



SnapLock

ONTAP 9.8 REST API reference

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Table of Contents

- SnapLock 1
 - SnapLock overview 1
 - Manage SnapLock audit logs 2
 - Manage the SnapLock ComplianceClock 41
 - Manage event based retention operations 49
 - Manage event based retention policies 75
 - View key information about files and volumes 102
 - Manage SnapLock file retention time 125
 - Manage SnapLock storage litigations 139
 - View litigation ID files 162
 - Manage legal-hold operations 166

SnapLock

SnapLock overview

SnapLock is an alternative to the traditional optical "write once, read many" (WORM) data. SnapLock is used for the storage of read-only WORM data. SnapLock is a license-based, disk-based, open-protocol feature that works with application software to administer non-rewritable storage of data. The primary objective of this feature is to provide storage-enforced WORM and retention functionality. SnapLock can be deployed for protecting data in strict regulatory environments in such a way that even the storage administrator is considered an untrusted party. SnapLock provides special purpose volumes in which files can be stored and committed to a non-erasable, non-rewritable state either forever or for a designated retention period. SnapLock allows this retention to be performed at the granularity of individual files. These APIs allow you to manage the following endpoints:

- SnapLock log
- SnapLock compliance-clock
- SnapLock event-retention
- SnapLock file retention
- SnapLock privileged-delete
- SnapLock file fingerprint
- SnapLock legal-hold

APIs

SnapLock log

These APIs are used to create and initialize the SnapLock log configuration for an SVM, modify attributes associated with the SnapLock log configuration, and delete the auditlog configuration.

SnapLock compliance-clock

This API manages the ComplianceClock of the system. ComplianceClock determines the expiry time of the SnapLock objects in the system. ComplianceClock can be initialized only once by the user and once it is set, it cannot be changed or altered by the user.

SnapLock event-retention

This API is used to create Event Based Retention (EBR) policies for an SVM. A policy consists of a policy-name and a retention-period. Only a user with security login role vsadmin-snaplock is allowed to perform this operation.

SnapLock file retention

This API is used to set the retention time of a file. Retention time expects the date in ISO 8601 format or "infinite".

SnapLock privileged-delete

This API is used to perform a privileged-delete operation on unexpired WORM files on a SnapLock Enterprise volume. The only built-in role that has access to the command is "vsadmin-snaplock".

SnapLock file fingerprint

This API is used to start the fingerprint computation on a file.

SnapLock legal-hold

This API is used to retain Compliance-mode WORM files for the duration of a litigation. A file under a Legal-Hold behaves like a WORM file with an indefinite retention period. Only a user with security login role vsadmin-snaplock is allowed to perform the operation.

Manage SnapLock audit logs

Storage SnapLock audit-logs endpoint overview

The SnapLock log volume can be a SnapLock Compliance volume or SnapLock Enterprise volume. The SnapLock log infrastructure creates directories and files in this volume to store the SnapLock log records. The maximum log size specifies the maximum size of a log file that stores SnapLock log records. When the file reaches this size, the log infrastructure archives it and creates a new log file. The default retention period is the length of time the log file is retained, if the SnapLock log records that are stored in the file do not carry any retention period.

Examples

1. Verifies that the audit log is configured for the specified SVM:

```
GET "/api/storage/snaplock/audit-logs/?svm.name=VS0"
```

1. Verifies that the specified volume is an audit log volume:

```
GET "/api/storage/snaplock/audit-logs/?log_volume.volume.name=VS0_ALOG"
```

Examples

1. Creates a SnapLock log configuration by providing SVM name:

```
POST "/api/storage/snaplock/audit-logs" '{"svm": {"name": "VS3"},  
"log_volume": { "volume": { "name": "VS3_ALOG"}, "max_log_size": "20971520",  
"retention_period": "P30Y" } }'
```

1. Creates a SnapLock log configuration by providing SVM UUID:

```
POST "/api/storage/snaplock/audit-logs" '{"svm": {"uuid": "bc744cc7-296d-  
11e9-a26f-0050568e5b05"}, "log_volume": { "volume": { "name": "VS3_ALOG"},  
"max_log_size": "20971520", "retention_period": "P30Y" } }'
```

1. Creates a SnapLock log configuration without specifying a retention period:

```
POST "/api/storage/snaplock/audit-logs" '{"svm": {"name": "VS3"},
"log_volume": {"volume": {"name": "VS3_ALOG"}}}'
```

Examples

1. Updates the audit log volume:

```
PATCH "/api/storage/snaplock/audit-logs/bc744cc7-296d-11e9-a26f-
0050568e5b05" '{"log_volume":{"volume":{"name": "VS4_ALOG_NEW"}}}'
```

1. Updates the maximum size of the log file and the retention period:

```
PATCH "/api/storage/snaplock/audit-logs/420cac7a-296a-11e9-a26f-
0050568e5b05" '{"log_volume":{"max_log_size": "20971520",
"retention_period": "P1Y"}}'
```

1. Archives all of the audit log files:

```
PATCH "/api/storage/snaplock/audit-logs/c7e4fa7d-2968-11e9-a26f-
0050568e5b05" '{"log_archive":{"archive": "true"}}'
```

1. Archives the specified audit log file:

```
PATCH "/api/storage/snaplock/audit-logs/c7e4fa7d-2968-11e9-a26f-
0050568e5b05"
'{"log_archive":{"archive": "true", "base_name": "privileged_delete"}}'
```

Retrieve SVMs configured with audit log volumes

GET /storage/snaplock/audit-logs

Introduced In: 9.7

Retrieves a list of SVMs configured with audit log volumes.

Related ONTAP commands

- `snaplock log show`

Learn more

- [DOC /storage/snaplock/audit-logs](#)

Parameters

| Name | Type | In | Required | Description |
|-----------------------------|---------|-------|----------|---------------------------------------|
| log_volume.retention_period | string | query | False | Filter by log_volume.retention_period |
| log_volume.volume.uuid | string | query | False | Filter by log_volume.volume.uuid |
| log_volume.volume.name | string | query | False | Filter by log_volume.volume.name |
| log_volume.max_log_size | integer | query | False | Filter by log_volume.max_log_size |
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| log_files.base_name | string | query | False | Filter by log_files.base_name |
| log_files.expiry_time | string | query | False | Filter by log_files.expiry_time |
| log_files.path | string | query | False | Filter by log_files.path |
| log_files.size | integer | query | False | Filter by log_files.size |
| log_archive.base_name | string | query | False | Filter by log_archive.base_name |
| log_archive.expiry_time | string | query | False | Filter by log_archive.expiry_time |
| log_archive.path | string | query | False | Filter by log_archive.path |

| Name | Type | In | Required | Description |
|------------------|---------------|-------|----------|--|
| log_archive.size | integer | query | False | Filter by log_archive.size |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| 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: 1 • Max value: 120 • Min value: 0 |
| 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 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

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

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

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "log_archive": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "base_name": "legal_hold",
      "expiry_time": "2058-06-04T19:00:00Z",
      "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
      "size": "20000"
    },
    "log_files": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "base_name": "legal_hold",
      "expiry_time": "2058-06-04T19:00:00Z",
      "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
      "size": "20000"
    },
    "log_volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    },
    "max_log_size": "20971520",
  }
}
```

