



Manage S3 bucket lifecycle management rules

REST API reference

NetApp
February 11, 2026

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi/protocols_s3_services_svm.uuid_buckets_s3_bucket.uuid_rules_endpoint_overview.html on February 11, 2026. Always check docs.netapp.com for the latest.

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Manage S3 bucket lifecycle management rules

Manage S3 bucket lifecycle management rules

Overview

An S3 bucket lifecycle management rule is a list of objects. Each rule defines a set of actions to be performed on the object within the bucket.

Adding a lifecycle management rule on a S3 bucket under an SVM

```

# The API:
/api/protocols/s3/services/{svm.uuid}/buckets/{uuid}/rules

# The call:
curl -iku admin:<password> -X POST "https://<mgmt-
ip>/api/protocols/s3/services/259b4e78-2893-67ea-9785-
890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules?return_timeout=0&return_records=true" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"name\":
\"rule1\", \"expiration\" : { \"object_age_days\" : \"1000\" },
\"abort_incomplete_multipart_upload\" : { \"after_initiation_days\" : 200
} , \"object_filter\": { \"prefix\" : \"obj1*/\" , \"size_greater_than\"
: \"1000\" } }"

# The response:
HTTP/1.1 202 Accepted
Date: Fri, 30 November 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/259b4e78-2893-67ea-9785-
890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules?name=bucket-4
Content-Length: 353
Content-Type: application/json
{
  "job": {
    "uuid": "2e880171-7e16-11e9-bfdc-0050568ea123",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea123"
      }
    }
  }
}

```

Updating a lifecycle management rule on a S3 bucket under an SVM

```
# The call:
curl -iku admin:<password> -X PATCH "https://<mgmt-
ip>/api/protocols/s3/services/259b4e78-2893-67ea-9785-
890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules/rule1?return_timeout=0&return_records=true" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"expiration\"
: { \"object_age_days\" : \"3000\" },
\"abort_incomplete_multipart_upload\" : { \"after_initiation_days\" :
\"5000\" } }"

# The response:
HTTP/1.1 202 Accepted
Date: Fri, 30 November 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/259b4e78-2893-67ea-9785-
890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules?name=bucket-4
Content-Length: 353
Content-Type: application/json
{
  "job": {
    "uuid": "2e880171-7e16-11e9-bfdc-0050568ea124",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea124"
      }
    }
  }
}
```

Deleting a lifecycle management rule on a S3 bucket under an SVM

```
# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/s3/services/259b4e78-2893-
67ea-9785-890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules/rule1" -H "accept: application/json"
```

To delete an action within a rule, pass null inside the action-object.

```
# The call:
curl -iku admin:<password> -X PATCH "https://<mgmt-
ip>/api/protocols/s3/services/259b4e78-2893-67ea-9785-
890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules/rule1?return_timeout=0&return_records=true" -H "accept:
application/json" -H "Content-Type: application/json" -d '{"expiration\
: null }'"

# The response:
HTTP/1.1 202 Accepted
Date: Fri, 30 November 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/259b4e78-2893-67ea-9785-
890456bbbec4/buckets/259b4e46-2893-67ea-9145-
909456bbbec4/rules?name=bucket-4
Content-Length: 353
Content-Type: application/json
{
  "job": {
    "uuid": "2e880171-7e16-11e9-bfdc-0050568ea124",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/2e880171-7e16-11e9-bfdc-0050568ea124"
      }
    }
  }
}
```

Retrieve S3 lifecycle rules for a bucket

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

Introduced In: 9.13

Retrieves all S3 Lifecycle rules associated with a bucket. Note that in order to retrieve S3 bucket rule parameters, the 'fields' option should be set to '**'.

Related ONTAP commands

- `vserver object-store-server bucket lifecycle-management-rule show`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|---|---------|-------|----------|--|
| bucket_name | string | query | False | Filter by bucket_name <ul style="list-style-type: none"> • maxLength: 63 • minLength: 3 • Introduced in: 9.14 |
| non_current_version_expiration.non_current_days | integer | query | False | Filter by non_current_version_expiration.non_current_days |
| non_current_version_expiration.new_non_current_versions | integer | query | False | Filter by non_current_version_expiration.new_non_current_versions |
| uuid | string | query | False | Filter by uuid <ul style="list-style-type: none"> • Introduced in: 9.14 |
| expiration.expired_object_delete_marker | boolean | query | False | Filter by expiration.expired_object_delete_marker |
| expiration.object_expiry_date | string | query | False | Filter by expiration.object_expiry_date |
| expiration.object_age_days | integer | query | False | Filter by expiration.object_age_days |
| name | string | query | False | Filter by name <ul style="list-style-type: none"> • maxLength: 256 • minLength: 0 |
| svm.name | string | query | False | Filter by svm.name <ul style="list-style-type: none"> • Introduced in: 9.14 |

