



Manage FPolicy event configuration

ONTAP 9.9.1 REST API reference

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Manage FPolicy event configuration

Protocols fpolicy svm.uuid events endpoint overview

Overview

FPolicy events configurations allow you to specify which file access is monitored. As part of an FPolicy event, you can configure the SVM for which the events are generated, the name of the event configuration, the protocol (cifs, nfsv3/nfsv4) for which the events are generated, the file operations which are monitored, and filters that can be used to filter the unwanted notification generation for a specified protocol and file operation.

Each protocol has a set of supported file operations and filters. An SVM can have multiple events. A single FPolicy policy can have multiple FPolicy events.

Examples

Creating an FPolicy event for a CIFS protocol with all the supported file operations and filters

```
# The API:
POST /protocols/fpolicy/{svm.uuid}/events

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/events?return_records=true" -H "accept: application/json" -H "Content-Type: application/json" -d "{
  \"file_operations\": { \"close\": true, \"create\": true, \"create_dir\": true, \"delete\": true, \"delete_dir\": true, \"getattr\": true, \"open\": true, \"read\": true, \"rename\": true, \"rename_dir\": true, \"setattr\": true, \"write\": true }, \"filters\": { \"close_with_modification\": true, \"close_with_read\": true, \"close_without_modification\": true, \"first_read\": true, \"first_write\": true, \"monitor_ads\": true, \"offline_bit\": true, \"open_with_delete_intent\": true, \"open_with_write_intent\": true, \"write_with_size_change\": true }, \"name\": \"event_cifs\", \"protocol\": \"cifs\", \"volume_monitoring\": true}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "name": "event_cifs",
      "protocol": "cifs",
      "volume_monitoring": true,
      "file_operations": {
```

```
"close": true,
"create": true,
"create_dir": true,
"delete": true,
"delete_dir": true,
"getattr": true,
"open": true,
"read": true,
"write": true,
"rename": true,
"rename_dir": true,
"setattr": true
},
"filters": {
  "monitor_ads": true,
  "close_with_modification": true,
  "close_without_modification": true,
  "close_with_read": true,
  "first_read": true,
  "first_write": true,
  "offline_bit": true,
  "open_with_delete_intent": true,
  "open_with_write_intent": true,
  "write_with_size_change": true
}
]
}
```

Creating an FPolicy event for an NFS protocol with all the supported file operations and filters

```
# The API:
post /protocols/fpolicy/{svm.uuid}/events

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/events?return_records=true" -H "accept: application/json" -H "Content-Type: application/json" -d "{
  \"file_operations\": { \"create\": true, \"create_dir\": true, \"delete\": true, \"delete_dir\": true, \"link\": true, \"lookup\": true, \"read\": true, \"rename\": true, \"rename_dir\": true, \"setattr\": true, \"symlink\": true, \"write\": true }, \"filters\": { \"offline_bit\": true, \"write_with_size_change\": true }, \"name\": \"event_nfsv3\", \"protocol\": \"nfsv3\", \"volume_monitoring\": false}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "name": "event_nfsv3",
      "protocol": "nfsv3",
      "volume_monitoring": false,
      "file_operations": {
        "create": true,
        "create_dir": true,
        "delete": true,
        "delete_dir": true,
        "link": true,
        "lookup": true,
        "read": true,
        "write": true,
        "rename": true,
        "rename_dir": true,
        "setattr": true,
        "symlink": true
      },
      "filters": {
        "offline_bit": true,
        "write_with_size_change": true
      }
    }
  ]
}
```

Retrieving all of the FPolicy event configurations for a specified SVM

```
# The API:
GET /protocols/fpolicy/{svm.uuid}/events

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/events/?fields=*&return_records=true&return_timeout=15"
-H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "4f643fb4-fd21-11e8-ae49-0050568e2c1e"
      },
      "name": "cluster",
      "protocol": "cifs",
      "volume_monitoring": false,
      "file_operations": {
        "close": true,
        "create": false,
        "create_dir": false,
        "delete": false,
        "delete_dir": false,
        "getattr": false,
        "link": false,
        "lookup": false,
        "open": false,
        "read": false,
        "write": false,
        "rename": false,
        "rename_dir": false,
        "setattr": false,
        "symlink": false
      },
      "filters": {
        "monitor_ads": false,
        "close_with_modification": false,
        "close_without_modification": false,
        "close_with_read": true,
        "first_read": false,
        "first_write": false,