```

    "retention_period": "P30M",
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}

```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

_links

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

log_archive

| Name | Type | Description |
|-------------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

snaplock_log_file

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

| Name | Type | Description |
|-------------|---------|---|
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

snaplock_log_volume

| Name | Type | Description |
|--------------|------------------------|-----------------------------------|
| _links | _links | |
| max_log_size | integer | Maximum size of log file in bytes |

| Name | Type | Description |
|------------------|--------|---|
| retention_period | string | Specifies the default log record retention period. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours, minutes and seconds. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. A duration in hours, minutes and seconds is represented by "PT<num>H", "PT<num>M", and "PT<num>S" respectively. The period string must contain only a single time element i.e. either years, months, days, hours, minutes or seconds. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the string "infinite".</num></num></num></num></num></num> |
| volume | volume | |

svm

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

snaplock_log

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

| Name | Type | Description |
|------------|--|-------------|
| log_files | array[snaplock_log_file] | |
| log_volume | snaplock_log_volume | |
| svm | svm | |

error_arguments

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

error

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

Create a SnapLock log configuration for an SVM

POST /storage/snaplock/audit-logs

Introduced In: 9.7

Creates a SnapLock log configuration for an SVM. A SnapLock log configuration consists of a volume to store the log, the maximum size of the log file, and the default period of time for which the log file should be retained. The input parameter `retention_period` expects the duration in ISO 8601 format.

Required properties

- `svm.uuid` or `svm.name` - Name or UUID of the SVM.
- `log_volume.volume.name` or `log_volume.volume.uuid` - Name or UUID of audit log volume.

Recommended optional properties

- `log_volume.max_log_size` - Max log file size.
- `log_volume.volume.retention_period` - Retention period of log file.

Default property values

If not specified in POST, the following default property values are assigned:

- `log_volume.retention_period` - *P6M*
- `log_volume.max_log_size` - *10MB*

Related ONTAP commands

- `snaplock log create`

Learn more

- [DOC /storage/snaplock/audit-logs](#)

Parameters

| 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: 1• Max value: 120• Min value: 0 |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|---|
| 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: |

Request Body

| Name | Type | Description |
|-------------|--|-------------|
| _links | _links | |
| log_archive | log_archive | |
| log_files | array[snaplock_log_file] | |
| log_volume | snaplock_log_volume | |
| svm | svm | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "log_archive": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_name": "legal_hold",
    "expiry_time": "2058-06-04T19:00:00Z",
    "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
    "size": "20000"
  },
  "log_files": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_name": "legal_hold",
    "expiry_time": "2058-06-04T19:00:00Z",
    "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
    "size": "20000"
  },
  "log_volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "max_log_size": "20971520",
    "retention_period": "P30M",
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
}
```

```

    }
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}

```

Response

Status: 202, Accepted

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

Example response

```

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

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090340 | {field} is a required field |
| 14090343 | Invalid Field |
| 14090346 | Internal Error. Wait a few minutes, then try the command again |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

log_archive

| Name | Type | Description |
|-------------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

snaplock_log_file

| Name | Type | Description |
|-----------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |

| Name | Type | Description |
|-------------|---------|---|
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

snaplock_log_volume

| Name | Type | Description |
|--------------|------------------------|-----------------------------------|
| _links | _links | |
| max_log_size | integer | Maximum size of log file in bytes |

| Name | Type | Description |
|------------------|--------|---|
| retention_period | string | Specifies the default log record retention period. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours, minutes and seconds. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. A duration in hours, minutes and seconds is represented by "PT<num>H", "PT<num>M", and "PT<num>S" respectively. The period string must contain only a single time element i.e. either years, months, days, hours, minutes or seconds. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the string "infinite".</num></num></num></num></num></num> |
| volume | volume | |

svm

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

snaplock_log

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

| Name | Type | Description |
|------------|--|-------------|
| log_files | array[snaplock_log_file] | |
| log_volume | snaplock_log_volume | |
| svm | svm | |

job_link

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

error_arguments

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

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. |

Disassociate SnapLock audit logs

DELETE /storage/snaplock/audit-logs/{svm.uuid}

Introduced In: 9.7

Disassociates a SnapLock volume as the audit log volume for an SVM. This API closes all the active log files in the log volume and marks the volume as disabled for SnapLock logging.

Related ONTAP commands

- `snaplock log delete`

Learn more

- [DOC /storage/snaplock/audit-logs](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| svm.uuid | string | path | True | SVM UUID |
| 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: 1• Max value: 120• Min value: 0 |

Response

Status: 202, Accepted

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

Example response

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

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

job_link

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

error_arguments

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

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 SnapLock audit logs

GET /storage/snaplock/audit-logs/{svm.uuid}

Introduced In: 9.7

Retrieves SnapLock logs for the specified SVM.

Related ONTAP commands

- `snaplock log show`

Learn more

- [DOC /storage/snaplock/audit-logs](#)

Parameters

| Name | Type | In | Required | Description |
|----------|---------------|-------|----------|-------------------------------|
| svm.uuid | string | path | True | SVM UUID |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|--|-------------|
| _links | _links | |
| log_archive | log_archive | |
| log_files | array[snaplock_log_file] | |
| log_volume | snaplock_log_volume | |
| svm | svm | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "log_archive": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_name": "legal_hold",
    "expiry_time": "2058-06-04T19:00:00Z",
    "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
    "size": "20000"
  },
  "log_files": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_name": "legal_hold",
    "expiry_time": "2058-06-04T19:00:00Z",
    "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
    "size": "20000"
  },
  "log_volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "max_log_size": "20971520",
    "retention_period": "P30M",
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
}
```

```

    }
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}

```

Error

Status: Default, Error

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

Example error

```

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

```

Definitions

See Definitions

href

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

_links

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

log_archive

| Name | Type | Description |
|-------------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

snaplock_log_file

| Name | Type | Description |
|-----------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |

| Name | Type | Description |
|-------------|---------|---|
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

snaplock_log_volume

| Name | Type | Description |
|--------------|------------------------|-----------------------------------|
| _links | _links | |
| max_log_size | integer | Maximum size of log file in bytes |

| Name | Type | Description |
|------------------|--------|---|
| retention_period | string | Specifies the default log record retention period. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours, minutes and seconds. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. A duration in hours, minutes and seconds is represented by "PT<num>H", "PT<num>M", and "PT<num>S" respectively. The period string must contain only a single time element i.e. either years, months, days, hours, minutes or seconds. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the string "infinite". |
| volume | volume | |

svm

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

error_arguments

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

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

error

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

Update SnapLock audit logs

PATCH `/storage/snaplock/audit-logs/{svm.uuid}`

Introduced In: 9.7

Updates one of the following:

- the audit log volume,
- the attributes of the audit log volume present, or
- archive the current audit log files

Related ONTAP commands

- `snaplock log modify`

Learn more

- [DOC /storage/snaplock/audit-logs](#)

Parameters

| Name | Type | In | Required | Description |
|----------|--------|------|----------|-------------|
| svm.uuid | string | path | True | SVM UUID |

| 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: 1 • Max value: 120 • Min value: 0 |