| Name | Type | In | Required | Description |
|---|---------------|-------|----------|---|
| object_filter.prefix | string | query | False | Filter by object_filter.prefix |
| object_filter.size_greater_than | integer | query | False | Filter by object_filter.size_greater_than |
| object_filter.size_less_than | integer | query | False | Filter by object_filter.size_less_than |
| object_filter.tags | string | query | False | Filter by object_filter.tags |
| enabled | boolean | query | False | Filter by enabled |
| abort_incomplete_multipart_upload.after_initiation_days | integer | query | False | Filter by abort_incomplete_multipart_upload.after_initiation_days |
| s3_bucket.uuid | string | path | True | The unique identifier of the bucket. |
| svm.uuid | string | path | True | <p>UUID of the SVM to which this object belongs.</p> <ul style="list-style-type: none"> Introduced in: 9.14 |
| 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 | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.</p> <ul style="list-style-type: none"> • Default value: 15 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|---|-------------------|
| _links | collection_links | |
| num_records | integer | Number of records |
| records | array[s3_bucket_lifecycle_rule] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "abort_incomplete_multipart_upload": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      },
      "bucket_name": "bucket1",
      "expiration": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      },
      "object_age_days": 100,
      "object_expiry_date": "2039-09-23 00:00:00 +0000"
    },
    {
      "name": "string",
      "non_current_version_expiration": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      },
      "object_filter": {
        "_links": {
```

```

        "self": {
            "href": "/api/resourcelink"
        },
        "prefix": "/logs",
        "size_greater_than": 10240,
        "size_less_than": 10485760,
        "tags": [
            "project1=projA",
            "project2=projB"
        ],
        "svm": {
            "_links": {
                "self": {
                    "href": "/api/resourcelink"
                }
            },
            "name": "svm1",
            "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
        },
        "uuid": "414b29a1-3b26-11e9-bd58-0050568ea055"
    }
}

```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

collection_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags.

| Name | Type | 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 | Type | 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. This cannot be used along with object_expiry_date. |
| object_expiry_date | string | Specific date from when objects can expire. This cannot be used with object_age_days. |

non_current_version_expiration

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

| Name | Type | 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 | Type | 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. |
| 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}. |

svm

Specifies the name of the SVM where this bucket exists.

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

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

s3_bucket_lifecycle_rule

Information about the lifecycle management rule of a bucket.

| Name | Type | Description |
|-----------------------------------|---|--|
| _links | _links | |
| abort_incomplete_multipart_upload | abort_incomplete_multipart_upload | Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags. |
| bucket_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 "-". |
| 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. The length of the name can range from 0 to 256 characters. |
| 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. |
| svm | svm | Specifies the name of the SVM where this bucket exists. |

| Name | Type | Description |
|------|--------|--|
| uuid | string | Specifies the unique identifier of the bucket. |

error_arguments

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

returned_error

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

Create the S3 bucket lifecycle rule configuration

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

Introduced In: 9.13

Creates the S3 bucket lifecycle rule configuration.

Required properties

- `name` - Lifecycle Management rule to be created.
- `expiration` and/or `non_current_version_expiration` and/or `abort_incomplete_multipart_upload`
 - Lifecycle Management actions associated with the lifecycle rule.

Recommended optional properties

- `enabled` - Lifecycle Management rule is enabled or not.
- `object_filter.prefix` - Lifecycle Management rule filter prefix.

- `object_filter.tags` - Lifecycle Management rule filter tags.
- `object_filter.size_greater_than` - Lifecycle Management rule filter minimum object size.
- `object_filter.size_less_than` - Lifecycle Management rule filter maximum object size.
- `object_age_days` - Number of days since creation after which objects can be deleted.
- `object_expiry_date` - Specific date from when objects can expire.
- `expired_object_delete_marker` - Cleanup object delete markers.
- `new_non_current_versions` - Number of latest non-current versions to be retained.
- `non_current_days` - Number of days after which non-current versions can be deleted.
- `after_initiation_days` - Number of days of initiation after which uploads can be aborted.

Related ONTAP commands

- `vserver object-store-server bucket lifecycle-management-rule create`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|-----------------------------|--------|------|----------|--------------------------------|
| <code>s3_bucket.uuid</code> | string | path | True | Unique identifier of a bucket. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 0 • Max value: 120 • Min value: 0 |
| return_records | boolean | query | False | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value: |
| svm.uuid | string | path | True | <p>UUID of the SVM to which this object belongs.</p> <ul style="list-style-type: none"> • Introduced in: 9.14 |

Request Body

| Name | Type | Description |
|-----------------------------------|---|--|
| abort_incomplete_multipart_upload | abort_incomplete_multipart_upload | Specifies a way to perform <code>abort_incomplete_multipart_upload</code> action on filtered objects within a bucket. It cannot be specified with tags. |
| bucket_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 "-". |
| 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. The length of the name can range from 0 to 256 characters. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform <code>non_current_version_expiration</code> action on filtered objects within a bucket. |
| object_filter | object_filter | Specifies a way to filter objects within a bucket. |
| svm | svm | Specifies the name of the SVM where this bucket exists. |
| uuid | string | Specifies the unique identifier of the bucket. |

Example request

