



# **View and update FPolicy server configuration**

ONTAP 9.13.1 REST API reference

NetApp  
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# View and update FPolicy server configuration

## Protocols fpolicy svm.uuid connections endpoint overview

### Overview

This API is used to display and update connection status information for external FPolicy servers. You must keep the following in mind while using these endpoints:

- If the `passthrough_read` field is set to `true` in a GET collection call, only Fpolicy passthrough-read connections are returned.
- If the `passthrough_read` field is not provided or set to `false` in a GET collection call, only FPolicy server connections are returned.

### Examples

#### Retrieving the FPolicy server connections for all SVMs in the cluster

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/protocols/fpolicy/*/connections?passthrough_read=false&fields=*&re
turn_records=true" -H "accept: application/json"

# The Response:
{
  "records": [
    {
      "node": {
        "uuid": "8ca36b68-c501-11eb-b82c-0050568e5902",
        "name": "hsaraswa-vs1m4"
      },
      "svm": {
        "uuid": "9f738ac5-c502-11eb-b82c-0050568e5902",
        "name": "vs1"
      },
      "policy": {
        "name": "p1"
      },
      "server": "192.168.137.78",
      "state": "disconnected",
      "update_time": "2021-06-17T16:05:15+05:30",
      "disconnected_reason": {
```

```

    "message": "No local lif present to connect to FPolicy server.",
    "code": 9305
  },
  "type": "primary"
},
{
  "node": {
    "uuid": "8ca36b68-c501-11eb-b82c-0050568e5902",
    "name": "hsaraswa-vs4"
  },
  "svm": {
    "uuid": "9f738ac5-c502-11eb-b82c-0050568e5902",
    "name": "vs1"
  },
  "policy": {
    "name": "p2"
  },
  "server": "192.168.136.38",
  "state": "disconnected",
  "update_time": "2021-06-17T16:05:15+05:30",
  "disconnected_reason": {
    "message": "No local lif present to connect to FPolicy server.",
    "code": 9305
  },
  "type": "primary"
},
{
  "node": {
    "uuid": "8ca36b68-c501-11eb-b82c-0050568e5902",
    "name": "hsaraswa-vs4"
  },
  "svm": {
    "uuid": "b6df362b-c502-11eb-b82c-0050568e5902",
    "name": "vs2"
  },
  "policy": {
    "name": "poll"
  },
  "server": "192.168.129.146",
  "state": "disconnected",
  "update_time": "2021-06-17T16:05:15+05:30",
  "disconnected_reason": {
    "message": "No local lif present to connect to FPolicy server.",
    "code": 9305
  },
  "type": "primary"
}

```

```
    }  
  ],  
  "num_records": 3  
}
```

## Retrieving all FPolicy passthrough read connections for all SVMs in the cluster

```
# The API:  
GET /protocols/fpolicy/{svm.uuid}/connections  
  
# The Call:  
curl-X GET "https://<mgmt-  
ip>/api/protocols/fpolicy/*/connections?passthrough_read=true&fields=*&ret  
urn_records=true&return_timeout=15"  
  
# The Response:  
{  
  "records": [  
    {  
      "node": {  
        "uuid": "55693090-c7c8-11eb-a07a-0050568ebc01",  
        "name": "chiragm-vs3",  
      },  
      "svm": {  
        "uuid": "a69e938d-c7ca-11eb-a07a-0050568ebc01",  
        "name": "vs2",  
      },  
      "policy": {  
        "name": "pol1",  
      },  
      "server": "192.168.129.146",  
      "session_uuid": "2410d348-c7cb-11eb-a07a-0050568ebc01",  
      "state": "connected",  
    },  
    {  
      "node": {  
        "uuid": "55693090-c7c8-11eb-a07a-0050568ebc01",  
        "name": "chiragm-vs3",  
      },  
      "svm": {  
        "uuid": "a69e938d-c7ca-11eb-a07a-0050568ebc01",  
        "name": "vs2",  
      },  
    }  
  ]  
}
```

```

    },
    "policy": {
      "name": "pol2",
    },
    "server": "192.168.129.146",
    "session_uuid": "288f7002-c7cb-11eb-a07a-0050568ebc01",
    "state": "connected",
  }
],
"num_records": 2,
}

```

## Retrieving the FPolicy server connections for a specific SVM

