



# **Manage FPolicy engine configuration**

## **ONTAP 9.10.1 REST API Documentation**

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# Manage FPolicy engine configuration

## Protocols fpolicy svm.uuid engines endpoint overview

### Overview

The FPolicy engine allows you to configure the external servers to which the file access notifications are sent. As part of FPolicy engine configuration, you can configure the server(s) to which the notification is sent, an optional set of secondary server(s) to which the notification is sent in the case of the primary server(s) failure, the port number for FPolicy application and the type of the engine, synchronous or asynchronous.

For the synchronous engine, ONTAP will wait for a response from the FPolicy application before it allows the operation. With an asynchronous engine, ONTAP proceeds with the operation processing after sending the notification to the FPolicy application. An engine can belong to multiple FPolicy policies.

### Examples

#### Creating an FPolicy engine

---

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

#The call:
curl -X POST "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/engines/" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"name\": \"engine0\", \"port\": 9876, \"primary_servers\": [ \"10.132.145.22\", \"10.140.101.109\" ], \"secondary_servers\": [ \"10.132.145.20\", \"10.132.145.21\" ], \"type\": \"synchronous\"}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "name": "engine0",
      "primary_servers": [
        "10.132.145.22",
        "10.140.101.109"
      ],
      "secondary_servers": [
        "10.132.145.20",
        "10.132.145.21"
      ],
      "port": 9876,
      "type": "synchronous"
    }
  ]
}
```

---

## Creating an FPolicy engine with the minimum required fields

---

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

#The call:
curl -X POST "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/engines/" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"name\": \"engine0\", \"port\": 9876, \"primary_servers\": [ \"10.132.145.22\", \"10.140.101.109\" ], \"type\": \"synchronous\"}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "name": "engine0",
      "primary_servers": [
        "10.132.145.22",
        "10.140.101.109"
      ],
      "port": 9876,
      "type": "synchronous"
    }
  ]
}
```

---

## Retrieving an FPolicy engine configuration for a particular SVM

---

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

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

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "4f643fb4-fd21-11e8-ae49-0050568e2c1e"
      },
      "name": "cifs",
      "primary_servers": [
        "10.20.20.10"
      ],
      "port": 9876,
      "type": "synchronous"
    },
    {
      "svm": {
        "uuid": "4f643fb4-fd21-11e8-ae49-0050568e2c1e"
      },
      "name": "nfs",
      "primary_servers": [
        "10.23.140.64",
        "10.140.101.109"
      ],
      "secondary_servers": [
        "10.132.145.20",
        "10.132.145.22"
      ],
      "port": 9876,
      "type": "synchronous"
    }
  ],
  "num_records": 2
}
```

## Retrieving a specific FPolicy engine configuration for an SVM

---

```
# The Api:
GET /protocols/fpolicy/{svm.uuid}/engines/{name}

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

# The response:
{
  "svm": {
    "uuid": "4f643fb4-fd21-11e8-ae49-0050568e2c1e"
  },
  "name": "cifs",
  "primary_servers": [
    "10.20.20.10"
  ],
  "port": 9876,
  "type": "synchronous"
}
```

## Updating an FPolicy engine for an SVM

---

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/engines/cifs" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"port\": 6666, \"secondary_servers\": [ \"10.132.145.20\", \"10.132.145.21\" ], \"type\": \"synchronous\"}"
```

## Updating all the attributes of a specific FPolicy engine for an SVM

---

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/fpolicy/4f643fb4-fd21-11e8-ae49-0050568e2c1e/engines/cifs" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"port\": 9876, \"primary_servers\": [ \"10.132.145.20\", \"10.140.101.109\" ], \"secondary_servers\": [ \"10.132.145.23\", \"10.132.145.21\" ], \"type\": \"synchronous\"}"
```

---

## Deleting a specific FPolicy engine for an SVM

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

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

---

## Retrieve the FPolicy engine configuration for all engines of an SVM

GET /protocols/fpolicy/{svm.uuid}/engines

**Introduced In:** 9.6

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

### Related ONTAP commands

- `fpolicy policy external-engine show`

### Learn more

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



## Parameters

Name	Type	In	Required	Description
primary_servers	string	query	False	Filter by primary_servers
type	string	query	False	Filter by type
secondary_servers	string	query	False	Filter by secondary_servers
name	string	query	False	Filter by name
port	integer	query	False	Filter by port
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.  • Default value: 1

Name	Type	In	Required	Description
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"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">fpolicy_engine</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "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"
    ],
    "svm": {
      "uuid": "string"
    },
    "type": "synchronous"
  }
}
```

## Error

Status: Default,

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

svm

Name	Type	Description
uuid	string	SVM UUID

fpolicy\_engine

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]	
svm	<a href="#">svm</a>	

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"> <li>• synchronous - After sending a notification, wait for a response from the FPolicy server.</li> <li>• asynchronous - After sending a notification, file request processing continues. <ul style="list-style-type: none"> <li>◦ Default value: 1</li> <li>◦ enum: ["synchronous", "asynchronous"]</li> <li>◦ Introduced in: 9.6</li> </ul> </li> </ul>

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

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

## Create the FPolicy engine configuration for an SVM

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

**Introduced In:** 9.6

Creates an FPolicy engine configuration for a specified SVM. FPolicy engine creation is allowed only on data

SVMs.