```

```

    "offline_bit": false,
    "open_with_delete_intent": false,
    "open_with_write_intent": false,
    "write_with_size_change": false,
    "setattr_with_owner_change": false,
    "setattr_with_group_change": false,
    "setattr_with_sacl_change": false,
    "setattr_with_dacl_change": false,
    "setattr_with_modify_time_change": false,
    "setattr_with_access_time_change": false,
    "setattr_with_creation_time_change": false,
    "setattr_with_mode_change": false,
    "setattr_with_size_change": false,
    "setattr_with_allocation_size_change": false,
    "exclude_directory": false
  }
},
{
  "svm": {
    "uuid": "4f643fb4-fd21-11e8-ae49-0050568e2c1e"
  },
  "name": "event_cifs",
  "protocol": "cifs",
  "volume_monitoring": true,
  "file_operations": {
    "close": true,
    "create": true,
    "create_dir": true,
    "delete": true,
    "delete_dir": true,
    "getattr": true,
    "link": false,
    "lookup": false,
    "open": true,
    "read": true,
    "write": true,
    "rename": true,
    "rename_dir": true,
    "setattr": true,
    "symlink": false
  },
  "filters": {
    "monitor_ads": true,
    "close_with_modification": true,
    "close_without_modification": true,
    "close_with_read": true,

```

```

    "first_read": true,
    "first_write": true,
    "offline_bit": true,
    "open_with_delete_intent": true,
    "open_with_write_intent": true,
    "write_with_size_change": true,
    "setattr_with_owner_change": false,
    "setattr_with_group_change": false,
    "setattr_with_sacl_change": false,
    "setattr_with_dacl_change": false,
    "setattr_with_modify_time_change": false,
    "setattr_with_access_time_change": false,
    "setattr_with_creation_time_change": false,
    "setattr_with_mode_change": false,
    "setattr_with_size_change": false,
    "setattr_with_allocation_size_change": false,
    "exclude_directory": false
  }
}
],
"num_records": 2
}

```

Retrieving a specific FPolicy event configuration for an SVM

```

# The API:
GET /protocols/fpolicy/{svm.uuid}/events/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/events/event_cifs?fields=*&return_records=true&return_timeout=15" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "4f643fb4-fd21-11e8-ae49-0050568e2c1e"
  },
  "name": "event_cifs",
  "protocol": "cifs",
  "volume_monitoring": true,

```



```
"file_operations": {
  "close": true,
  "create": true,
  "create_dir": true,
  "delete": true,
  "delete_dir": true,
  "getattr": true,
  "link": false,
  "lookup": false,
  "open": true,
  "read": true,
  "write": true,
  "rename": true,
  "rename_dir": true,
  "setattr": true,
  "symlink": false
},
"filters": {
  "monitor_ads": true,
  "close_with_modification": true,
  "close_without_modification": true,
  "close_with_read": true,
  "first_read": true,
  "first_write": true,
  "offline_bit": true,
  "open_with_delete_intent": true,
  "open_with_write_intent": true,
  "write_with_size_change": true,
  "setattr_with_owner_change": false,
  "setattr_with_group_change": false,
  "setattr_with_sacl_change": false,
  "setattr_with_dacl_change": false,
  "setattr_with_modify_time_change": false,
  "setattr_with_access_time_change": false,
  "setattr_with_creation_time_change": false,
  "setattr_with_mode_change": false,
  "setattr_with_size_change": false,
  "setattr_with_allocation_size_change": false,
  "exclude_directory": false
}
}
```

Updating a specific FPolicy event configuration for a specified SVM

```
# The API:
PATCH /protocols/fpolicy/{svm.uuid}/events/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/events/event_cifs" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"file_operations\": { \"close\": false, \"create\": false, \"read\": true }, \"filters\": { \"close_with_modification\": false, \"close_with_read\": false, \"close_without_modification\": false }, \"protocol\": \"cifs\", \"volume_monitoring\": false}"
```