```
{
  "bucket_name": "bucket1",
  "expiration": {
    "object_age_days": 100,
    "object_expiry_date": "2039-09-23 00:00:00 +0000"
  },
  "name": "string",
  "object_filter": {
    "prefix": "/logs",
    "size_greater_than": 10240,
    "size_less_than": 10485760,
    "tags": [
      "project1=projA",
      "project2=projB"
    ]
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "414b29a1-3b26-11e9-bd58-0050568ea055"
}
```

Response

Status: 202, Accepted

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

Example response

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

Headers

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

Response

Status: 201, Created

Error

Status: Default

ONTAP Error Response Codes

| Error code | Message |
|------------|--|
| 92405861 | "The specified SVM UUID or bucket UUID does not exist."; |
| 92406111 | "Lifecycle Management rule "rule1" for bucket "testbuck1" in SVM "vs0" is invalid because of the number of tags specified. The maximum number of tags supported is four."; |
| 92406113 | "Lifecycle Management rule for bucket in Vserver is invalid because there is a mismatch in one of the filter-field. Filters must be the same for a particular rule identifier."; |
| 92406114 | "The Expiration action requires specifying either object_expiry_date, object_age_days or expired_object_delete_marker."; |
| 92406115 | "The NonCurrentVersionExpiration action requires either new_non_current_versions or non_current_days."; |
| 92406116 | "The AbortIncompleteMultipartUpload action requires after_initiation_days."; |
| 92406117 | "The "Expiration" action cannot have both an expiry date and an age."; |
| 92406118 | "Using Lifecycle Management rules requires an effective cluster version of 9.13.1 ."; |
| 92406120 | "The "AbortIncompleteMultipartUpload" action cannot be specified with tags."; |
| 92406121 | ""expired_object_delete_marker" cannot be specified with "tags"." |

| Error code | Message |
|------------|---|
| 92406122 | ""expired_object_delete_marker" cannot be specified with "object_age_days" or "object_expiry_date"."; |
| 92406123 | "Expiration is supported on object store volumes only, bucket "testbuck-nas" on SVM "vs0" is not an object store volume."; |
| 92406126 | "Lifecycle Management rule "rule1" for bucket "testbuck1" in SVM "vs0" is invalid because specified tags contain one or more invalid characters. Valid characters for a tag are 0-9, A-Z, a-z, "+", "-", "=", ".", "_", ":", "/", "@", and " ". Each "=" character present in a tag key or value must be prefixed with the "" escape character."; |
| 92406127 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" is invalid because specified tag "key" length is greater than the maximum allowed length: 128."; |
| 92406128 | "Lifecycle Management rule "rule1" for bucket "testbuck1" in SVM "vs0" has tags with duplicate keys. Verify that each tag has a unique key and then try the operation again."; |
| 92406129 | "Lifecycle Management rule "rule1" for bucket "testbuck1" in SVM "vs0" has a prefix that is too long. The maximum length of the prefix is 1024 characters."; |
| 92406130 | "Lifecycle Management rule "rule1" for bucket "testbuck1" in SVM "vs0" is invalid because the minimum object size of 10485760 is larger than or equal to the maximum object size of 10240."; |
| 92406131 | "Lifecycle Management rule "testcheck2" for bucket "testbuck1" in SVM "vs0" cannot be created because "non_current_days" must be specified along with "new_non_current_versions"."; |
| 92406132 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" requires "object_age_days" to be greater than zero."; |
| 92406132 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" requires "new_non_current_versions" to be greater than zero."; |
| 92406132 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" requires "after_initiation_days" to be greater than zero."; |
| 92406133 | "Lifecycle Management rule for bucket in Vserver is invalid. The object_expiry_date must be later than January 1, 1970."; |

| Error code | Message |
|------------|--|
| 92406134 | "Cannot exceed the max limit of 1000 Lifecycle Management rules per bucket."; |
| 92406135 | "MetroCluster is configured on cluster. Object Expiration is not supported in a MetroCluster configuration."; |
| 92406136 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" is invalid. The "object_expiry_date" must be at midnight GMT."; |
| 92406139 | "Lifecycle Management rule for bucket in Vserver with action is a stale entry. Contact technical support for assistance."; |
| 92406141 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" with action "Expiration" cannot have "expired_object_delete_marker" disabled. To disable "expired_object_delete_marker", run the "vserver object-store-server bucket lifecycle-management-rule delete" command."; |
| 92406143 | "As part of Bucket Lifecycle, cannot create fabriclink relationship on bucket "{bucket name}" in SVM "{SVM name}". Reason : {error}."; |
| 92406144 | "The "AbortIncompleteMultipartUpload" action cannot be specified with object size."; |
| 92406150 | ""expired_object_delete_marker" cannot be specified with "size_less_than"."; |
| 92406148 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" cannot have "new_non_current_versions" more than 100."; |
| 92406149 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" requires an action to be specified. Retry the operation after adding an action."; |

Definitions

See Definitions

href

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

_links

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags.

| Name | Type | 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 | Type | Description |
|------------------------------|---------|--|
| expired_object_delete_marker | boolean | Cleanup object delete markers. |
| object_age_days | integer | Number of days since creation after which objects can be deleted. This cannot be used along with object_expiry_date. |
| object_expiry_date | string | Specific date from when objects can expire. This cannot be used with object_age_days. |

non_current_version_expiration

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

| Name | Type | Description |
|--------------------------|---------|---|
| 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 | Type | Description |
|-------------------|---------------|--|
| 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. |
| 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}. |

svm

Specifies the name of the SVM where this bucket exists.

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

s3_bucket_lifecycle_rule

Information about the lifecycle management rule of a bucket.

| Name | Type | Description |
|-----------------------------------|---|--|
| abort_incomplete_multipart_upload | abort_incomplete_multipart_upload | Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags. |

| Name | Type | Description |
|--------------------------------|--|--|
| bucket_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 "-". |
| 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. The length of the name can range from 0 to 256 characters. |
| 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. |
| svm | svm | Specifies the name of the SVM where this bucket exists. |
| uuid | string | Specifies the unique identifier of the bucket. |

job_link

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

error_arguments

| Name | Type | Description |
|------|--------|---------------|
| code | string | Argument code |

| Name | Type | Description |
|---------|--------|------------------|
| message | string | Message argument |

returned_error

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

Delete an S3 bucket lifecycle rule

