Manage event based retention operations

REST API reference

NetApp
September 12, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi-9111/storage_snaplock_event-retention_operations_endpoint_overview.html on September 12, 2025. Always check docs.netapp.com for the latest.

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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.

Name	Type	In	Required	Description
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. • 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. • 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"
          }
        },
        "name": "string",
        "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

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".</num></num></num></num></num>
svm	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. • 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.
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


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

Name	Type	Description
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


```
{
  "id": 16842759,
  "num_files_failed": 0,
  "num_files_processed": 50,
  "num_files_skipped": 2,
  "num_inodes_ignored": 2,
  "path": "/dir1/file",
  "policy": {
    "name": "string",
    "retention_period": "P30M",
    "svm": {
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },
  "state": "completed",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "volume": {
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```


Error

```
Status: Default, Error
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

Name	Type	Description
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".</num></num></num></num></num>
svm	svm	

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.

Name	Type	Description
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

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.
svm	svm	

Name	Type	Description
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

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	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"
      }
    },
    "name": "string",
    "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

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".</num></num></num></num></num>
svm	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. • 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.

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