Deleting a specific FPolicy event configuration for a specific SVM

```
# The API:
DELETE /protocols/fpolicy/{svm.uuid}/events/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/events/event_cifs" -H "accept: application/json"
```

Retrieve the FPolicy event configuration for all events for an SVM

```
GET /protocols/fpolicy/{svm.uuid}/events
```

Introduced In: 9.6

Retrieves FPolicy event configurations for all events for a specified SVM. ONTAP allows the creation of cluster-level FPolicy events that act as a template for all the data SVMs belonging to the cluster. These cluster-level FPolicy events are also retrieved for the specified SVM.

Related ONTAP commands

- `fpolicy policy event show`

Learn more

- [DOC /protocols/fpolicy/{svm.uuid}/events](#)

Parameters

| Name | Type | In | Required | Description |
|----------------------------|---------|-------|----------|--------------------------------------|
| file_operations.read | boolean | query | False | Filter by file_operations.read |
| file_operations.rename | boolean | query | False | Filter by file_operations.rename |
| file_operations.close | boolean | query | False | Filter by file_operations.close |
| file_operations.symmlink | boolean | query | False | Filter by file_operations.symmlink |
| file_operations.write | boolean | query | False | Filter by file_operations.write |
| file_operations.link | boolean | query | False | Filter by file_operations.link |
| file_operations.delete_dir | boolean | query | False | Filter by file_operations.delete_dir |
| file_operations.lookup | boolean | query | False | Filter by file_operations.lookup |
| file_operations.rename_dir | boolean | query | False | Filter by file_operations.rename_dir |
| file_operations.getattr | boolean | query | False | Filter by file_operations.getattr |
| file_operations.setattr | boolean | query | False | Filter by file_operations.setattr |

| Name | Type | In | Required | Description |
|---|-------------|-----------|-----------------|---|
| file_operations.create_dir | boolean | query | False | Filter by file_operations.create_dir |
| file_operations.delete | boolean | query | False | Filter by file_operations.delete |
| file_operations.open | boolean | query | False | Filter by file_operations.open |
| file_operations.create | boolean | query | False | Filter by file_operations.create |
| protocol | string | query | False | Filter by protocol |
| volume_monitoring | boolean | query | False | Filter by volume_monitoring |
| filters.setattr_with_access_time_change | boolean | query | False | Filter by filters.setattr_with_access_time_change |
| filters.setattr_with_sacl_change | boolean | query | False | Filter by filters.setattr_with_sacl_change |
| filters.setattr_with_size_change | boolean | query | False | Filter by filters.setattr_with_size_change |
| filters.setattr_with_allocation_size_change | boolean | query | False | Filter by filters.setattr_with_allocation_size_change |
| filters.setattr_with_modify_time_change | boolean | query | False | Filter by filters.setattr_with_modify_time_change |
| filters.write_with_size_change | boolean | query | False | Filter by filters.write_with_size_change |

| Name | Type | In | Required | Description |
|---|---------|-------|----------|---|
| filters.setattr_with_mode_change | boolean | query | False | Filter by filters.setattr_with_mode_change |
| filters.monitor_ads | boolean | query | False | Filter by filters.monitor_ads |
| filters.close_with_modification | boolean | query | False | Filter by filters.close_with_modification |
| filters.first_read | boolean | query | False | Filter by filters.first_read |
| filters.setattr_with_owner_change | boolean | query | False | Filter by filters.setattr_with_owner_change |
| filters.first_write | boolean | query | False | Filter by filters.first_write |
| filters.setattr_with_creation_time_change | boolean | query | False | Filter by filters.setattr_with_creation_time_change |
| filters.setattr_with_dacl_change | boolean | query | False | Filter by filters.setattr_with_dacl_change |
| filters.exclude_directory | boolean | query | False | Filter by filters.exclude_directory |
| filters.offline_bit | boolean | query | False | Filter by filters.offline_bit |
| filters.open_with_write_intent | boolean | query | False | Filter by filters.open_with_write_intent |
| filters.setattr_with_group_change | boolean | query | False | Filter by filters.setattr_with_group_change |
| filters.close_without_modification | boolean | query | False | Filter by filters.close_without_modification |