```
DELETE /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/rules/{name}
```

Introduced In: 9.13

Deletes the S3 bucket lifecycle rule configuration.

Related ONTAP commands

- `vserver object-store-server bucket lifecycle-management-rule delete`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|--|
| s3_bucket.uuid | string | path | True | The unique identifier of the bucket. |
| name | string | path | True | The unique identifier of the bucket lifecycle_management rule. |

| Name | Type | In | Required | Description |
|----------|--------|------|----------|---|
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. <ul style="list-style-type: none"> Introduced in: 9.14 |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error code | Message |
|------------|--|
| 92405861 | "The specified SVM UUID or bucket UUID does not exist."; |
| 92406139 | "Lifecycle Management rule for bucket in Vserver with action is a stale entry. Contact technical support for assistance."; |

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

Example error

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

Definitions

See Definitions

error_arguments

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

returned_error

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

Retrieve all S3 lifecycle rules for a bucket

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

Introduced In: 9.13

Retrieves all S3 Lifecycle rules associated with a bucket. Note that in order to retrieve S3 bucket rule parameters, the 'fields' option should be set to '**'.

Related ONTAP commands

- `vserver object-store-server bucket lifecycle-management-rule show`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| s3_bucket.uuid | string | path | True | The unique identifier of the bucket. |
| name | string | path | True | The name of the lifecycle management rule to be applied on the bucket. |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. <ul style="list-style-type: none">• Introduced in: 9.14 |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

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

| Name | Type | Description |
|-----------------------------------|---|--|
| abort_incomplete_multipart_upload | abort_incomplete_multipart_upload | Specifies a way to perform <code>abort_incomplete_multipart_upload</code> action on filtered objects within a bucket. It cannot be specified with tags. |
| bucket_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 "-". |
| 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. The length of the name can range from 0 to 256 characters. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform <code>non_current_version_expiration</code> action on filtered objects within a bucket. |
| object_filter | object_filter | Specifies a way to filter objects within a bucket. |
| svm | svm | Specifies the name of the SVM where this bucket exists. |
| uuid | string | Specifies the unique identifier of the bucket. |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "abort_incomplete_multipart_upload": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "bucket_name": "bucket1",
  "expiration": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "object_age_days": 100,
  "object_expiry_date": "2039-09-23 00:00:00 +0000",
  "name": "string",
  "non_current_version_expiration": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "object_filter": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "prefix": "/logs",
  "size_greater_than": 10240,
  "size_less_than": 10485760,
  "tags": [
    "project1=projA",
    "project2=projB"
  ]
}
```

```

    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "uuid": "414b29a1-3b26-11e9-bd58-0050568ea055"
  }
}

