--|
| actions | array[string] | |
| conditions | array[s3_bucket_policy_condition] | Specifies bucket policy conditions. |
| effect | string | Specifies whether access is allowed or denied when a user requests the specific action. If access (to allow) is not granted explicitly to a resource, access is implicitly denied. Access can also be denied explicitly to a resource, in order to make sure that a user cannot access it, even if a different policy grants access. |
| principals | array[string] | |
| resources | array[string] | |
| sid | string | Specifies the statement identifier used to differentiate between statements. |

policy

A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied.

| Name | Туре | Description |
|------------|------------------------------------|---|
| statements | array[s3_bucket_policy_statemen t] | Specifies bucket access policy statement. |

destination

| Name | Туре | Description |
|-------------------|---------|--|
| is_cloud | boolean | Specifies whether a bucket is protected within the Cloud. |
| is_external_cloud | boolean | Specifies whether a bucket is protected on external Cloud providers. |

| Name | Туре | Description |
|----------|---------|---|
| is_ontap | boolean | Specifies whether a bucket is protected within ONTAP. |
| | | Default value: 1 |
| | | • readOnly: 1 |
| | | • Introduced in: 9.10 |
| | | x-nullable: true |
| | | |

protection status

Specifies attributes of bucket protection.

| Name | Туре | Description |
|--------------|-------------|--|
| destination | destination | |
| is_protected | boolean | Specifies whether a bucket is a source and if it is protected within ONTAP and/or an external cloud. • Default value: 1 • readOnly: 1 • Introduced in: 9.10 • x-nullable: true |

qos_policy

Specifes "qos_policy.max_throughput_iops" and/or "qos_policy.max_throughput_mbps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbps". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached.

| Name | Туре | Description |
|---------------------|---------|--|
| _links | _links | |
| max_throughput_iops | integer | Specifies the maximum throughput in IOPS, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |

| Name | Туре | Description |
|---------------------|---------|---|
| max_throughput_mbps | integer | Specifies the maximum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_iops | integer | Specifies the minimum throughput in IOPS, 0 means none. Setting "min_throughput" is supported on AFF platforms only, unless FabricPool tiering policies are set. This is mutually exclusive with name and UUID during POST and PATCH. |
| min_throughput_mbps | integer | Specifies the minimum throughput in Megabytes per sec, 0 means none. This is mutually exclusive with name and UUID during POST and PATCH. |
| name | string | The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH. |
| uuid | string | The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH. |

svm

| Name | Туре | 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 | Туре | Description |
|--------|--------|-------------|
| _links | _links | |

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

s3_bucket_svm

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 | Туре | Description |
|----------------------------|----------------------|--|
| aggregates | array[aggregates] | A list of aggregates for FlexGroup volume constituents where the bucket is hosted. If this option is not specified, the bucket is autoprovisioned as a FlexGroup volume. |
| audit_event_selector | audit_event_selector | Event selector allows you to specify access and permission types to audit. |
| comment | string | Can contain any additional information about the bucket being created or modified. |
| constituents_per_aggregate | integer | Specifies the number of constituents or FlexVol volumes per aggregate. A FlexGroup volume consisting of all such constituents across all specified aggregates is created. This option is used along with the aggregates option and cannot be used independently. |
| encryption | encryption | |

| Name | Туре | Description |
|----------------------|----------------------|--|
| lifecycle_management | lifecycle_management | Lifecycle management is implemented as an object associated with a bucket. It defines rules to be applied against objects within a bucket. These rules are applied in the background and can delete objects. |
| 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 "-". |
| nas_path | string | Specifies the NAS path to which the nas bucket corresponds to. |
| policy | policy | A policy is an object associated with a bucket. It defines resource (bucket, folder, or object) permissions. These policies get evaluated when an S3 user makes a request by executing a specific command. The user must be part of the principal (user or group) specified in the policy. Permissions in the policies determine whether the request is allowed or denied. |
| protection_status | protection_status | Specifies attributes of bucket protection. |

| Name | Туре | Description |
|-----------------------|------------|---|
| qos_policy | qos_policy | Specifes "qos_policy.max_throughput_iops " and/or "qos_policy.max_throughput_mb ps" or "qos_policy.min_throughput_iops" and/or "qos_policy.min_throughput_mbp s". Specifying "min_throughput_iops" or "min_throughput_mbps" is only supported on volumes hosted on a node that is flash optimized. A pre-created QoS policy can also be used by specifying "qos_policy.name" or "qos_policy.uuid" properties. Setting or assigning a QoS policy to a bucket is not supported if its containing volume or SVM already has a QoS policy attached. |
| role | string | Specifies the role of the bucket. |
| size | integer | Specifies the bucket size in bytes; ranges from 80MB to 64TB. |
| storage_service_level | string | Specifies the storage service level of the FlexGroup volume on which the bucket should be created. Valid values are "value", "performance" or "extreme". |
| svm | svm | |
| type | string | Specifies the bucket type. Valid values are "s3"and "nas". |
| uuid | string | Specifies the unique identifier of the bucket. |
| versioning_state | string | Specifies the versioning state of the bucket. Valid values are "disabled", "enabled" or "suspended". Note that the versioning state cannot be modified to 'disabled' from any other state. |

| Name | Туре | Description |
|--------|------|--|
| volume | | Specifies the FlexGroup volume name and UUID where the bucket is hosted. |

job_link

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

error_arguments

| Name | Туре | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Туре | 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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