| Name | Type | In | Required | Description |
|---------------------------------|---------------|-------|----------|---|
| filters.close_with_read | boolean | query | False | Filter by filters.close_with_read |
| filters.open_with_delete_intent | boolean | query | False | Filter by filters.open_with_delete_intent |
| name | string | query | False | Filter by name |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |
| 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 |
| 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 |
|----------|---------------|-------|----------|---|
| 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[fpolicy_event] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "name": "event_nfs_close",
    "protocol": "cifs"
  }
}
```

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 | |

file_operations

Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol.

| Name | Type | Description |
|------------|---------|-----------------------------|
| close | boolean | File close operations |
| create | boolean | File create operations |
| create_dir | boolean | Directory create operations |
| delete | boolean | File delete operations |
| delete_dir | boolean | Directory delete operations |
| getattr | boolean | Get attribute operations |
| link | boolean | Link operations |
| lookup | boolean | Lookup operations |
| open | boolean | File open operations |
| read | boolean | File read operations |
| rename | boolean | File rename operations |
| rename_dir | boolean | Directory rename operations |
| setattr | boolean | Set attribute operations |

| Name | Type | Description |
|---------|---------|--------------------------|
| symlink | boolean | Symbolic link operations |
| write | boolean | File write operations |

filters

Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations.

| Name | Type | Description |
|----------------------------|---------|--|
| close_with_modification | boolean | Filter the client request for close with modification. |
| close_with_read | boolean | Filter the client request for close with read. |
| close_without_modification | boolean | Filter the client request for close without modification. |
| exclude_directory | boolean | Filter the client requests for directory operations. When this filter is specified directory operations are not monitored. |
| first_read | boolean | Filter the client requests for the first-read. |
| first_write | boolean | Filter the client requests for the first-write. |
| monitor_ads | boolean | Filter the client request for alternate data stream. |
| offline_bit | boolean | Filter the client request for offline bit set. FPolicy server receives notification only when offline files are accessed. |
| open_with_delete_intent | boolean | Filter the client request for open with delete intent. |
| open_with_write_intent | boolean | Filter the client request for open with write intent. |

| Name | Type | Description |
|-------------------------------------|---------|---|
| setattr_with_access_time_change | boolean | Filter the client setattr requests for changing the access time of a file or directory. |
| setattr_with_allocation_size_change | boolean | Filter the client setattr requests for changing the allocation size of a file. |
| setattr_with_creation_time_change | boolean | Filter the client setattr requests for changing the creation time of a file or directory. |
| setattr_with_dacl_change | boolean | Filter the client setattr requests for changing dacl on a file or directory. |
| setattr_with_group_change | boolean | Filter the client setattr requests for changing group of a file or directory. |
| setattr_with_mode_change | boolean | Filter the client setattr requests for changing the mode bits on a file or directory. |
| setattr_with_modify_time_change | boolean | Filter the client setattr requests for changing the modification time of a file or directory. |
| setattr_with_owner_change | boolean | Filter the client setattr requests for changing owner of a file or directory. |
| setattr_with_sacl_change | boolean | Filter the client setattr requests for changing sacl on a file or directory. |
| setattr_with_size_change | boolean | Filter the client setattr requests for changing the size of a file. |
| write_with_size_change | boolean | Filter the client request for write with size change. |

fpolicy_event

The information that a FPolicy process needs to determine what file access operations to monitor and for which of the monitored events notifications should be sent to the external FPolicy server.

| Name | Type | Description |
|-------------------|---------------------------------|---|
| file_operations | file_operations | Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol. |
| filters | filters | Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations. |
| name | string | Specifies the name of the FPolicy event. |
| protocol | string | Protocol for which event is created. If you specify protocol, then you must also specify a valid value for the file operation parameters. The value of this parameter must be one of the following: <ul style="list-style-type: none"> • cifs - for the CIFS protocol. • nfsv3 - for the NFSv3 protocol. • nfsv4 - for the NFSv4 protocol. |
| volume_monitoring | boolean | Specifies whether volume operation monitoring is required. |

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 the FPolicy event configuration for an SVM

POST /protocols/fpolicy/{svm.uuid}/events

Introduced In: 9.6

Creates an FPolicy event configuration for a specified SVM. FPolicy event creation is allowed only on data SVMs. When a protocol is specified, you must specify a file operation or a file operation and filters.

Required properties

- `svm.uuid` - Existing SVM in which to create the FPolicy event.
- `name` - Name of the FPolicy event.

Recommended optional properties

- `file-operations` - List of file operations to monitor.
- `protocol` - Protocol for which the file operations should be monitored.
- `filters` - List of filters for the specified file operations.

Default property values

If not specified in POST, the following default property values are assigned:

- `file_operations.*` - *false*
- `filters.*` - *false*
- `volume-monitoring` - *false*

Related ONTAP commands

- `fpolicy policy event create`

Learn more

- [DOC /protocols/fpolicy/{svm.uuid}/events](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. <ul style="list-style-type: none">• Default value: |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Request Body

| Name | Type | Description |
|-----------------|---------------------------------|---|
| file_operations | file_operations | Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol. |
| filters | filters | Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations. |
| name | string | Specifies the name of the FPolicy event. |
| protocol | string | Protocol for which event is created. If you specify protocol, then you must also specify a valid value for the file operation parameters. The value of this parameter must be one of the following: <ul style="list-style-type: none">• cifs - for the CIFS protocol.• nfsv3 - for the NFSv3 protocol.• nfsv4 - for the NFSv4 protocol. |

| Name | Type | Description |
|-------------------|---------|--|
| volume_monitoring | boolean | Specifies whether volume operation monitoring is required. |

Example request