Request Body

| Name | Type | Description |
|-------------|--|-------------|
| _links | _links | |
| log_archive | log_archive | |
| log_files | array[snaplock_log_file] | |
| log_volume | snaplock_log_volume | |
| svm | svm | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "log_archive": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_name": "legal_hold",
    "expiry_time": "2058-06-04T19:00:00Z",
    "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
    "size": "20000"
  },
  "log_files": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "base_name": "legal_hold",
    "expiry_time": "2058-06-04T19:00:00Z",
    "path": "/snaplock_log/system_logs/20180822_005947_GMT-present",
    "size": "20000"
  },
  "log_volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "max_log_size": "20971520",
    "retention_period": "P30M",
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
}
```

```

    }
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}

```

Response

Status: 202, Accepted

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

Example response

```

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

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090344 | If log_volume is specified, then log_archive must not be specified |
| 14090345 | If log_archive.base_name is specified, then log_archive.archive must also be specified |
| 14090346 | Internal Error. Wait a few minutes, then try the command again |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

log_archive

| Name | Type | Description |
|-------------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

snaplock_log_file

| Name | Type | Description |
|-----------|------------------------|---|
| _links | _links | |
| archive | boolean | Archive the specified SnapLock log file for the given base_name, and create a new log file. If base_name is not mentioned, archive all log files. |
| base_name | string | Base name of log file |

| Name | Type | Description |
|-------------|---------|---|
| expiry_time | string | Expiry time of the log file in date-time format. Value '9999-12-31T00:00:00Z' indicates infinite expiry time. |
| path | string | Absolute path of the log file in the volume |
| size | integer | Size of the log file in bytes |

volume

| Name | Type | Description |
|------------------------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

snaplock_log_volume

| Name | Type | Description |
|------------------------|------------------------|-----------------------------------|
| _links | _links | |
| max_log_size | integer | Maximum size of log file in bytes |

| Name | Type | Description |
|------------------|--------|---|
| retention_period | string | Specifies the default log record retention period. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours, minutes and seconds. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. A duration in hours, minutes and seconds is represented by "PT<num>H", "PT<num>M", and "PT<num>S" respectively. The period string must contain only a single time element i.e. either years, months, days, hours, minutes or seconds. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the string "infinite". |
| volume | volume | |

svm

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

snaplock_log

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

| Name | Type | Description |
|------------|--|-------------|
| log_files | array[snaplock_log_file] | |
| log_volume | snaplock_log_volume | |
| svm | svm | |

job_link

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

error_arguments

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

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. |

Manage the SnapLock ComplianceClock

Storage SnapLock compliance-clocks endpoint overview

This API manages the ComplianceClock of the system. ComplianceClock determines the expiry time of the SnapLock objects in the system. The user can initialize the ComplianceClock once and when it is set, it cannot be changed by the user. ComplianceClock initialize is not supported in REST.

Retrieve the SnapLock ComplianceClock for nodes in a cluster

GET /storage/snaplock/compliance-clocks

Introduced In: 9.7

Retrieves the SnapLock ComplianceClock for all of the nodes in the cluster.

Related ONTAP commands

- `snaplock compliance-clock show`

Learn more

- [DOC /storage/snaplock/compliance-clocks](#)

Parameters

| Name | Type | 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_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: 1• Max value: 120• Min value: 0 |
| 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 |
|----------|---------------|-------|----------|---|
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

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

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "time": "2018-06-04T19:00:00Z"
  }
}
```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

_links

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

node

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

snaplock_compliance_clock

| Name | Type | Description |
|--------|------------------------|-----------------------|
| _links | _links | |
| node | node | |
| time | string | Compliance clock time |

error_arguments

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

error

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

Retrieve a SnapLock ComplianceClock for a node

GET /storage/snaplock/compliance-clocks/{node.uuid}

Introduced In: 9.7

Retrieves the SnapLock ComplianceClock for a specific node.

Related ONTAP commands

- `snaplock compliance-clock show`

Learn more

- [DOC /storage/snaplock/compliance-clocks](#)

Parameters

| Name | Type | In | Required | Description |
|-----------|---------------|-------|----------|-------------------------------|
| node.uuid | string | path | True | Node UUID |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|--------|------------------------|-----------------------|
| _links | _links | |
| node | node | |
| time | string | Compliance clock time |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "time": "2018-06-04T19:00:00Z"
}
```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

node

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

error_arguments

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

error

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

Manage event based retention operations

Storage SnapLock event-retention operations endpoint overview

Use this API to display all Event Based Retention (EBR) operations and to apply an EBR policy on a specified volume.

Examples

1. Displays all of the EBR operations:

```
GET "/api/storage/snaplock/event-retention/operations"
```

1. Displays all completed EBR operations:

```
GET "/api/storage/snaplock/event-retention/operations?state=completed"
```

1. Displays all completed EBR operations with filter set as volume.uuid:

```
GET "/api/storage/snaplock/event-retention/operations?volume.uuid=b96f976e-404b-11e9-bff2-0050568e4dbe"
```

1. Displays all of the EBR operations with filter set as volume.name:

```
GET "/api/storage/snaplock/event-retention/operations?volume.name=SLCVOL"
```

Examples

1. Applies an EBR policy on a specific path:

```
POST "/api/storage/snaplock/event-retention/operations"
'{"volume.name":"SLCVOL", "policy.name":"p1day", "path":"/dir1/file.txt"}'
```

1. Applies an EBR policy on the complete volume:

```
POST "/api/storage/snaplock/event-retention/operations"
'{"volume.name":"SLCVOL", "policy.name":"p1day", "path":"/"}'
```

Example

```
DELETE "/api/storage/snaplock/event-retention/operations/16842999"
```

Retrieve EBR operations

GET /storage/snaplock/event-retention/operations

Introduced In: 9.7

Retrieves a list of all EBR operations.

Related ONTAP commands

- `snaplock event-retention show`

Learn more

- [DOC /storage/snaplock/event-retention/operations](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| volume.uuid | string | query | True | Volume UUID |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| 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: 1• Max value: 120• Min value: 0 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| 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 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

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

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": "16842759",
    "num_files_failed": "0",
    "num_files_processed": "50",
    "num_files_skipped": "2",
    "num_inodes_ignored": "2",
    "path": "/dir1/file",
    "policy": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    },
    "retention_period": "P30M",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "state": "completed",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```

```

    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}

```

Error

Status: Default, Error

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

Example error

```

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

```

Definitions

See Definitions

href

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

_links

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

_links

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

svm

SVM, applies only to SVM-scoped objects.

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

policy

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|--------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified". |
| svm | svm | SVM, applies only to SVM-scoped objects. |

svm

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

volume

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

| Name | Type | Description |
|------|--------|--|
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

ebr_operation

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID |
| num_files_failed | integer | Specifies the number of files on which the application of EBR policy failed. |
| num_files_processed | integer | Specifies the number of files on which EBR policy was applied successfully. |
| num_files_skipped | integer | Specifies the number of files on which the application of EBR policy was skipped. |
| num_inodes_ignored | integer | Specifies the number of inodes on which the application of EBR policy was not attempted because they were not regular files. |
| path | string | The path for the EBR operation. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| policy | policy | |
| state | string | Specifies the operation status of an EBR operation. |

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

error_arguments

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

error

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

Create an EBR policy

POST /storage/snaplock/event-retention/operations

Introduced In: 9.7

Creates an EBR policy.

