



Manage FPolicy configuration

REST API reference

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Manage FPolicy configuration

Protocols fpolicy endpoint overview

Overview

FPolicy is an infrastructure component of ONTAP that enables partner applications to connect to ONTAP in order to monitor and set file access permissions. Every time a client accesses a file from a storage system, based on the configuration of FPolicy, the partner application is notified about file access. This enables partners to set restrictions on files that are created or accessed on the storage system. FPolicy also allows you to create file policies that specify file operation permissions according to file type. For example, you can restrict certain file types, such as .jpeg and .mp3 files, from being stored on the storage system. FPolicy can monitor file access from CIFS and NFS clients.

As part of FPolicy configuration, you can specify an FPolicy engine which defines the external FPolicy server, FPolicy events, which defines the protocol and file operations to monitor and the FPolicy policy that acts as a container for the FPolicy engine and FPolicy events. It provides a way for policy management functions, such as policy enabling and disabling.

Examples

Creating an FPolicy configuration

To create an FPolicy for an SVM use the following API. Note that the *return_records=true* query parameter is used to obtain the newly created entry in the response.

```
# The API:  
POST /protocols/fpolicy/  
  
#The call:  
curl -X POST "https://<mgmt-ip>/api/protocols/fpolicy?return_records=true"  
-H "accept: application/json" -H "Content-Type: application/json" -d "{  
\"engines\": [ { \"name\": \"engine1\", \"port\": 9876,  
\"primary_servers\": [ \"10.132.145.22\", \"10.140.101.109\" ],  
\"secondary_servers\": [ \"10.132.145.20\", \"10.132.145.21\" ], \"type\":  
\"synchronous\" } ], \"events\": [ { \"file_operations\": { \"read\":  
true, \"write\": true }, \"filters\": { \"monitor_ads\": true }, \"name\":  
\"event_cifs\", \"protocol\": \"cifs\", \"volume_monitoring\": true } ],  
\"policies\": [ { \"engine\": { \"name\": \"engine1\" }, \"events\": [ {  
\"name\": \"event_cifs\" } ], \"mandatory\": true, \"name\": \"pol0\",  
\"priority\": 1, \"scope\": { \"include_volumes\": [ \"vol1\" ] } } ],  
\"svm\": { \"name\": \"vs1\", \"uuid\": \"b34f5e3d-01d0-11e9-8f63-  
0050568ea311\" } }"  
  
# The response:  
{  
\"num_records\": 1,  
\"records\": [  
]
```

```
{
  "svm": {
    "uuid": "b34f5e3d-01d0-11e9-8f63-0050568ea311",
    "name": "vs1"
  },
  "engines": [
    {
      "name": "engine1",
      "primary_servers": [
        "10.132.145.22",
        "10.140.101.109"
      ],
      "secondary_servers": [
        "10.132.145.20",
        "10.132.145.21"
      ],
      "type": "synchronous",
      "port": 9876
    }
  ],
  "events": [
    {
      "name": "event_cifs",
      "protocol": "cifs",
      "volume_monitoring": true,
      "file_operations": {
        "read": true,
        "write": true
      },
      "filters": {
        "monitor_ads": true
      }
    }
  ],
  "policies": [
    {
      "name": "pol0",
      "priority": 1,
      "events": [
        {
          "name": "event_cifs"
        }
      ],
      "engine": {
        "name": "engine1"
      }
    }
  ]
}
```

```

    "scope": {
        "include_volumes": [
            "vol1"
        ],
        "mandatory": true
    }
}
]
}

```

Retrieving the FPolicy configuration for all the SVMs in the cluster

```

# The API:
GET /protocols/fpolicy

# The call:
curl -X GET "https://<mgmt-
ip>/api/protocols/fpolicy?fields=*&return_records=true&return_timeout=15"
-H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "b34f5e3d-01d0-11e9-8f63-0050568ea311",
        "name": "vs1"
      },
      "engines": [
        {
          "name": "engine1",
          "primary_servers": [
            "10.132.145.22",
            "10.140.101.109"
          ],
          "secondary_servers": [
            "10.132.145.20",
            "10.132.145.21"
          ],
          "type": "synchronous",
        }
      ]
    }
  ]
}