```
{
  "name": "event_nfs_close",
  "protocol": "cifs"
}
```

Response

Status: 201, Created

| Name | Type | Description |
|-------------|----------------------|-------------------|
| _links | _links | |
| num_records | integer | Number of records |
| records | array[fpolicy_event] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "name": "event_nfs_close",
    "protocol": "cifs"
  }
}
```

Error

Status: Default

| Error Code | Description |
|------------|--|
| 9764929 | The file operation is not supported by the protocol |
| 9764955 | The filter is not supported by the protocol |
| 9764930 | The filter is not supported by any of the file operations |
| 9764946 | The protocol is specified without a file operation or a file operation and filter pair |

| 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

file_operations

Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol.

| Name | Type | Description |
|------------|---------|-----------------------------|
| close | boolean | File close operations |
| create | boolean | File create operations |
| create_dir | boolean | Directory create operations |
| delete | boolean | File delete operations |
| delete_dir | boolean | Directory delete operations |
| getattr | boolean | Get attribute operations |
| link | boolean | Link operations |
| lookup | boolean | Lookup operations |
| open | boolean | File open operations |
| read | boolean | File read operations |
| rename | boolean | File rename operations |
| rename_dir | boolean | Directory rename operations |
| setattr | boolean | Set attribute operations |
| symlink | boolean | Symbolic link operations |
| write | boolean | File write operations |

filters

Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations.

| Name | Type | Description |
|-------------------------------------|-------------|--|
| close_with_modification | boolean | Filter the client request for close with modification. |
| close_with_read | boolean | Filter the client request for close with read. |
| close_without_modification | boolean | Filter the client request for close without modification. |
| exclude_directory | boolean | Filter the client requests for directory operations. When this filter is specified directory operations are not monitored. |
| first_read | boolean | Filter the client requests for the first-read. |
| first_write | boolean | Filter the client requests for the first-write. |
| monitor_ads | boolean | Filter the client request for alternate data stream. |
| offline_bit | boolean | Filter the client request for offline bit set. FPolicy server receives notification only when offline files are accessed. |
| open_with_delete_intent | boolean | Filter the client request for open with delete intent. |
| open_with_write_intent | boolean | Filter the client request for open with write intent. |
| setattr_with_access_time_change | boolean | Filter the client setattr requests for changing the access time of a file or directory. |
| setattr_with_allocation_size_change | boolean | Filter the client setattr requests for changing the allocation size of a file. |
| setattr_with_creation_time_change | boolean | Filter the client setattr requests for changing the creation time of a file or directory. |

