NetApp

Manage SnapLock file retention time

REST API reference

NetApp
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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"}'
```

1. Extends the retention time of a WORM file:

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

1. Extends the retention time of a WORM file:

```
PATCH "/api/storage/snaplock/file/000dc5fd-4175-11e9-b937-
0050568e3f82/%2Ffile2.txt" '{"retention_period": "P1M"}'
```

1. Extends the retention time of a WORM file:

```
PATCH "/api/storage/snaplock/file/000dc5fd-4175-11e9-b937-
0050568e3f82/%2Ffile2.txt" '{"retention_period": "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	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0

Response

```
Status: 200, Ok
```

Name	Type	Description
job	job_link	

Example response

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

Response

```
Status: 202, Accepted
```

Error

```
Status: Default
```

ONTAP Error Response codes

Error code	Description
262179	Unexpected argument "<file_name>\"</file_name>
6691623	User is not authorized
13763162	SnapLock audit log volume is not configured for the SVM
13763280	Only a user with the security login role "vsadmin-snaplock" is allowed to perform this operation
14090347	File path must be in the format "\/<dir>\/<file path>"

Error code	Description
917804	Path should be given in the format "\/\vol\/<volume name>\/<file path>".

Name	Type	Description
error	returned_error	

Example error

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

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

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

returned_error

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

Retrieve 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
is_expired	boolean	This indicates if the file is under active retention or if the file is past its expiry time.
seconds_until_expiry	integer	Specifies the number of seconds until the expiration time of the file.
svm	svm	SVM, applies only to SVM-scoped objects.
volume	volume	

Name	Type	Description

Example response

```json
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "expiry_time": "2058-06-04 15:00:00 -0400",
  "file_path": "/dir1/file",
  "is_expired": 1,
  "seconds_until_expiry": 168,
  "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
262179	Unexpected argument "<file_name>\"</file_name>
917864	Operation not supported
6691623	User is not authorized

Error code	Description
13762592	Operation not supported on non-SnapLock volume
14090347	File path must be in the format "\/<dir>\/<file path>"
917804	Path should be given in the format "\/\vol\/<volume name>\/<file path>".

Name	Type	Description
error	returned_error	

Example error

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

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

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

volume

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

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

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

Update the 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 parameters "expiry_time" or "retention_period" can be used to set or extend the retention time of file. Both "expiry_time" and "retention_period" parameters expect the date in ISO 8601 format. Additionally, the "expiry_time" parameter can also be set to "infinite" or "unspecified" and the "retention_period" parameter can also be set to "infinite". The input parameters are mutually exclusive.

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

Name	Type	In	Required	Description
path	string	path	True	Path of the file in the form "/\<dirpath\>/\<filename\>"\</filename\>\</dirpath\>

Request Body

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.
is_expired	boolean	This indicates if the file is under active retention or if the file is past its expiry time.
retention_period	string	Duration of retention time file to be locked with, An "infinite" retention period indicates that the file will be retained forever.
seconds_until_expiry	integer	Specifies the number of seconds until the expiration time of the file.

Example request

```
{
   "expiry_time": "2058-06-04 15:00:00 -0400",
   "is_expired": 1,
   "retention_period": "P2M",
   "seconds_until_expiry": 168
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response codes

Error code	Description
262179	Unexpected argument "<file_name>\"</file_name>
262186	Field "expiry_time" cannot be used with field "retention_period"
6691623	User is not authorized
13763279	The resulting expiry time due to the specified retention period is earlier than the current expiry time
14090348	Invalid Expiry time
14090347	File path must be in the format "\/<dir>\/<file path>"
917804	Path should be given in the format "\/vol\/<volume name>\/<file path>".

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

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

volume

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

snaplock_file_retention

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.
is_expired	boolean	This indicates if the file is under active retention or if the file is past its expiry time.
retention_period	string	Duration of retention time file to be locked with, An "infinite" retention period indicates that the file will be retained forever.
seconds_until_expiry	integer	Specifies the number of seconds until the expiration time of the file.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

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