```

```
        "port": 9876
    }
],
"events": [
{
    "name": "event_cifs",
    "protocol": "cifs",
    "volume_monitoring": true,
    "file_operations": {
        "close": false,
        "create": false,
        "create_dir": false,
        "delete": false,
        "delete_dir": false,
        "getattr": false,
        "link": false,
        "lookup": false,
        "open": false,
        "read": true,
        "write": true,
        "rename": false,
        "rename_dir": false,
        "setattr": false,
        "symlink": false
    },
    "filters": {
        "monitor_ads": true,
        "close_with_modification": false,
        "close_without_modification": false,
        "close_with_read": false,
        "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
    }
}
],
"policies": [
{
    "name": "pol0",
    "enabled": true,
    "priority": 1,
    "events": [
    {
        "name": "event_cifs"
    }
],
"engine": {
    "name": "engine1"
},
"scope": {
    "include_volumes": [
        "vol1"
    ]
},
"mandatory": true,
"passthrough_read": false
}
]
}
],
"num_records": 1
}

```

Retrieving an FPolicy configuration for a particular SVM

```

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

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/fpolicy/b34f5e3d-01d0-11e9-
8f63-0050568ea311?fields=&return_records=true&return_timeout=15" -H
"accept: application/json"

# The response:

```

```
{
  "svm": {
    "uuid": "b34f5e3d-01d0-11e9-8f63-0050568ea311",
    "name": "vs1"
  },
  "engines": [
    {
      "name": "engine1",
      "primary_servers": [
        "10.132.145.22",
        "10.140.101.109"
      ],
      "secondary_servers": [
        "10.132.145.20",
        "10.132.145.21"
      ],
      "type": "synchronous",
      "port": 9876
    }
  ],
  "events": [
    {
      "name": "event_cifs",
      "protocol": "cifs",
      "volume_monitoring": true,
      "file_operations": {
        "close": false,
        "create": false,
        "create_dir": false,
        "delete": false,
        "delete_dir": false,
        "getattr": false,
        "link": false,
        "lookup": false,
        "open": false,
        "read": true,
        "write": true,
        "rename": false,
        "rename_dir": false,
        "setattr": false,
        "symlink": false
      },
      "filters": {
        "monitor_ads": true,
        "close_with_modification": false,
        "close_without_modification": false,
        "close_if_no_modification": false
      }
    }
  ]
}
```

```

        "close_with_read": false,
        "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
    }
}
],
"policies": [
{
    "name": "pol0",
    "enabled": true,
    "priority": 1,
    "events": [
        {
            "name": "event_cifs"
        }
    ],
    "engine": {
        "name": "engine1"
    },
    "scope": {
        "include_volumes": [
            "vol1"
        ]
    },
    "mandatory": true,
    "passthrough_read": false
}
]
}

```

Deleting an FPolicy configuration for a particular SVM

```
# The API:  
DELETE /protocols/fpolicy/{svm.uuid}  
  
# The call:  
curl -X DELETE "https://<mgmt-ip>/api/protocols/fpolicy/b34f5e3d-01d0-  
11e9-8f63-0050568ea311" -H "accept: application/json"
```

Retrieve an FPolicy configuration

GET /protocols/fpolicy

Introduced In: 9.6

Retrieves an FPolicy configuration.

Related ONTAP commands

- `fpolicy show`
- `fpolicy policy show`
- `fpolicy policy scope show`
- `fpolicy policy event show`
- `fpolicy policy external-engine show`

Learn more

- [DOC /protocols/fpolicy](#)

Parameters

Name	Type	In	Required	Description
<code>engines.secondary_servers</code>	string	query	False	Filter by engines.secondary_servers
<code>engines.name</code>	string	query	False	Filter by engines.name
<code>engines.port</code>	integer	query	False	Filter by engines.port