## Required properties

- `svm.uuid` - Existing SVM in which to create the FPolicy engine.
- `name` - Name of external engine.
- `port` - Port number of the FPolicy server application.
- `primary_servers` - List of primary FPolicy servers to which the node will send notifications.

## Recommended optional properties

- `secondary_servers` - It is recommended to configure secondary FPolicy server to which the node will send notifications when the primary server is down.

## Default property values

- `type` - *synchronous*

## Related ONTAP commands

- `fpolicy policy external-engine create`

## Learn more

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

## 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"><li>• Default value:</li></ul>
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

## Request Body

Name	Type	Description
name	string	Specifies the name to assign to the external server configuration.

Name	Type	Description
port	integer	Port number of the FPolicy server application.
primary_servers	array[string]	
secondary_servers	array[string]	
svm	<a href="#">svm</a>	
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"> <li>• synchronous - After sending a notification, wait for a response from the FPolicy server.</li> <li>• asynchronous - After sending a notification, file request processing continues. <ul style="list-style-type: none"> <li>◦ Default value: 1</li> <li>◦ enum: ["synchronous", "asynchronous"]</li> <li>◦ Introduced in: 9.6</li> </ul> </li> </ul>

#### Example request

```
{
  "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"
  ],
  "svm": {
    "uuid": "string"
  },
  "type": "synchronous"
}
```



## Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">fpolicy_engine</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "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"
    ],
    "svm": {
      "uuid": "string"
    },
    "type": "synchronous"
  }
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
9764885	The primary secondary server has a redundant IP address
9764953	The name of the FPolicy engine is "native" which is reserved by the system

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

## Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

svm

Name	Type	Description
uuid	string	SVM UUID

fpolicy\_engine

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]	
svm	<a href="#">svm</a>	
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"><li>• synchronous - After sending a notification, wait for a response from the FPolicy server.</li><li>• asynchronous - After sending a notification, file request processing continues.<ul style="list-style-type: none"><li>◦ Default value: 1</li><li>◦ enum: ["synchronous", "asynchronous"]</li><li>◦ Introduced in: 9.6</li></ul></li></ul>

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

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

## Delete the FPolicy external engine configuration

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

**Introduced In:** 9.6

Deletes the FPolicy external engine configuration. Deletion of an FPolicy engine that is attached to one or more FPolicy policies is not allowed.

### Related ONTAP commands

- `fpolicy policy external-engine modify`

### Learn more

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

### 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.

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
9764940	At least one FPolicy policy is using the FPolicy engine
9764887	The FPolicy engine is a cluster level FPolicy engine

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

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

## Retrieve a particular FPolicy engine configuration for an SVM

GET /protocols/fpolicy/{svm.uuid}/engines/{name}

Introduced In: 9.6

Retrieves a particular FPolicy engine configuration of a specified SVM. A cluster-level FPolicy engine configuration cannot be retrieved for a data SVM.

### Related ONTAP commands

- `fpolicy policy external-engine show`

### Learn more

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

### 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
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]	
svm	<a href="#">svm</a>	
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"> <li>• synchronous - After sending a notification, wait for a response from the FPolicy server.</li> <li>• asynchronous - After sending a notification, file request processing continues. <ul style="list-style-type: none"> <li>◦ Default value: 1</li> <li>◦ enum: ["synchronous", "asynchronous"]</li> <li>◦ Introduced in: 9.6</li> </ul> </li> </ul>

## Example response

```
{
  "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"
  ],
  "svm": {
    "uuid": "string"
  },
  "type": "synchronous"
}
```

## 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

svm

Name	Type	Description
uuid	string	SVM UUID

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

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

## Update a specific FPolicy engine configuration for an SVM

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

**Introduced In:** 9.6

Updates a specific FPolicy engine configuration of an SVM. Modification of an FPolicy engine that is attached to one or more enabled FPolicy policies is not allowed.

### Related ONTAP commands

- `fpolicy policy external-engine modify`

### Learn more

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

## 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
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]	
svm	<a href="#">svm</a>	
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"><li>• synchronous - After sending a notification, wait for a response from the FPolicy server.</li><li>• asynchronous - After sending a notification, file request processing continues.<ul style="list-style-type: none"><li>◦ Default value: 1</li><li>◦ enum: ["synchronous", "asynchronous"]</li><li>◦ Introduced in: 9.6</li></ul></li></ul>

## Example request

```
{
  "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"
  ],
  "svm": {
    "uuid": "string"
  },
  "type": "synchronous"
}
```

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
9764922	The primary and secondary server has a redundant IP address
9764942	At least one FPolicy policy is using the FPolicy engine
9764886	FPolicy engine is a cluster-level FPolicy engine

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

svm

Name	Type	Description
uuid	string	SVM UUID

fpolicy\_engine

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]	
svm	<a href="#">svm</a>	
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"><li>• synchronous - After sending a notification, wait for a response from the FPolicy server.</li><li>• asynchronous - After sending a notification, file request processing continues.<ul style="list-style-type: none"><li>◦ Default value: 1</li><li>◦ enum: ["synchronous", "asynchronous"]</li><li>◦ Introduced in: 9.6</li></ul></li></ul>

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

## error

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

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