| Name | Type | Description |
|---------------------------------|---------|---|
| setattr_with_dacl_change | boolean | Filter the client setattr requests for changing dacl on a file or directory. |
| setattr_with_group_change | boolean | Filter the client setattr requests for changing group of a file or directory. |
| setattr_with_mode_change | boolean | Filter the client setattr requests for changing the mode bits on a file or directory. |
| setattr_with_modify_time_change | boolean | Filter the client setattr requests for changing the modification time of a file or directory. |
| setattr_with_owner_change | boolean | Filter the client setattr requests for changing owner of a file or directory. |
| setattr_with_sacl_change | boolean | Filter the client setattr requests for changing sacl on a file or directory. |
| setattr_with_size_change | boolean | Filter the client setattr requests for changing the size of a file. |
| write_with_size_change | boolean | Filter the client request for write with size change. |

fpolicy_event

The information that a FPolicy process needs to determine what file access operations to monitor and for which of the monitored events notifications should be sent to the external FPolicy server.

| Name | Type | Description |
|-----------------|---------------------------------|--|
| file_operations | file_operations | Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol. |

| Name | Type | Description |
|-------------------|-------------------------|---|
| filters | filters | Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations. |
| name | string | Specifies the name of the FPolicy event. |
| protocol | string | Protocol for which event is created. If you specify protocol, then you must also specify a valid value for the file operation parameters. The value of this parameter must be one of the following: <ul style="list-style-type: none"> • cifs - for the CIFS protocol. • nfsv3 - for the NFSv3 protocol. • nfsv4 - for the NFSv4 protocol. |
| volume_monitoring | boolean | Specifies whether volume operation monitoring is required. |

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| 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. |

Delete a specific FPolicy event configuration for an SVM

DELETE /protocols/fpolicy/{svm.uuid}/events/{name}

Introduced In: 9.6

Deletes a specific FPolicy event configuration for an SVM. A cluster-level FPolicy event configuration cannot be modified for a data SVM through REST. An FPolicy event that is attached to an FPolicy policy cannot be deleted.

Related ONTAP commands

- `fpolicy policy event delete`

Learn more

- [DOC /protocols/fpolicy/{svm.uuid}/events](#)

Parameters

| Name | Type | In | Required | Description |
|----------|--------|------|----------|---|
| name | string | path | True | |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Response

Status: 200, Ok

Error

Status: Default

| Error Code | Description |
|------------|--|
| 9764874 | The FPolicy event is a cluster event |
| 9764947 | The FPolicy event is attached to an FPolicy policy |

| 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 a specific FPolicy event configuration for an SVM

```
GET /protocols/fpolicy/{svm.uuid}/events/{name}
```

Introduced In: 9.6

Retrieves a specific FPolicy event configuration for an SVM. A cluster-level FPolicy event configuration cannot be retrieved for a data SVM through a REST API.

Related ONTAP commands

- `fpolicy policy event show`

Learn more

- [DOC /protocols/fpolicy/{svm.uuid}/events](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|-------------|
| name | string | path | True | |

| Name | Type | In | Required | Description |
|----------|---------------|-------|----------|---|
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------------|---------------------------------|---|
| file_operations | file_operations | Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol. |
| filters | filters | Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations. |
| name | string | Specifies the name of the FPolicy event. |
| protocol | string | Protocol for which event is created. If you specify protocol, then you must also specify a valid value for the file operation parameters. The value of this parameter must be one of the following: <ul style="list-style-type: none"> • cifs - for the CIFS protocol. • nfsv3 - for the NFSv3 protocol. • nfsv4 - for the NFSv4 protocol. |
| volume_monitoring | boolean | Specifies whether volume operation monitoring is required. |

Example response

```
{
  "name": "event_nfs_close",
  "protocol": "cifs"
}
```

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

file_operations

Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol.