Name	Type	In	Required	Description
engines.primary_servers	string	query	False	Filter by engines.primary_servers
engines.type	string	query	False	Filter by engines.type
policies.events.name	string	query	False	Filter by policies.events.name
policies.name	string	query	False	Filter by policies.name
policies.engine.name	string	query	False	Filter by policies.engine.name
policies.scope.included_shares	string	query	False	Filter by policies.scope.included_shares
policies.scope.exclude_extension	string	query	False	Filter by policies.scope.exclude_extension
policies.scope.exclude_shares	string	query	False	Filter by policies.scope.exclude_shares
policies.scope.exclude_volumes	string	query	False	Filter by policies.scope.exclude_volumes
policies.scope.exclude_export_policies	string	query	False	Filter by policies.scope.exclude_export_policies
policies.scope.included_extension	string	query	False	Filter by policies.scope.included_extension
policies.scope.included_volumes	string	query	False	Filter by policies.scope.included_volumes

Name	Type	In	Required	Description
policies.scope.include_export_policies	string	query	False	Filter by policies.scope.include_export_policies
policies.mandatory	boolean	query	False	Filter by policies.mandatory
policies.enabled	boolean	query	False	Filter by policies.enabled
policies.priority	integer	query	False	Filter by policies.priority
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
events.volume_monitoring	boolean	query	False	Filter by events.volume_monitoring
events.protocol	string	query	False	Filter by events.protocol
events.name	string	query	False	Filter by events.name
events.filters.setattr_with_group_change	boolean	query	False	Filter by events.filters.setattr_with_group_change
events.filters.setattr_with_size_change	boolean	query	False	Filter by events.filters.setattr_with_size_change
events.filters.first_read	boolean	query	False	Filter by events.filters.first_read
events.filters.close_with_read	boolean	query	False	Filter by events.filters.close_with_read
events.filters.setattr_with_owner_change	boolean	query	False	Filter by events.filters.setattr_with_owner_change

Name	Type	In	Required	Description
events.filters.open_with_write_intent	boolean	query	False	Filter by events.filters.open_with_write_intent
events.filters setattr_with_modify_time_change	boolean	query	False	Filter by events.filters setattr_with_modify_time_change
events.filters setattr_with_allocation_size_change	boolean	query	False	Filter by events.filters setattr_with_allocation_size_change
events.filters.write_with_size_change	boolean	query	False	Filter by events.filters.write_with_size_change
events.filters.close_without_modification	boolean	query	False	Filter by events.filters.close_without_modification
events.filters setattr_with_mode_change	boolean	query	False	Filter by events.filters setattr_with_mode_change
events.filters.close_with_modification	boolean	query	False	Filter by events.filters.close_with_modification
events.filters.exclude_directory	boolean	query	False	Filter by events.filters.exclude_directory
events.filters.offline_bit	boolean	query	False	Filter by events.filters.offline_bit
events.filters setattr_with_dacl_change	boolean	query	False	Filter by events.filters setattr_with_dacl_change
events.filters setattr_with_access_time_change	boolean	query	False	Filter by events.filters setattr_with_access_time_change

Name	Type	In	Required	Description
events.filters.setattr_with_sacl_change	boolean	query	False	Filter by events.filters.setattr_with_sacl_change
events.filters.open_with_delete_intent	boolean	query	False	Filter by events.filters.open_with_delete_intent
events.filters.monitor_ads	boolean	query	False	Filter by events.filters.monitor_ads
events.filters.first_write	boolean	query	False	Filter by events.filters.first_write
events.filters.setattr_with_creation_time_change	boolean	query	False	Filter by events.filters.setattr_with_creation_time_change
events.file_operations.link	boolean	query	False	Filter by events.file_operations.link
events.file_operations.write	boolean	query	False	Filter by events.file_operations.write
events.file_operations.rename	boolean	query	False	Filter by events.file_operations.rename
events.file_operations.delete_dir	boolean	query	False	Filter by events.file_operations.delete_dir
events.file_operations.delete	boolean	query	False	Filter by events.file_operations.delete
events.file_operations.setattr	boolean	query	False	Filter by events.file_operations.setattr