Required properties

- `path` - Path of the file.
- `policy.name` - Name of the EBR policy.

Related ONTAP commands

- `snaplock event-retention apply`

Learn more

- [DOC /storage/snaplock/event-retention/operations](#)

Parameters

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

Request Body

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID |
| num_files_failed | integer | Specifies the number of files on which the application of EBR policy failed. |
| num_files_processed | integer | Specifies the number of files on which EBR policy was applied successfully. |
| num_files_skipped | integer | Specifies the number of files on which the application of EBR policy was skipped. |
| num_inodes_ignored | integer | Specifies the number of inodes on which the application of EBR policy was not attempted because they were not regular files. |
| path | string | The path for the EBR operation. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| policy | policy | |
| state | string | Specifies the operation status of an EBR operation. |
| svm | svm | |
| volume | volume | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "16842759",
  "num_files_failed": "0",
  "num_files_processed": "50",
  "num_files_skipped": "2",
  "num_inodes_ignored": "2",
  "path": "/dir1/file",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "state": "completed",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```

```

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

```

Response

Status: 201, Created

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID |
| num_files_failed | integer | Specifies the number of files on which the application of EBR policy failed. |
| num_files_processed | integer | Specifies the number of files on which EBR policy was applied successfully. |
| num_files_skipped | integer | Specifies the number of files on which the application of EBR policy was skipped. |
| num_inodes_ignored | integer | Specifies the number of inodes on which the application of EBR policy was not attempted because they were not regular files. |
| path | string | The path for the EBR operation. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| policy | policy | |
| state | string | Specifies the operation status of an EBR operation. |
| svm | svm | |
| volume | volume | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "16842759",
  "num_files_failed": "0",
  "num_files_processed": "50",
  "num_files_skipped": "2",
  "num_inodes_ignored": "2",
  "path": "/dir1/file",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "state": "completed",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```



```

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

```

Error

Status: Default, Error

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

Example error

```

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

```

Definitions

See Definitions

href

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

_links

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

svm

SVM, applies only to SVM-scoped objects.

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

policy

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|--------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified". |
| svm | svm | SVM, applies only to SVM-scoped objects. |

svm

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

volume

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

| Name | Type | Description |
|------|--------|--|
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

ebr_operation

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID |
| num_files_failed | integer | Specifies the number of files on which the application of EBR policy failed. |
| num_files_processed | integer | Specifies the number of files on which EBR policy was applied successfully. |
| num_files_skipped | integer | Specifies the number of files on which the application of EBR policy was skipped. |
| num_inodes_ignored | integer | Specifies the number of inodes on which the application of EBR policy was not attempted because they were not regular files. |
| path | string | The path for the EBR operation. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| policy | policy | |
| state | string | Specifies the operation status of an EBR operation. |

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

error_arguments

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

error

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

Cancel an ongoing EBR operation

DELETE /storage/snaplock/event-retention/operations/{id}

Introduced In: 9.7

Aborts an ongoing EBR operation.

Related ONTAP commands

- `snaplock event-retention abort`

Learn more

- [DOC /storage/snaplock/event-retention/operations](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|---------------------------------------|
| id | string | path | True | Unique identifier of an EBR operation |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|---|
| 14090541 | A completed or failed operation cannot be aborted |

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

Example error

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

Definitions

See Definitions

error_arguments

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

error

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

Retrieve attributes for an EBR operation

GET /storage/snaplock/event-retention/operations/{id}

Introduced In: 9.7

Retrieves a list of attributes for an EBR operation.

Related ONTAP commands

- `snaplock event-retention show`

Learn more

- [DOC /storage/snaplock/event-retention/operations](#)

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|---------------------------------------|
| id | string | path | True | Unique identifier of an EBR operation |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID |
| num_files_failed | integer | Specifies the number of files on which the application of EBR policy failed. |
| num_files_processed | integer | Specifies the number of files on which EBR policy was applied successfully. |
| num_files_skipped | integer | Specifies the number of files on which the application of EBR policy was skipped. |
| num_inodes_ignored | integer | Specifies the number of inodes on which the application of EBR policy was not attempted because they were not regular files. |
| path | string | The path for the EBR operation. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| policy | policy | |
| state | string | Specifies the operation status of an EBR operation. |
| svm | svm | |
| volume | volume | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "16842759",
  "num_files_failed": "0",
  "num_files_processed": "50",
  "num_files_skipped": "2",
  "num_inodes_ignored": "2",
  "path": "/dir1/file",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "state": "completed",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```

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

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

svm

SVM, applies only to SVM-scoped objects.

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

policy

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|--------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified". |
| svm | svm | SVM, applies only to SVM-scoped objects. |

svm

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

volume

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

| Name | Type | Description |
|------|--------|--|
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

error_arguments

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

error

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

Manage event based retention policies

Storage SnapLock event-retention policies endpoint overview

An event retention policy consists of a policy-name and a retention-period. The policy can be applied to a single file or files in a directory. Only a user with the security login role vsadmin-snaplock can perform the operation. EBR policies cannot be applied to files under a Legal-Hold.

Examples

1. Creates an EBR policy policy_name with a retention period of "10 years":

```
POST "/api/storage/snaplock/event-retention/policies/" '{"name":  
"policy_name","retention_period": "P10Y"}'
```

1. Creates an EBR policy policy_name1 with a retention period of "infinite":

```
POST "/api/storage/snaplock/event-retention/policies/" '{"name":  
"policy_name1","retention_period": "infinite"}'
```

Retrieve event retention policies for an SVM

GET /storage/snaplock/event-retention/policies

Introduced In: 9.7

Retrieves all event retention policies for an SVM.

Related ONTAP commands

- `snaplock event-retention policy show`

Learn more

- [DOC /storage/snaplock/event-retention/policies](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|---------------|-------|----------|---------------------------------------|
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |

| 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: 1 • Max value: 120 • Min value: 0 |
| 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 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

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

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "retention_period": "P30M",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  }
}
```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

_links

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

svm

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

snaplock_retention_policy

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

error_arguments

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

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---------|--------|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Create an EBR policy for an SVM

POST /storage/snaplock/event-retention/policies

Introduced In: 9.7

Creates an Event Based Retention (EBR) policy for an SVM. The input parameter `retention_period` expects the duration in ISO 8601 format or infinite.

Required properties

- `name` - Event retention policy name.
- `retention_period` - Retention period of the EBR policy.

Related ONTAP commands

- `snaplock event-retention policy create`

Learn more

- [DOC /storage/snaplock/event-retention/policies](#)

Parameters

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

Request Body

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 201, Created

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

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

Example error

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


See Definitions

href

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

_links

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

svm

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

snaplock_retention_policy

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

error_arguments

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

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---------|--------|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Delete an EBR policy

DELETE /storage/snaplock/event-retention/policies/{policy.name}

Introduced In: 9.7

Deletes the specified Event Based Retention (EBR) policy.

Related ONTAP commands

- `snaplock event-retention policy delete`

Learn more

- [DOC /storage/snaplock/event-retention/policies](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|------------------------------|
| policy.name | string | path | True | Name of the retention policy |

Response

Status: 200, Ok

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

error_arguments

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

error

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

Retrieve attributes of an EBR policy

GET /storage/snaplock/event-retention/policies/{policy.name}

Introduced In: 9.7

Retrieves a list of attributes of the specified Event Based Retention (EBR) policy.

Related ONTAP commands

- `snaplock event-retention policy show`

Learn more

- [DOC /storage/snaplock/event-retention/policies](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|---------------|-------|----------|-------------------------------|
| policy.name | string | path | True | Name of the retention policy |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

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

Example error

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


Definitions

See Definitions

href

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

_links

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

svm

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

error_arguments

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

error

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

Update the retention period of an EBR policy

PATCH /storage/snaplock/event-retention/policies/{policy.name}

Introduced In: 9.7

Updates the retention period of an Event Based Retention (EBR) policy.

Related ONTAP commands

- `snaplock event-retention policy modify`

Example

Updates the retention period of an EBR policy "policy_name":