```

Error

Status: Default, Error

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

Example error

```

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

```

Definitions

See Definitions

href

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

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags.

| Name | Type | 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 | Type | 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. This cannot be used along with object_expiry_date. |
| object_expiry_date | string | Specific date from when objects can expire. This cannot be used with object_age_days. |

non_current_version_expiration

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

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

| Name | Type | Description |
|--------------------------|---------|---|
| 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 | Type | 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. |
| 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}. |

svm

Specifies the name of the SVM where this bucket exists.

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

error_arguments

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

returned_error

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

Update the S3 bucket lifecycle rule configuration

PATCH /protocols/s3/services/{svm.uuid}/buckets/{s3_bucket.uuid}/rules/{name}

Introduced In: 9.13

Updates the S3 bucket lifecycle rule configuration.

Important notes

- The following fields can be modified for a bucket:
- `actions` - Lifecycle Management actions associated with the rule.
- `enabled` - Lifecycle Management rule is enabled or not..
- `object_age_days` - Number of days since creation after which objects can be deleted.
- `object_expiry_date` - Specific date from when objects can expire.
- `expired_object_delete_marker` - Cleanup object delete markers.
- `new_non_current_versions` - Number of latest non-current versions to be retained.
- `non_current_days` - Number of days after which non-current versions can be deleted.
- `after_initiation_days` - Number of days of initiation after which uploads can be aborted.

Related ONTAP commands

- `vserver object-store-server bucket lifecycle-management-rule modify`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| s3_bucket.uuid | string | path | True | The unique identifier of the bucket. |
| name | string | path | True | The name of the lifecycle management rule to be applied on the bucket. |
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none">• Default value: 0• Max value: 120• Min value: 0 |

| Name | Type | In | Required | Description |
|----------|--------|------|----------|--|
| svm.uuid | string | path | True | <p>UUID of the SVM to which this object belongs.</p> <ul style="list-style-type: none"> Introduced in: 9.14 |

Request Body

| Name | Type | Description |
|-----------------------------------|---|---|
| abort_incomplete_multipart_upload | abort_incomplete_multipart_upload | Specifies a way to perform <code>abort_incomplete_multipart_upload</code> action on filtered objects within a bucket. It cannot be specified with tags. |
| 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. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform <code>non_current_version_expiration</code> action on filtered objects within a bucket. |
| svm | svm | Specifies the name of the SVM where this bucket exists. |
| uuid | string | Specifies the unique identifier of the bucket. |

Example request

```
{
  "expiration": {
    "object_age_days": 100,
    "object_expiry_date": "2039-09-23 00:00:00 +0000"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "414b29a1-3b26-11e9-bd58-0050568ea055"
}
```