Name	Type	In	Required	Description
events.file_operation.s.close	boolean	query	False	Filter by events.file_operation.s.close
events.file_operation.s.open	boolean	query	False	Filter by events.file_operation.s.open
events.file_operation.s.create_dir	boolean	query	False	Filter by events.file_operation.s.create_dir
events.file_operation.s.rename_dir	boolean	query	False	Filter by events.file_operation.s.rename_dir
events.file_operation.s.create	boolean	query	False	Filter by events.file_operation.s.create
events.file_operation.s.read	boolean	query	False	Filter by events.file_operation.s.read
events.file_operation.s.getattr	boolean	query	False	Filter by events.file_operation.s.getattr
events.file_operation.s.lookup	boolean	query	False	Filter by events.file_operation.s.lookup
events.file_operation.s.symlink	boolean	query	False	Filter by events.file_operation.s.symlink
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_records	boolean	query	False	<p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> • Default value: 1
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
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]	

Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "records": [  
    {  
      "_links": {  
        "self": {  
          "href": "/api/resourcelink"  
        }  
      },  
      "engines": [  
        {  
          "name": "fp_ex_eng",  
          "port": 9876,  
          "primary_servers": [  
            "10.132.145.20",  
            "10.140.101.109"  
          ],  
          "secondary_servers": [  
            "10.132.145.20",  
            "10.132.145.21"  
          ],  
          "type": "string"  
        }  
      ],  
      "events": [  
        {  
          "name": "event_nfs_close",  
          "protocol": "string"  
        }  
      ],  
      "policies": [  
        {  
          "engine": {  
            "_links": {  
              "self": {  
                "href": "/api/resourcelink"  
              }  
            }  
          }  
        }  
      ]  
    }  
  ]  
}
```

```

        },
        "name": "string"
    },
    "events": [
        "event_nfs_close",
        "event_open"
    ],
    "name": "fp_policy_1",
    "scope": {
        "exclude_export_policies": [
            "string"
        ],
        "exclude_extension": [
            "string"
        ],
        "exclude_shares": [
            "string"
        ],
        "exclude_volumes": [
            "vol1",
            "vol_svml",
            "*"
        ],
        "include_export_policies": [
            "string"
        ],
        "include_extension": [
            "string"
        ],
        "include_shares": [
            "sh1",
            "share_cifs"
        ],
        "include_volumes": [
            "vol1",
            "vol_svml"
        ]
    }
},
"svm": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },

```

```

        "name": "svml",
        "uuid": "02c9e252-41be-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	

fpolicy_engines

The engine defines how ONTAP makes and manages connections to external FPolicy servers.

Name	Type	Description
name	string	Specifies the name to assign to the external server configuration.
port	integer	Port number of the FPolicy server application.
primary_servers	array[string]	
secondary_servers	array[string]	

Name	Type	Description
type	string	<p>The notification mode determines what ONTAP does after sending notifications to FPolicy servers. The possible values are:</p> <ul style="list-style-type: none"> • synchronous - After sending a notification, wait for a response from the FPolicy server. • asynchronous - After sending a notification, file request processing continues. <ul style="list-style-type: none"> ◦ Default value: 1 ◦ enum: ["synchronous", "asynchronous"] ◦ Introduced in: 9.10

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

Name	Type	Description
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.

Name	Type	Description
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.
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_events

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.

`fpolicy_engine_reference`

FPolicy external engine

Name	Type	Description
<code>_links</code>	_links	
name	string	The name of the FPolicy external engine.

fpolicy_event_reference

FPolicy events

Name	Type	Description
_links	_links	
name	string	

scope

Name	Type	Description
exclude_export_policies	array[string]	
exclude_extension	array[string]	
exclude_shares	array[string]	
exclude_volumes	array[string]	
include_export_policies	array[string]	
include_extension	array[string]	
include_shares	array[string]	
include_volumes	array[string]	

fpolicy_policies

Name	Type	Description
enabled	boolean	Specifies if the policy is enabled on the SVM or not. If no value is mentioned for this field but priority is set, then this policy will be enabled.
engine	fpolicy_engine_reference	FPolicy external engine
events	array[fpolicy_event_reference]	
mandatory	boolean	Specifies what action to take on a file access event in a case when all primary and secondary servers are down or no response is received from the FPolicy servers within a given timeout period. When this parameter is set to true, file access events will be denied under these circumstances.
name	string	Specifies the name of the policy.

