



# **Manage SnapLock file retention time**

## **REST API reference**

NetApp  
July 17, 2026

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# Manage SnapLock file retention time

## Manage SnapLock file retention time

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<br>"/<dirpath>/<filename>"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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"><li>• Default value: 0</li><li>• Max value: 120</li><li>• Min value: 0</li></ul> |

## Response

Status: 200, Ok

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

### Example response

```
{
  "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 "V<dir>V<file path>"                                             |
| 917804     | Path should be given in the format "\volV<volume name>V<file path>".                             |

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_error</a> |             |

### 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 | <a href="#">href</a> |             |

job\_link

| Name   | Type                   | Description                                                                               |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | <a href="#">_links</a> |                                                                                           |
| 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[ <a href="#">error_arguments</a> ] | 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<br>"/<dirpath>/<filename>" |
| fields      | array[string] | query | False    | Specify the fields to return.                           |

## Response

Status: 200, Ok

| Name        | Type                   | Description                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links      | <a href="#">_links</a> |                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                                                                                                                                                     |



| Name                 | Type                   | Description                                                                                  |
|----------------------|------------------------|----------------------------------------------------------------------------------------------|
| 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                  | <a href="#">svm</a>    | SVM, applies only to SVM-scoped objects.                                                     |
| volume               | <a href="#">volume</a> |                                                                                              |

### Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "expiry_time": "2058-06-04 19:00:00 +0000",
  "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                                               |
| 13762592   | Operation not supported on non-SnapLock volume                       |
| 14090347   | File path must be in the format "V<dir>V<file path>"                 |
| 917804     | Path should be given in the format "\volV<volume name>V<file path>". |

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_error</a> |             |

### 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 | <a href="#">href</a> |             |

svm

SVM, applies only to SVM-scoped objects.

| Name   | Type                   | Description                                                                         |
|--------|------------------------|-------------------------------------------------------------------------------------|
| _links | <a href="#">_links</a> |                                                                                     |
| 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 | <a href="#">_links</a> |                                                                                                                                                                                                                                                                                                                 |
| 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. <ul style="list-style-type: none"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul> |

error\_arguments

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

returned\_error

| Name      | Type                                     | Description                                 |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | 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<br>"/<dirpath>/<filename>" |

## 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 19:00:00 +0000",
  "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 "V<dir>V<file path>"                                                    |
| 917804     | Path should be given in the format "\volV<volume name>V<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. <ul style="list-style-type: none"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul> |

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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |



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