| Name | Type | Description |
|------------|---------|-----------------------------|
| close | boolean | File close operations |
| create | boolean | File create operations |
| create_dir | boolean | Directory create operations |
| delete | boolean | File delete operations |
| delete_dir | boolean | Directory delete operations |
| getattr | boolean | Get attribute operations |
| link | boolean | Link operations |
| lookup | boolean | Lookup operations |
| open | boolean | File open operations |
| read | boolean | File read operations |
| rename | boolean | File rename operations |
| rename_dir | boolean | Directory rename operations |
| setattr | boolean | Set attribute operations |
| symlink | boolean | Symbolic link operations |
| write | boolean | File write operations |

filters

Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations.

| Name | Type | Description |
|-------------------------------------|-------------|--|
| close_with_modification | boolean | Filter the client request for close with modification. |
| close_with_read | boolean | Filter the client request for close with read. |
| close_without_modification | boolean | Filter the client request for close without modification. |
| exclude_directory | boolean | Filter the client requests for directory operations. When this filter is specified directory operations are not monitored. |
| first_read | boolean | Filter the client requests for the first-read. |
| first_write | boolean | Filter the client requests for the first-write. |
| monitor_ads | boolean | Filter the client request for alternate data stream. |
| offline_bit | boolean | Filter the client request for offline bit set. FPolicy server receives notification only when offline files are accessed. |
| open_with_delete_intent | boolean | Filter the client request for open with delete intent. |
| open_with_write_intent | boolean | Filter the client request for open with write intent. |
| setattr_with_access_time_change | boolean | Filter the client setattr requests for changing the access time of a file or directory. |
| setattr_with_allocation_size_change | boolean | Filter the client setattr requests for changing the allocation size of a file. |
| setattr_with_creation_time_change | boolean | Filter the client setattr requests for changing the creation time of a file or directory. |

| Name | Type | Description |
|---------------------------------|---------|---|
| setattr_with_dacl_change | boolean | Filter the client setattr requests for changing dacl on a file or directory. |
| setattr_with_group_change | boolean | Filter the client setattr requests for changing group of a file or directory. |
| setattr_with_mode_change | boolean | Filter the client setattr requests for changing the mode bits on a file or directory. |
| setattr_with_modify_time_change | boolean | Filter the client setattr requests for changing the modification time of a file or directory. |
| setattr_with_owner_change | boolean | Filter the client setattr requests for changing owner of a file or directory. |
| setattr_with_sacl_change | boolean | Filter the client setattr requests for changing sacl on a file or directory. |
| setattr_with_size_change | boolean | Filter the client setattr requests for changing the size of a file. |
| write_with_size_change | boolean | Filter the client request for write with size change. |

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. |

Update a specific FPolicy event configuration for an SVM

PATCH /protocols/fpolicy/{svm.uuid}/events/{name}

Introduced In: 9.6

Updates a specific FPolicy event configuration for an SVM. A cluster-level FPolicy event configuration cannot be modified for a data SVM through REST. When the file operations and filters fields are modified, the previous values are retained and new values are added to the list of previous values. To remove a particular file operation or filter, set its value to false in the request.

Related ONTAP commands

- `fpolicy policy event modify`

Learn more

- [DOC /protocols/fpolicy/{svm.uuid}/events](#)

Parameters

| Name | Type | In | Required | Description |
|----------|--------|------|----------|---|
| name | string | path | True | |
| svm.uuid | string | path | True | UUID of the SVM to which this object belongs. |

Request Body

| Name | Type | Description |
|-----------------|---------------------------------|--|
| file_operations | file_operations | Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol. |

| Name | Type | Description |
|-------------------|-------------------------|---|
| filters | filters | Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations. |
| name | string | Specifies the name of the FPolicy event. |
| protocol | string | Protocol for which event is created. If you specify protocol, then you must also specify a valid value for the file operation parameters. The value of this parameter must be one of the following: <ul style="list-style-type: none"> • cifs - for the CIFS protocol. • nfsv3 - for the NFSv3 protocol. • nfsv4 - for the NFSv4 protocol. |
| volume_monitoring | boolean | Specifies whether volume operation monitoring is required. |