Name	Type	Description
priority	integer	Specifies the priority that is assigned to this policy.
scope	scope	

svm

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

fpolicy

FPolicy is an infrastructure component of ONTAP that enables partner applications connected to your storage systems to monitor and set file access permissions. Every time a client accesses a file from a storage system, based on the configuration of FPolicy, the partner application is notified about file access.

Name	Type	Description
_links	_links	
engines	array[fpolicy_engines]	
events	array[fpolicy_events]	
policies	array[fpolicy_policies]	
svm	svm	

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.

Create an FPolicy configuration

POST /protocols/fpolicy

Introduced In: 9.6

Creates an FPolicy configuration.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the FPolicy configuration.

Recommended optional properties

- `engines` - External server to which the notifications will be sent.
- `events` - File operations to monitor.
- `policies` - Policy configuration which acts as a container for FPolicy event and FPolicy engine.
- `scope` - Scope of the policy. Can be limited to exports, volumes, shares or file extensions.

Default property values

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

- `engines.type` - `synchronous`
- `policies.engine` - `native`
- `policies.mandatory` - `true`
- `events.volume_monitoring` - `false`
- `events.file_operations.*` - `false`
- `events.filters.*` - `false`

Related ONTAP commands

- `fpolicy policy event create`
- `fpolicy policy external-engine create`
- `fpolicy policy create`
- `fpolicy policy scope create`
- `fpolicy enable`

Learn more

- [DOC /protocols/fpolicy](#)

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none">• Default value:

Request Body

Name	Type	Description
engines	array[fpolicy_engines]	
events	array[fpolicy_events]	
policies	array[fpolicy_policies]	
svm	svm	

Example request

```
{  
  "engines": [  
    {  
      "name": "fp_ex_eng",  
      "port": 9876,  
      "primary_servers": [  
        "10.132.145.20",  
        "10.140.101.109"  
      ],  
      "secondary_servers": [  
        "10.132.145.20",  
        "10.132.145.21"  
      ],  
      "type": "string"  
    }  
  ],  
  "events": [  
    {  
      "name": "event_nfs_close",  
      "protocol": "string"  
    }  
  ],  
  "policies": [  
    {  
      "enabled": null,  
      "engine": {  
        "name": "string"  
      },  
      "events": [  
        "event_nfs_close",  
        "event_open"  
      ],  
      "name": "fp_policy_1",  
      "scope": {  
        "exclude_export_policies": [  
          "string"  
        ],  
        "exclude_extension": [  
          "string"  
        ],  
        "exclude_shares": [  
          "string"  
        ],  
        "exclude_volumes": [  
          "string"  
        ]  
      }  
    }  
  ]  
}
```

```

    "vol1",
    "vol_svm1",
    "*"
],
"include_export_policies": [
    "string"
],
"include_extension": [
    "string"
],
"include_shares": [
    "sh1",
    "share_cifs"
],
"include_volumes": [
    "vol1",
    "vol_svm1"
]
}
}
],
"svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}
}

```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of records
records	array[fpolicy]	

Example response

```
{  
  "records": [  
    {  
      "engines": [  
        {  
          "name": "fp_ex_eng",  
          "port": 9876,  
          "primary_servers": [  
            "10.132.145.20",  
            "10.140.101.109"  
          ],  
          "secondary_servers": [  
            "10.132.145.20",  
            "10.132.145.21"  
          ],  
          "type": "string"  
        }  
      ],  
      "events": [  
        {  
          "name": "event_nfs_close",  
          "protocol": "string"  
        }  
      ],  
      "policies": [  
        {  
          "enabled": null,  
          "engine": {  
            "name": "string"  
          },  
          "events": [  
            "event_nfs_close",  
            "event_open"  
          ],  
          "name": "fp_policy_1",  
          "scope": {  
            "exclude_export_policies": [  
              "string"  
            ],  
            "exclude_extension": [  
              "string"  
            ],  
            "exclude_shares": [  
              "string"  
            ]  
          }  
        }  
      ]  
    }  
  ]  
}
```

```

        ],
        "exclude_volumes": [
            "vol1",
            "vol_svm1",
            "*"
        ],
        "include_export_policies": [
            "string"
        ],
        "include_extension": [
            "string"
        ],
        "include_shares": [
            "sh1",
            "share_cifs"
        ],
        "include_volumes": [
            "vol1",
            "vol_svm1"
        ]
    }
}
],
"svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}
]
}