```
PATCH "/api/storage/snaplock/event-retention/policies/" '{"name":  
"policy_name","retention_period": "P20Y"}'
```

Learn more

- [DOC /storage/snaplock/event-retention/policies](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|------------------------------|
| policy.name | string | path | True | Name of the retention policy |

Request Body

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "retention_period": "P30M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 200, Ok

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

svm

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

snaplock_retention_policy

| Name | Type | Description |
|--------|------------------------|-------------------------------|
| _links | _links | |
| name | string | Specifies the EBR policy name |

| Name | Type | Description |
|------------------|---------------------|--|
| retention_period | string | Specifies the retention period of an event based retention policy. The retention period value represents a duration and must be specified in the ISO-8601 duration format. The retention period can be in years, months, days, hours or minutes. A period specified for years, months and days is represented in the ISO-8601 format as "P<num>Y", "P<num>M", "P<num>D" respectively. For example "P10Y" represents a duration of 10 years. Similarly, a duration in hours, minutes is represented by "PT<num>H", "PT<num>M" respectively. The period string must contain only a single time element i.e. either years, months, days, hours or minutes. A duration which combines different periods is not supported, example "P1Y10M" is not supported. Apart from the duration specified in the ISO-8601 format, the retention period field also accepts the strings "infinite" and "unspecified".</num></num></num></num></num> |
| svm | svm | |

error_arguments

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

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

| Name | Type | Description |
|---------|--------|---|
| message | string | Error message |
| target | string | The target parameter that caused the error. |

View key information about files and volumes

Storage SnapLock file-fingerprints endpoint overview

Use this API to view key information about files and volumes, including the file type (regular, WORM, or WORM appendable), the volume expiration date, and so on.

Retrieve fingerprint operations of an SVM and volume

GET /storage/snaplock/file-fingerprints

Introduced In: 9.7

Retrieves a list of all the fingerprint operations of the specified SVM and volume.

Related ONTAP commands

- `volume file fingerprint show`

Example

```
GET "/api/storage/snaplock/file-fingerprints/?svm.uuid=23940494-3f3a-11e9-8675-0050568e8f89&volume.uuid=36cdb58c-3f3a-11e9-8675-0050568e8f89"
```

Learn more

- [DOC /storage/snaplock/file-fingerprints](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|---------------|-------|----------|-------------------------------|
| svm.uuid | string | query | True | SVM UUID |
| volume.uuid | string | query | True | Volume UUID |
| fields | array[string] | query | False | Specify the fields to return. |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| max_records | integer | query | False | Limit the number of records returned. |
| 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: 1 • Max value: 120 • Min value: 0 |
| 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 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|--|--------------------|
| _links | _links | |
| num_records | integer | Number of Records. |
| records | array[snaplock_file_fingerprint] | |

Example response

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "algorithm": "sha256",
    "data_fingerprint": "MOFJVeVxNSJm3C/4Bn5oEEYH51CrudOzZYK4r5Cfylg=",
    "file_size": "1048576",
    "file_type": "worm",
    "id": "17039367",
    "metadata_fingerprint":
"8iMjqJXiNcqqXT5XuRhLiEwIrJEihDmwS0hrexnjgmc=",
    "path": "/homedir/dir1",
    "scope": "data_only",
    "state": "completed",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090442 | Invalid Vserver UUID |
| 14090445 | Invalid key values. Provide Vserver UUID and Volume UUID |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

_links

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

svm

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

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6 |

snaplock_file_fingerprint

| Name | Type | Description |
|----------------------|------------------------|---|
| _links | _links | |
| algorithm | string | The digest algorithm which is used for the fingerprint computation |
| data_fingerprint | string | The digest value of data of the file. The fingerprint is base64 encoded. This field is not included if the scope is metadata-only. |
| file_size | integer | The size of the file in bytes. |
| file_type | string | The type of the file. |
| id | integer | A unique identifier for the fingerprint operation |
| metadata_fingerprint | string | The digest value of metadata of the file. The metadata fingerprint is calculated for file size, file ctime, file mtime, file crtime, file retention time, file uid, file gid, and file type. The fingerprint is base64 encoded. This field is not included if the scope is data-only. |
| path | string | Specifies the path on which file fingerprint operation is running or has completed. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| scope | string | The scope of the file which is used for the fingerprint computation |
| state | string | Specifies the status of fingerprint operation. |
| svm | svm | |
| volume | volume | |

error_arguments

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

error

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

Create a fingerprint computation session

POST /storage/snaplock/file-fingerprints

Introduced In: 9.7

Creates a fingerprint computation session on the file and returns a session-id. This session-id is a unique identifier that you can use to retrieve the progress of an ongoing fingerprint operation. When the operation is complete, you can use the session-id to retrieve the complete fingerprint output for the file .

Required properties

- `svm.uuid` or `svm.name` - Name or UUID of the SVM.
- `volume.name` or `volume.uuid` - Name or UUID of the volume.
- `path` - Path of the file.

Default property values

If not specified in POST, the follow default property values are assigned:

- `algorithm` - *md5*

Related ONTAP commands

- `volume file fingerprint start`

Example