Example request

```
{
  "name": "event_nfs_close",
  "protocol": "cifs"
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

| Error Code | Description |
|------------|--|
| 9764873 | The event is a cluster event |
| 9764929 | The file operation is not supported by the protocol |
| 9764955 | The filter is not supported by the protocol |
| 9764930 | The filter is not supported by any of the file operations |
| 9764946 | The protocol is specified without file operation or a file operation and filter pair |

| 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

file_operations

Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol.

| Name | Type | Description |
|------------|---------|-----------------------------|
| close | boolean | File close operations |
| create | boolean | File create operations |
| create_dir | boolean | Directory create operations |
| delete | boolean | File delete operations |
| delete_dir | boolean | Directory delete operations |
| getattr | boolean | Get attribute operations |
| link | boolean | Link operations |
| lookup | boolean | Lookup operations |
| open | boolean | File open operations |
| read | boolean | File read operations |
| rename | boolean | File rename operations |
| rename_dir | boolean | Directory rename operations |
| setattr | boolean | Set attribute operations |
| symlink | boolean | Symbolic link operations |
| write | boolean | File write operations |

filters

Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations.

| Name | Type | Description |
|-------------------------------------|-------------|--|
| close_with_modification | boolean | Filter the client request for close with modification. |
| close_with_read | boolean | Filter the client request for close with read. |
| close_without_modification | boolean | Filter the client request for close without modification. |
| exclude_directory | boolean | Filter the client requests for directory operations. When this filter is specified directory operations are not monitored. |
| first_read | boolean | Filter the client requests for the first-read. |
| first_write | boolean | Filter the client requests for the first-write. |
| monitor_ads | boolean | Filter the client request for alternate data stream. |
| offline_bit | boolean | Filter the client request for offline bit set. FPolicy server receives notification only when offline files are accessed. |
| open_with_delete_intent | boolean | Filter the client request for open with delete intent. |
| open_with_write_intent | boolean | Filter the client request for open with write intent. |
| setattr_with_access_time_change | boolean | Filter the client setattr requests for changing the access time of a file or directory. |
| setattr_with_allocation_size_change | boolean | Filter the client setattr requests for changing the allocation size of a file. |
| setattr_with_creation_time_change | boolean | Filter the client setattr requests for changing the creation time of a file or directory. |

| Name | Type | Description |
|---------------------------------|---------|---|
| setattr_with_dacl_change | boolean | Filter the client setattr requests for changing dacl on a file or directory. |
| setattr_with_group_change | boolean | Filter the client setattr requests for changing group of a file or directory. |
| setattr_with_mode_change | boolean | Filter the client setattr requests for changing the mode bits on a file or directory. |
| setattr_with_modify_time_change | boolean | Filter the client setattr requests for changing the modification time of a file or directory. |
| setattr_with_owner_change | boolean | Filter the client setattr requests for changing owner of a file or directory. |
| setattr_with_sacl_change | boolean | Filter the client setattr requests for changing sacl on a file or directory. |
| setattr_with_size_change | boolean | Filter the client setattr requests for changing the size of a file. |
| write_with_size_change | boolean | Filter the client request for write with size change. |

fpolicy_event

The information that a FPolicy process needs to determine what file access operations to monitor and for which of the monitored events notifications should be sent to the external FPolicy server.

| Name | Type | Description |
|-----------------|---------------------------------|--|
| file_operations | file_operations | Specifies the file operations for the FPolicy event. You must specify a valid protocol in the protocol parameter. The event will check the operations specified from all client requests using the protocol. |

| Name | Type | Description |
|-------------------|-------------------------|---|
| filters | filters | Specifies the list of filters for a given file operation for the specified protocol. When you specify the filters, you must specify the valid protocols and a valid file operations. |
| name | string | Specifies the name of the FPolicy event. |
| protocol | string | Protocol for which event is created. If you specify protocol, then you must also specify a valid value for the file operation parameters. The value of this parameter must be one of the following: <ul style="list-style-type: none"> • cifs - for the CIFS protocol. • nfsv3 - for the NFSv3 protocol. • nfsv4 - for the NFSv4 protocol. |
| volume_monitoring | boolean | Specifies whether volume operation monitoring is required. |

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. |

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