```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
9765032	The FPolicy engine, FPolicy event or FPolicy policy specified already exists
9765031	If any of the FPolicy engine, FPolicy event, or FPolicy policy creation fails due to a systematic error or hardware failure, the cause of the failure is detailed in the error message

Error Code	Description
2621706	The SVM UUID specified belongs to different SVM
2621462	The SVM name specified does not exist

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

fpolicy_engines

The engine defines how ONTAP makes and manages connections to external FPolicy servers.

Name	Type	Description
name	string	Specifies the name to assign to the external server configuration.
port	integer	Port number of the FPolicy server application.
primary_servers	array[string]	
secondary_servers	array[string]	
type	string	<p>The notification mode determines what ONTAP does after sending notifications to FPolicy servers. The possible values are:</p> <ul style="list-style-type: none">• synchronous - After sending a notification, wait for a response from the FPolicy server.• asynchronous - After sending a notification, file request processing continues.<ul style="list-style-type: none">◦ Default value: 1◦ enum: ["synchronous", "asynchronous"]◦ Introduced in: 9.10

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

Name	Type	Description
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.

Name	Type	Description
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.
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.

Name	Type	Description
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_events

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.

Name	Type	Description
protocol	string	<p>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:</p> <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.

fpolicy_engine_reference

FPolicy external engine

Name	Type	Description
name	string	The name of the FPolicy external engine.

fpolicy_event_reference

FPolicy events

Name	Type	Description
name	string	

scope

Name	Type	Description
exclude_export_policies	array[string]	
exclude_extension	array[string]	
exclude_shares	array[string]	
exclude_volumes	array[string]	
include_export_policies	array[string]	
include_extension	array[string]	
include_shares	array[string]	

Name	Type	Description
include_volumes	array[string]	

fpolicy_policies

Name	Type	Description
engine	fpolicy_engine_reference	FPolicy external engine
events	array[fpolicy_event_reference]	
mandatory	boolean	Specifies what action to take on a file access event in a case when all primary and secondary servers are down or no response is received from the FPolicy servers within a given timeout period. When this parameter is set to true, file access events will be denied under these circumstances.
name	string	Specifies the name of the policy.
priority	integer	Specifies the priority that is assigned to this policy.
scope	scope	

svm

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

fpolicy

FPolicy is an infrastructure component of ONTAP that enables partner applications connected to your storage systems to monitor and set file access permissions. Every time a client accesses a file from a storage system, based on the configuration of FPolicy, the partner application is notified about file access.

Name	Type	Description
engines	array[fpolicy_engines]	
events	array[fpolicy_events]	
policies	array[fpolicy_policies]	
svm	svm	

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 the FPolicy configuration for an SVM

`DELETE /protocols/fpolicy/{svm.uuid}`

Introduced In: 9.6

Deletes the FPolicy configuration for the specified SVM. Before deleting the FPolicy configuration, ensure that all policies belonging to the SVM are disabled.

Related ONTAP commands

- `fpolicy delete`
- `fpolicy policy scope delete`
- `fpolicy policy delete`
- `fpolicy policy event delete`
- `fpolicy policy external-engine delete`

Learn more

- [DOC /protocols/fpolicy](#)

Parameters

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

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
9765030	Cannot delete an FPolicy configuration if any of the policy is enabled
9765031	If any of the FPolicy engine, FPolicy event or FPolicy policy deletion fails due to a systemic error or hardware failure, the cause of the failure is detailed in the error message.