```

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

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/fpolicy/9f738ac5-c502-11eb-b82c-0050568e5902/connections?passthrough_read=false&fields=*&return_records=true" -H "accept: application/json"

# The Response:
{
  "records": [
    {
      "node": {
        "uuid": "8ca36b68-c501-11eb-b82c-0050568e5902",
        "name": "hsaraswa-vs1m4"
      },
      "svm": {
        "uuid": "9f738ac5-c502-11eb-b82c-0050568e5902",
        "name": "vs1"
      },
      "policy": {
        "name": "p1"
      },
      "server": "192.168.137.78",
      "state": "disconnected",
      "update_time": "2021-06-17T16:05:15+05:30",
      "disconnected_reason": {

```

```
    "message": "No local lif present to connect to FPolicy server.",
    "code": 9305
  },
  "type": "primary"
},
{
  "node": {
    "uuid": "8ca36b68-c501-11eb-b82c-0050568e5902",
    "name": "hsaraswa-vs1m4"
  },
  "svm": {
    "uuid": "9f738ac5-c502-11eb-b82c-0050568e5902",
    "name": "vs1"
  },
  "policy": {
    "name": "p2"
  },
  "server": "192.168.136.38",
  "state": "disconnected",
  "update_time": "2021-06-17T16:05:15+05:30",
  "disconnected_reason": {
    "message": "No local lif present to connect to FPolicy server.",
    "code": 9305
  },
  "type": "primary"
},
],
"num_records": 2
}
```

---

## Retrieving a specific FPolicy server connection

---

```
# The API:
GET
/protocols/fpolicy/{svm.uuid}/connections/{node.uuid}/{policy.name}/{server}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/fpolicy/9f738ac5-c502-11eb-b82c-0050568e5902/connections/8ca36b68-c501-11eb-b82c-0050568e5902/p1/192.168.137.78" -H "accept: application/json"

# The Response:
{
  "node": {
    "uuid": "8ca36b68-c501-11eb-b82c-0050568e5902",
    "name": "hsaraswa-vs4"
  },
  "svm": {
    "uuid": "9f738ac5-c502-11eb-b82c-0050568e5902",
    "name": "vs1"
  },
  "policy": {
    "name": "p1"
  },
  "server": "192.168.137.78",
  "state": "disconnected",
  "update_time": "2021-06-17T16:05:15+05:30",
  "disconnected_reason": {
    "message": "No local lif present to connect to FPolicy server.",
    "code": 9305
  },
  "type": "primary"
}
```

---

## Updating the FPolicy server connection

---



```
# The API:
PATCH
/protocols/fpolicy/{svm.uuid}/connections/{node.uuid}/{policy.name}/{server}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/fpolicy/9f738ac5-c502-11eb-b82c-0050568e5902/connections/8ca36b68-c501-11eb-b82c-0050568e5902/p1/192.168.137.78" -H "accept: application/json"
```

## Retrieve the status of FPolicy servers

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

**Introduced In:** 9.10

Retrieves the statuses of FPolicy servers.

### Related ONTAP commands

- `vserver fpolicy show-engine`
- `vserver fpolicy show-passthrough-read-connection`

### Learn more

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

### Parameters

Name	Type	In	Required	Description
passthrough_read	boolean	query	False	Whether to view only passthrough-read connections
svm.name	string	query	False	Filter by svm.name
policy.name	string	query	False	Filter by policy.name
type	string	query	False	Filter by type
update_time	string	query	False	Filter by update_time

Name	Type	In	Required	Description
server	string	query	False	Filter by server
disconnected_reason.code	integer	query	False	Filter by disconnected_reason.code
disconnected_reason.message	string	query	False	Filter by disconnected_reason.message
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
session_uuid	string	query	False	Filter by session_uuid
state	string	query	False	Filter by state
max_records	integer	query	False	Limit the number of records returned.
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
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_connection</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "disconnected_reason": {
      "code": 9370,
      "message": "TCP Connection to FPolicy server failed."
    },
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "policy": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "string"
    },
    "server": "10.132.145.20",
    "session_uuid": "5224ec64-b336-11eb-841c-0050568e14c2",
    "state": "connected",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    }
  }
}
```

```
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"type": "primary",
"update_time": "2019-06-12 15:00:16 +0000"
}
}
```

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

\_links

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

disconnected\_reason

Indicates the reason for FPolicy server disconnection.