```
POST "/api/storage/snaplock/file-fingerprints" '{"svm":{"uuid":"23940494-3f3a-11e9-8675-0050568e8f89"},"volume": {"uuid":"26cdb58c-3f3a-11e9-8675-0050568e8f89"},"path":"/vol/a1.txt","algorithm":"md5"}'
```

Learn more

- [DOC /storage/snaplock/file-fingerprints](#)

Parameters

| 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: 1• Max value: 120• Min value: 0 |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|---|
| 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: |

Request Body

| Name | Type | Description |
|----------------------|------------------------|---|
| _links | _links | |
| algorithm | string | The digest algorithm which is used for the fingerprint computation |
| data_fingerprint | string | The digest value of data of the file. The fingerprint is base64 encoded. This field is not included if the scope is metadata-only. |
| file_size | integer | The size of the file in bytes. |
| file_type | string | The type of the file. |
| id | integer | A unique identifier for the fingerprint operation |
| metadata_fingerprint | string | The digest value of metadata of the file. The metadata fingerprint is calculated for file size, file ctime, file mtime, file crtime, file retention time, file uid, file gid, and file type. The fingerprint is base64 encoded. This is not included if the scope is data-only. |
| path | string | Specifies the path on which file fingerprint operation is running or has completed. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| scope | string | The scope of the file which is used for the fingerprint computation |

| Name | Type | Description |
|--------|------------------------|--|
| state | string | Specifies the status of fingerprint operation. |
| svm | svm | |
| volume | volume | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "algorithm": "sha256",
  "data_fingerprint": "MOFJVevxNSJm3C/4Bn5oEEYH51CrudOzZYK4r5Cfy1g=",
  "file_size": "1048576",
  "file_type": "worm",
  "id": "17039367",
  "metadata_fingerprint":
"8iMjqJXiNcqqXT5XuRhLiEwIrJEihDmwS0hrexnjgmc=",
  "path": "/homedir/dir1",
  "scope": "data_only",
  "state": "completed",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 202, Accepted

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

Example response

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

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090443 | Invalid volume name |
| 14090444 | Invalid Vserver name |
| 14090447 | Invalid volume UUID |
| 14090448 | Invalid key values. Provide valid Vserver name and volume name or Vserver UUID and volume UUID |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

svm

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

volume

| Name | Type | Description |
|--------|------------------------|---|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6 |

snaplock_file_fingerprint

| Name | Type | Description |
|-----------|------------------------|--|
| _links | _links | |
| algorithm | string | The digest algorithm which is used for the fingerprint computation |

| Name | Type | Description |
|----------------------|------------------------|---|
| data_fingerprint | string | The digest value of data of the file. The fingerprint is base64 encoded. This field is not included if the scope is metadata-only. |
| file_size | integer | The size of the file in bytes. |
| file_type | string | The type of the file. |
| id | integer | A unique identifier for the fingerprint operation |
| metadata_fingerprint | string | The digest value of metadata of the file. The metadata fingerprint is calculated for file size, file ctime, file mtime, file crtime, file retention time, file uid, file gid, and file type. The fingerprint is base64 encoded. This field is not included if the scope is data-only. |
| path | string | Specifies the path on which file fingerprint operation is running or has completed. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| scope | string | The scope of the file which is used for the fingerprint computation |
| state | string | Specifies the status of fingerprint operation. |
| svm | svm | |
| volume | volume | |

job_link

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

error_arguments

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

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. |

Cancel a fingerprint operation

DELETE /storage/snaplock/file-fingerprints/{id}

Introduced In: 9.7

Aborts an in-progress fingerprint operation. This API takes session-id as input and aborts the fingerprint operation that is associated with the specified session-id.

Related ONTAP commands

- `volume file fingerprint abort`

Learn more

- [DOC /storage/snaplock/file-fingerprints](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|------------------------------------|
| id | string | path | True | Unique identifier of the operation |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090440 | File fingerprint operation has completed |
| 14090446 | Invalid session ID |

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

Example error

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

Definitions

See Definitions

error_arguments

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

error

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

Retrieve the file fingerprint information for a specific session ID

GET /storage/snaplock/file-fingerprints/{id}

Introduced In: 9.7

Retrieves the file fingerprint information for a specific session ID.

Related ONTAP commands

- `volume file fingerprint dump`

Learn more

- [DOC /storage/snaplock/file-fingerprints](#)

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|------------------------------------|
| id | string | path | True | Unique identifier of the operation |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| algorithm | string | The digest algorithm which is used for the fingerprint computation |
| data_fingerprint | string | The digest value of data of the file. The fingerprint is base64 encoded. This field is not included if the scope is metadata-only. |
| file_size | integer | The size of the file in bytes. |
| file_type | string | The type of the file. |
| id | integer | A unique identifier for the fingerprint operation |
| metadata_fingerprint | string | The digest value of metadata of the file. The metadata fingerprint is calculated for file size, file ctime, file mtime, file crtime, file retention time, file uid, file gid, and file type. The fingerprint is base64 encoded. This field is not included if the scope is data-only. |
| path | string | Specifies the path on which file fingerprint operation is running or has completed. Specifies the path relative to the output volume root, of the form "/path". The path can be path to a file or a directory. |
| scope | string | The scope of the file which is used for the fingerprint computation |
| state | string | Specifies the status of fingerprint operation. |
| svm | svm | |
| volume | volume | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "algorithm": "sha256",
  "data_fingerprint": "MOFJVevxNSJm3C/4Bn5oEEYH51CrudOzZYK4r5Cfy1g=",
  "file_size": "1048576",
  "file_type": "worm",
  "id": "17039367",
  "metadata_fingerprint":
  "8iMjqJXiNcqqXT5XuRhLiEwIrJEihDmwS0hrexnjgmc=",
  "path": "/homedir/dir1",
  "scope": "data_only",
  "state": "completed",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volumel",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090441 | Invalid key values. Provide session ID or Vserver UUID and volume UUID |
| 14090449 | File fingerprint operation has not completed |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

svm

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

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6 |

error_arguments

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

error

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

Manage SnapLock file retention time

Storage SnapLock file volume.uuid path endpoint overview

This API manages the SnapLock retention time of a file. You can perform a privileged-delete operation by executing this API.

Examples

1. Sets the SnapLock retention time of a file:

```
PATCH "/api/storage/snaplock/file/000dc5fd-4175-11e9-b937-0050568e3f82/%2Ffile2.txt" '{"expiry_time": "2030-02-14T18:30:00+5:30"}'
```

2. Extends the retention time of a WORM file:

```
PATCH "/api/storage/snaplock/file/000dc5fd-4175-11e9-b937-0050568e3f82/%2Ffile2.txt" '{"expiry_time": "infinite"}'
```

Delete unexpired WORM files of a SnapLock enterprise volume

DELETE /storage/snaplock/file/{volume.uuid}/{path}

Introduced In: 9.7

Deletes unexpired WORM files of a SnapLock Enterprise volume. This is a privileged-delete operation. The only built-in role that has access to the command is vsadmin-snaplock.

Related ONTAP commands

- `volume file privileged-delete`

Learn more

- [DOC /storage/snaplock/file/{volume.uuid}/{path}](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| volume.uuid | string | path | True | Volume UUID |
| path | string | path | True | Path of the file in the form "/<dirpath>/<filename>" </filename></dirpath> |
| 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: 1• Max value: 120• Min value: 0 |

Response

Status: 202, Accepted

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

Example response

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

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|---|
| 14090347 | File path must be in the format "<dir><file path><dir>" |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

job_link

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

error_arguments

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

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 SnapLock retention details of a file

GET /storage/snaplock/file/{volume.uuid}/{path}

Introduced In: 9.7

Retrieves the SnapLock retention details of the specified file. An indefinite expiry time indicates the file is under a Legal-Hold.

Related ONTAP commands

- `volume file retention show`

Learn more

- [DOC /storage/snaplock/file/{volume.uuid}/{path}](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|---------------|-------|----------|--|
| volume.uuid | string | path | True | Volume UUID |
| path | string | path | True | Path of the file in the form "/<dirpath>/<filename>" </filename></dirpath> |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|------------------------|--|
| _links | _links | |
| expiry_time | string | Expiry time of the file in date-time format, "infinite", "indefinite", or "unspecified". An "infinite" retention time indicates that the file will be retained forever. An "unspecified" retention time indicates that the file will be retained forever; however, the retention time of the file can be changed to an absolute value. An "indefinite" retention time indicates that the file is under Legal-Hold. |

| Name | Type | Description |
|-----------|------------------------|--|
| file_path | string | Specifies the volume relative path of the file |
| svm | svm | |
| volume | volume | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "expiry_time": "2058-06-04T19:00:00Z",
  "file_path": "/dir1/file",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090347 | File path must be in the format "<dir><file path>"</dir> |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

svm

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

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6 |

error_arguments

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

error

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

Update the SnapLock retention time of a file

PATCH /storage/snaplock/file/{volume.uuid}/{path}

Introduced In: 9.7

Updates the SnapLock retention time of a file or extends the retention time of a WORM file. Input parameter "expiry_time" expects the date in ISO 8601 format, "infinite", or "unspecified".

Related ONTAP commands

- `volume file retention set`

Learn more

- [DOC /storage/snaplock/file/{volume.uuid}/{path}](#)

Parameters

| Name | Type | In | Required | Description |
|-------------|--------|------|----------|--|
| volume.uuid | string | path | True | Volume UUID |
| path | string | path | True | Path of the file in the form "/<dirpath>/<filename>" </filename></dirpath> |

Request Body

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

| Name | Type | Description |
|-------------|------------------------|--|
| expiry_time | string | Expiry time of the file in date-time format, "infinite", "indefinite", or "unspecified". An "infinite" retention time indicates that the file will be retained forever. An "unspecified" retention time indicates that the file will be retained forever; however, the retention time of the file can be changed to an absolute value. An "indefinite" retention time indicates that the file is under Legal-Hold. |
| file_path | string | Specifies the volume relative path of the file |
| svm | svm | |
| volume | volume | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "expiry_time": "2058-06-04T19:00:00Z",
  "file_path": "/dir1/file",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090347 | File path must be in the format "<dir><file path="">\</file></dir> |
| 14090348 | Invalid Expiry time |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

svm

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

volume

| Name | Type | Description |
|--------|------------------------|---|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6 |

snaplock_file_retention

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

| Name | Type | Description |
|-------------|------------------------|--|
| expiry_time | string | Expiry time of the file in date-time format, "infinite", "indefinite", or "unspecified". An "infinite" retention time indicates that the file will be retained forever. An "unspecified" retention time indicates that the file will be retained forever; however, the retention time of the file can be changed to an absolute value. An "indefinite" retention time indicates that the file is under Legal-Hold. |
| file_path | string | Specifies the volume relative path of the file |
| svm | svm | |
| volume | volume | |

error_arguments

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

error

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

Manage SnapLock storage litigations

Storage SnapLock litigations endpoint overview

Use this API to retain Compliance-mode WORM files for the duration of a litigation. A file under a legal-hold behaves as a WORM file with an indefinite retention period. Litigation ID is a combination of volume UUID and litigation name in the format `<volume UUID>:<litigation name>`. Only a user with the security login role `vsadmin-snaplock` can perform the operation.

Retrieve litigations under an SVM

GET `/storage/snaplock/litigations`

Introduced In: 9.7

Retrieves the list of litigations under an SVM.

Related ONTAP commands

- `snaplock legal-hold show`

Learn more

- [DOC /storage/snaplock/litigations](#)

Parameters

| Name | Type | 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_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: 1• Max value: 120• Min value: 0 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| 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 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|--|-------------------|
| _links | _links | |
| num_records | integer | Number of Records |
| records | array[snaplock_litigation] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": "string",
    "name": "lit1",
    "operations": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "id": "16842759",
      "num_files_failed": "0",
      "num_files_processed": "30",
      "num_files_skipped": "10",
      "num_inodes_ignored": "10",
      "path": "/dir1",
      "state": "completed",
      "type": "begin"
    },
    "path": "/dir1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
```



```

    "self": {
      "href": "/api/resourcelink"
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |

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

Example error

```

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

```

Definitions

See Definitions

href

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

_links

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

_links

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

snaplock_legal_hold_operation

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |

| Name | Type | Description |
|-------|--------|---|
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

svm

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

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

snaplock_litigation

| Name | Type | Description |
|------------|--|---|
| _links | _links | |
| id | string | Specifies the litigation ID. |
| name | string | Specifies the legal-hold litigation name. |
| operations | array[snaplock_legal_hold_operation] | |

| Name | Type | Description |
|--------|------------------------|---|
| path | string | Specifies the path on which legal-hold operation has to be applied. |
| svm | svm | |
| volume | volume | |

error_arguments

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

error

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

Start a legal-hold operation

POST /storage/snaplock/litigations

Introduced In: 9.7

Starts a Legal-Hold.

Required properties

- path - Path of the file.
- name - Litigation name.
- volume.name or volume.uuid - Name or UUID of the volume.

Related ONTAP commands

- `snaplock legal-hold begin`

Example

```
POST "/api/storage/snaplock/litigations"
'{"volume.name":"SLC1","name":"l3","path":"/b.txt"}'
```

Learn more

- [DOC /storage/snaplock/litigations](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. <ul style="list-style-type: none">• Default value: |

Request Body

| Name | Type | Description |
|------------|--|---|
| _links | _links | |
| id | string | Specifies the litigation ID. |
| name | string | Specifies the legal-hold litigation name. |
| operations | array[snaplock_legal_hold_operation] | |
| path | string | Specifies the path on which legal-hold operation has to be applied. |
| svm | svm | |
| volume | volume | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "string",
  "name": "lit1",
  "operations": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": "16842759",
    "num_files_failed": "0",
    "num_files_processed": "30",
    "num_files_skipped": "10",
    "num_inodes_ignored": "10",
    "path": "/dir1",
    "state": "completed",
    "type": "begin"
  },
  "path": "/dir1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 201, Created

| Name | Type | Description |
|------------|--|---|
| _links | _links | |
| id | string | Specifies the litigation ID. |
| name | string | Specifies the legal-hold litigation name. |
| operations | array[snaplock_legal_hold_operation] | |
| path | string | Specifies the path on which legal-hold operation has to be applied. |
| svm | svm | |
| volume | volume | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "string",
  "name": "lit1",
  "operations": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": "16842759",
    "num_files_failed": "0",
    "num_files_processed": "30",
    "num_files_skipped": "10",
    "num_inodes_ignored": "10",
    "path": "/dir1",
    "state": "completed",
    "type": "begin"
  },
  "path": "/dir1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```


Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |
| 14090340 | {field} is a required field |
| 14090343 | Invalid Field |
| 14090641 | The specified volume.name and volume.uuid refer to different volumes |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

snaplock_legal_hold_operation

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

svm

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

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

snaplock_litigation

| Name | Type | Description |
|------------|--|---|
| _links | _links | |
| id | string | Specifies the litigation ID. |
| name | string | Specifies the legal-hold litigation name. |
| operations | array[snaplock_legal_hold_operation] | |
| path | string | Specifies the path on which legal-hold operation has to be applied. |
| svm | svm | |
| volume | volume | |

error_arguments

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

error

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

Create a legal-hold end on all of the files for a litigation ID

