



SnapLock

ONTAP 9.10.1 REST API Documentation

NetApp
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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 SVM 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
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.path	string	query	False	Filter by log_files.path
log_files.expiry_time	string	query	False	Filter by log_files.expiry_time
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.path	string	query	False	Filter by log_archive.path
log_archive.expiry_time	string	query	False	Filter by log_archive.expiry_time
log_archive.size	integer	query	False	Filter by log_archive.size
log_volume.retention_period	string	query	False	Filter by log_volume.retention_period
log_volume.max_log_size	integer	query	False	Filter by log_volume.max_log_size
log_volume.volume.uuid	string	query	False	Filter by log_volume.volume.uuid

Name	Type	In	Required	Description
log_volume.volume.name	string	query	False	Filter by log_volume.volume.name
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></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
<code>return_timeout</code>	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></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".</num></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.

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".</num></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.

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.

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	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. <ul style="list-style-type: none">• Default value: 1• Max value: 120• Min value: 0
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <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.

Initialize a SnapLock ComplianceClock

POST `/storage/snaplock/compliance-clocks`

Introduced In: 9.10

Initializes the SnapLock ComplianceClock.

Required properties

- `node.name` or `node.uuid` - Name or UUID of the node.

Related ONTAP commands

- `snaplock compliance-clock initialize`

Learn more

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

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
<code>_links</code>	_links	
<code>node</code>	node	

Name	Type	Description
time	string	Compliance clock time

Example request

```
{
  "_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"
}
```

Response

Status: 201, Created

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	

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

Name	Type	Description
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	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. <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	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 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	<p>Order results by specified fields and optional [asc</p>

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".
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
<code>return_records</code>	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
<code>_links</code>	_links	
<code>name</code>	string	Specifies the EBR policy name

Name	Type	Description
retention_period	string	<p>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".</p>
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	<p>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".</p>
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.

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".
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	<p>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".</p>
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	<p>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".</p>
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".
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	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. <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <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

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.

```

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

```


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 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

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": "volumel",
"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	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

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="">\</file></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	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_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	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. <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. • 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. <ul style="list-style-type: none">• Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.</p> <ul style="list-style-type: none"> • Default value: 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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