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|---------------------------------|-------------------|
| num_records | integer | Number of records |
| records | array[s3_bucket_lifecycle_rule] | |

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "expiration": {
        "object_age_days": 100,
        "object_expiry_date": "2039-09-23 00:00:00 +0000"
      },
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "uuid": "414b29a1-3b26-11e9-bd58-0050568ea055"
    }
  ]
}
```

Response

Status: 202, Accepted

Error

Status: Default

ONTAP Error Response Codes

| Error code | Message |
|------------|--|
| 92405861 | "The specified SVM UUID or bucket UUID does not exist."; |
| 92406114 | "The Expiration action requires specifying either object_expiry_date, object_age_days or expired_object_delete_marker."; |
| 92406115 | "The NonCurrentVersionExpiration action requires either new_non_current_versions or non_current_days."; |
| 92406116 | "The AbortIncompleteMultipartUpload action requires after_initiation_days."; |

| Error code | Message |
|------------|--|
| 92406117 | "The "Expiration" action cannot have both an expiry date and an age."; |
| 92406118 | "Using Lifecycle Management rules requires an effective cluster version of 9.13.1 ."; |
| 92406122 | ""expired_object_delete_marker" cannot be specified with "object_age_days" or "object_expiry_date"."; |
| 92406131 | "Lifecycle Management rule "testcheck2" for bucket "testbuck1" in SVM "vs0" cannot be created because "non_current_days" must be specified along with "new_non_current_versions"."; |
| 92406132 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" requires "object_age_days" to be greater than zero."; |
| 92406132 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" requires "new_non_current_versions" to be greater than zero."; |
| 92406132 | "Lifecycle Management rule "{rule}" for bucket "{bucket}" in SVM "{SVM}" requires "after_initiation_days" to be greater than zero."; |
| 92406133 | "Lifecycle Management rule for bucket in Vserver is invalid. The object_expiry_date must be later than January 1, 1970."; |
| 92406135 | "MetroCluster is configured on cluster. Object Expiration is not supported in a MetroCluster configuration."; |
| 92406136 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" is invalid. The "object_expiry_date" must be at midnight GMT."; |
| 92406139 | "Lifecycle Management rule for bucket in Vserver with action is a stale entry. Contact technical support for assistance."; |
| 92406142 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" with action "Expiration" cannot have "expired_object_delete_marker" disabled. To disable "expired_object_delete_marker", run the "vserver object-store-server bucket lifecycle-management-rule delete" command."; |
| 92406146 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" already exists. Delete the rule and then try the operation again."; |
| 92406148 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" cannot have "new_non_current_versions" more than 100."; |

| Error code | Message |
|------------|--|
| 92406149 | "Lifecycle Management rule "rule1" for bucket "buck1" in SVM "vs0" requires an action to be specified. Retry the operation after adding an action."; |

Definitions

See Definitions

href

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

_links

abort_incomplete_multipart_upload

Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags.

| Name | Type | 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 | Type | Description |
|------------------------------|---------|--|
| expired_object_delete_marker | boolean | Cleanup object delete markers. |
| object_age_days | integer | Number of days since creation after which objects can be deleted. This cannot be used along with object_expiry_date. |
| object_expiry_date | string | Specific date from when objects can expire. This cannot be used with object_age_days. |

non_current_version_expiration

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

| Name | Type | Description |
|--------------------------|---------|---|
| 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 | Type | Description |
|-------------------|---------------|--|
| 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. |
| 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}. |

svm

Specifies the name of the SVM where this bucket exists.

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

s3_bucket_lifecycle_rule

Information about the lifecycle management rule of a bucket.

| Name | Type | Description |
|-----------------------------------|---|--|
| abort_incomplete_multipart_upload | abort_incomplete_multipart_upload | Specifies a way to perform abort_incomplete_multipart_upload action on filtered objects within a bucket. It cannot be specified with tags. |
| enabled | boolean | Specifies whether or not the associated rule is enabled. |

| Name | Type | Description |
|--------------------------------|--|---|
| expiration | expiration | Specifies a way to perform expiration action on filtered objects within a bucket. |
| non_current_version_expiration | non_current_version_expiration | Specifies a way to perform non_current_version_expiration action on filtered objects within a bucket. |
| svm | svm | Specifies the name of the SVM where this bucket exists. |
| uuid | string | Specifies the unique identifier of the bucket. |

collection_links

error_arguments

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

returned_error

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

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