# Manage event based retention operations

## REST API reference

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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.<br>• Default value: 1<br>• Max value: 120<br>• 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.<br>• 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

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".</num></num></num></num></num> |
| 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.<br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br>• 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.<br>• Default value: |

## Request Body

| Name | Type | Description |
|---|---|---|
| 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 |
|---|---|---|
| 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. |

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

SVM, applies only to SVM-scoped objects.

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

policy

| Name | Type | Description |
|---|---|---|
| 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, applies only to SVM-scoped objects. |

svm

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

volume

| Name | Type | Description |
| --- | --- | --- |
| 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.<br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br>• Introduced in: 9.6 |

ebr_operation

| Name | Type | Description |
|---|---|---|
| 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. |

# 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

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".</num></num></num></num></num> |
| 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.<br>• example: 028baa66-41bd-11e9-81d5-00a0986138f7<br>• 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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