```
DELETE /storage/snaplock/litigations/{id}
```

Introduced In: 9.7

Creates a legal-hold end on all of the files for the specified litigation ID. This is only allowed when an operation is no longer in progress.

Related ONTAP commands

- `snaplock legal-hold end`

Example

```
DELETE "/api/storage/snaplock/litigations/fd72e138-4bc3-11e9-a85f-0050568eb48f%3A13"
```

Learn more

- [DOC /storage/snaplock/litigations](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|---------------|
| id | string | path | True | Litigation ID |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |
| 14090343 | Invalid Field |
| 14090642 | Legal-Hold operation is in progress. Legal-Hold end cannot be performed. Wait for the operation to complete or abort the operation |

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

Example error

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

Definitions

See Definitions

error_arguments

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

error

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

Retrieve ongoing operations for a litigation ID

GET /storage/snaplock/litigations/{id}

Introduced In: 9.7

Retrieves the list of ongoing operations for the specified litigation ID.

Related ONTAP commands

- `snaplock legal-hold show`

Learn more

- [DOC /storage/snaplock/litigations](#)

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| id | string | path | True | Litigation ID |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------|--|---|
| _links | _links | |
| id | string | Specifies the litigation ID. |
| name | string | Specifies the legal-hold litigation name. |
| operations | array[snaplock_legal_hold_operation] | |
| path | string | Specifies the path on which legal-hold operation has to be applied. |
| svm | svm | |
| volume | volume | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "string",
  "name": "lit1",
  "operations": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": "16842759",
    "num_files_failed": "0",
    "num_files_processed": "30",
    "num_files_skipped": "10",
    "num_inodes_ignored": "10",
    "path": "/dir1",
    "state": "completed",
    "type": "begin"
  },
  "path": "/dir1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```


Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |
| 14090343 | Invalid Field |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

snaplock_legal_hold_operation

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

svm

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

volume

| Name | Type | Description |
|--------|------------------------|--|
| _links | _links | |
| name | string | The name of the volume. |
| uuid | string | <p>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.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6 |

error_arguments

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

error

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

View litigation ID files

Storage SnapLock litigations litigation.id files endpoint overview

Displays the list of files under the specified litigation ID.

Display files for a litigation ID

GET /storage/snaplock/litigations/{litigation.id}/files

Introduced In: 9.7

Displays the list of files for the specified litigation ID.

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| litigation.id | string | path | True | Litigation ID |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | <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: 1 • 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 | _links | |
| num_records | integer | Number of records |
| records | array[records] | List of Files under the specified litigation. |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "file": {
    }
  }
}
```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

records

| Name | Type | Description |
|----------------|---------------|--|
| file | array[string] | Name of the file including the path from the root. |
| sequence_index | integer | Sequence index of files path list. |

error_arguments

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

error

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

Manage legal-hold operations

Storage SnapLock litigations litigation.id operations endpoint overview

Manages the legal-hold operations for the specified litigation ID.

Examples

1. Adds a Legal-Hold.

```
POST "/api/storage/snaplock/litigations/f8a67b60-4461-11e9-b327-0050568ebef5:11/operations" '{"type" : "begin", "path" : "/a.txt"}'
```

1. Removes a Legal-Hold.

```
POST "/api/storage/snaplock/litigations/f8a67b60-4461-11e9-b327-0050568ebef5:11/operations" '{"type" : "end", "path" : "/a.txt"}'
```

Create or remove litigations for a path

POST /storage/snaplock/litigations/{litigation.id}/operations

Introduced In: 9.7

Creates or removes litigations for the specified path.

Required properties

- `type` - Legal-Hold operation type.
- `path` - Litigation path.

Related ONTAP commands

- `snaplock legal-hold begin`
- `snaplock legal-hold end`

Learn more

- [DOC /storage/snaplock/litigations/{litigation.id}/operations](#)

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|---------------|
| litigation.id | string | path | True | Litigation ID |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|---|
| 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: |

Request Body

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "16842759",
  "num_files_failed": "0",
  "num_files_processed": "30",
  "num_files_skipped": "10",
  "num_inodes_ignored": "10",
  "path": "/dir1",
  "state": "completed",
  "type": "begin"
}
```

Response

Status: 201, Created

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |

| Name | Type | Description |
|--------------------|--------|---|
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "16842759",
  "num_files_failed": "0",
  "num_files_processed": "30",
  "num_files_skipped": "10",
  "num_inodes_ignored": "10",
  "path": "/dir1",
  "state": "completed",
  "type": "begin"
}
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |

| Error code | Description |
|------------|---------------|
| 14090343 | Invalid Field |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

snaplock_legal_hold_operation

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

error_arguments

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

error

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

Cancel the ongoing legal-hold operation

DELETE /storage/snaplock/litigations/{litigation.id}/operations/{id}

Introduced In: 9.7

Aborts the ongoing legal-hold operation. An abort does not rollback any changes already made. You must re-run begin or end for cleanup.

Related ONTAP commands

- `snaplock legal-hold abort`

Example

```
DELETE "/api/storage/snaplock/litigations/f8a67b60-4461-11e9-b327-0050568ebef5:11/operations/16908292"
```

Learn more

- [DOC /storage/snaplock/litigations/{litigation.id}/operations](#)

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|---------------|
| litigation.id | string | path | True | Litigation ID |

| Name | Type | In | Required | Description |
|------|--------|------|----------|---------------|
| id | string | path | True | Operation ID. |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |
| 14090541 | A completed or failed operation cannot be aborted |

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

Example error

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

Definitions

See Definitions

error_arguments

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

error

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

Retrieve the status of legal-hold for an operation ID

GET /storage/snaplock/litigations/{litigation.id}/operations/{id}

Introduced In: 9.7

Retrieves the status of legal-hold for the specified operation ID.

Related ONTAP commands

- `snaplock legal-hold show`

Learn more

- [DOC /storage/snaplock/litigations/{litigation.id}/operations](#)

Parameters

| Name | Type | In | Required | Description |
|---------------|--------|------|----------|---------------|
| litigation.id | string | path | True | Litigation ID |
| id | string | path | True | Operation ID. |

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|---------------------|------------------------|--|
| _links | _links | |
| id | integer | Operation ID. |
| num_files_failed | string | Specifies the number of files on which legal-hold operation failed. |
| num_files_processed | string | Specifies the number of files on which legal-hold operation was successful. |
| num_files_skipped | string | Specifies the number of files on which legal-hold begin operation was skipped. The legal-hold begin operation is skipped on a file if it is already under hold for a given litigation. |
| num_inodes_ignored | string | Specifies the number of inodes on which the legal-hold operation was not attempted because they were not regular files. |
| path | string | Specifies the path on which legal-hold operation is applied. |
| state | string | Specifies the status of legal-hold operation. |
| type | string | Specifies the type of legal-hold operation. |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": "16842759",
  "num_files_failed": "0",
  "num_files_processed": "30",
  "num_files_skipped": "10",
  "num_inodes_ignored": "10",
  "path": "/dir1",
  "state": "completed",
  "type": "begin"
}
```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--|
| 14090346 | Internal Error. Wait a few minutes, then try the command again |
| 14090343 | Invalid Field |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

error_arguments

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

error

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

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