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 the FPolicy configuration for an SVM

GET /protocols/fpolicy/{svm.uuid}

Introduced In: 9.6

Retrieves an FPolicy configuration of an SVM.

Related ONTAP commands

- `fpolicy show`
- `fpolicy policy show`
- `fpolicy policy scope show`
- `fpolicy policy event show`
- `fpolicy policy external-engine show`

Learn more

- [DOC /protocols/fpolicy](#)

Parameters

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
_links	_links	
engines	array[fpolicy_engines]	
events	array[fpolicy_events]	
policies	array[fpolicy_policies]	
svm	svm	

Example response

```
{  
  "_links": {  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "engines": [  
    {  
      "name": "fp_ex_eng",  
      "port": 9876,  
      "primary_servers": [  
        "10.132.145.20",  
        "10.140.101.109"  
      ],  
      "secondary_servers": [  
        "10.132.145.20",  
        "10.132.145.21"  
      ],  
      "type": "string"  
    }  
  ],  
  "events": [  
    {  
      "name": "event_nfs_close",  
      "protocol": "string"  
    }  
  ],  
  "policies": [  
    {  
      "engine": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        },  
        "name": "string"  
      },  
      "events": [  
        "event_nfs_close",  
        "event_open"  
      ],  
      "name": "fp_policy_1",  
      "scope": {  
        "exclude_export_policies": [  
          ...  
        ]  
      }  
    }  
  ]  
}
```

```

        "string"
    ],
    "exclude_extension": [
        "string"
    ],
    "exclude_shares": [
        "string"
    ],
    "exclude_volumes": [
        "vol1",
        "vol_svm1",
        "*"
    ],
    "include_export_policies": [
        "string"
    ],
    "include_extension": [
        "string"
    ],
    "include_shares": [
        "sh1",
        "share_cifs"
    ],
    "include_volumes": [
        "vol1",
        "vol_svm1"
    ]
}
}
],
{
    "svm": {
        "_links": {
            "self": {
                "href": "/api/resourcelink"
            }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-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	

fpolicy_engines

The engine defines how ONTAP makes and manages connections to external FPolicy servers.

Name	Type	Description
name	string	Specifies the name to assign to the external server configuration.
port	integer	Port number of the FPolicy server application.
primary_servers	array[string]	
secondary_servers	array[string]	
type	string	<p>The notification mode determines what ONTAP does after sending notifications to FPolicy servers. The possible values are:</p> <ul style="list-style-type: none">• synchronous - After sending a notification, wait for a response from the FPolicy server.• asynchronous - After sending a notification, file request processing continues.<ul style="list-style-type: none">◦ Default value: 1◦ enum: ["synchronous", "asynchronous"]◦ Introduced in: 9.10

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.

Name	Type	Description
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.
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.

Name	Type	Description
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_events

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.

Name	Type	Description
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.

fpolicy_engine_reference

FPolicy external engine

Name	Type	Description
_links	_links	
name	string	The name of the FPolicy external engine.

fpolicy_event_reference

FPolicy events

Name	Type	Description
_links	_links	
name	string	

scope

Name	Type	Description
exclude_export_policies	array[string]	
exclude_extension	array[string]	
exclude_shares	array[string]	
exclude_volumes	array[string]	
include_export_policies	array[string]	

Name	Type	Description
include_extension	array[string]	
include_shares	array[string]	
include_volumes	array[string]	

fpolicy_policies

Name	Type	Description
enabled	boolean	Specifies if the policy is enabled on the SVM or not. If no value is mentioned for this field but priority is set, then this policy will be enabled.
engine	fpolicy_engine_reference	FPolicy external engine
events	array[fpolicy_event_reference]	
mandatory	boolean	Specifies what action to take on a file access event in a case when all primary and secondary servers are down or no response is received from the FPolicy servers within a given timeout period. When this parameter is set to true, file access events will be denied under these circumstances.
name	string	Specifies the name of the policy.
priority	integer	Specifies the priority that is assigned to this policy.
scope	scope	

svm

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

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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