Name	Type	Description
code	integer	Reason ID for the FPolicy Server disconnection.
message	string	FPolicy server reason for disconnection message.

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

self\_link

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

fpolicy\_policy\_reference

Name	Type	Description
_links	<a href="#">self_link</a>	
name	string	The name of the FPolicy Policy name.

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

fpolicy\_connection

Displays the connection status information of the FPolicy server.

Name	Type	Description
_links	<a href="#">_links</a>	
disconnected_reason	<a href="#">disconnected_reason</a>	Indicates the reason for FPolicy server disconnection.
node	<a href="#">node</a>	
policy	<a href="#">fpolicy_policy_reference</a>	
server	string	IP address of the FPolicy server.
session_uuid	string	Unique session ID associated with each connection to the FPolicy server and it can be used to identify the established connection.
state	string	Specifies the FPolicy server connection state indicating if it is in the connected or disconnected state. The following is a list of the possible states: <ul style="list-style-type: none"> <li>• connected - Connected</li> <li>• disconnected - Disconnected</li> </ul>
svm	<a href="#">svm</a>	

Name	Type	Description
type	string	FPolicy server type. The possible values are: <ul style="list-style-type: none"> <li>• primary - Primary server</li> <li>• secondary - Secondary server</li> </ul>
update_time	string	Specifies the time at which FPolicy server is connected or disconnected.

#### 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 the status of an FPolicy server

GET /protocols/fpolicy/{svm.uuid}/connections/{node.uuid}/{policy.name}/{server}

**Introduced In:** 9.10

Retrieves the status of an FPolicy server.

### Related ONTAP commands

- `vserver fpolicy show-engine`



## Learn more

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

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
disconnected_reason	<a href="#">disconnected_reason</a>	Indicates the reason for FPolicy server disconnection.
node	<a href="#">node</a>	
policy	<a href="#">fpolicy_policy_reference</a>	
server	string	IP address of the FPolicy server.
session_uuid	string	Unique session ID associated with each connection to the FPolicy server and it can be used to identify the established connection.
state	string	Specifies the FPolicy server connection state indicating if it is in the connected or disconnected state. The following is a list of the possible states: <ul style="list-style-type: none"><li>• connected - Connected</li><li>• disconnected - Disconnected</li></ul>
svm	<a href="#">svm</a>	
type	string	FPolicy server type. The possible values are: <ul style="list-style-type: none"><li>• primary - Primary server</li><li>• secondary - Secondary server</li></ul>
update_time	string	Specifies the time at which FPolicy server is connected or disconnected.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "disconnected_reason": {
    "code": 9370,
    "message": "TCP Connection to FPolicy server failed."
  },
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string"
  },
  "server": "10.132.145.20",
  "session_uuid": "5224ec64-b336-11eb-841c-0050568e14c2",
  "state": "connected",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "primary",
  "update_time": "2019-06-12 15:00:16 +0000"
}
```

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

disconnected\_reason

Indicates the reason for FPolicy server disconnection.

Name	Type	Description
code	integer	Reason ID for the FPolicy Server disconnection.
message	string	FPolicy server reason for disconnection message.

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

self\_link

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

fpolicy\_policy\_reference

Name	Type	Description
_links	<a href="#">self_link</a>	
name	string	The name of the FPolicy Policy name.

svm

Name	Type	Description
_links	<a href="#">_links</a>	
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[ <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 the FPolicy server status

PATCH

`/protocols/fpolicy/{svm.uuid}/connections/{node.uuid}/{policy.name}/{server}`

**Introduced In:** 9.10

Updates the status of an FPolicy server.

### Related ONTAP commands

- `vserver fpolicy engine-connect`
- `vserver fpolicy engine-disconnect`

### Learn more

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

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
disconnected_reason	<a href="#">disconnected_reason</a>	Indicates the reason for FPolicy server disconnection.
node	<a href="#">node</a>	
policy	<a href="#">fpolicy_policy_reference</a>	
server	string	IP address of the FPolicy server.
session_uuid	string	Unique session ID associated with each connection to the FPolicy server and it can be used to identify the established connection.
state	string	Specifies the FPolicy server connection state indicating if it is in the connected or disconnected state. The following is a list of the possible states: <ul style="list-style-type: none"><li>• connected - Connected</li><li>• disconnected - Disconnected</li></ul>
svm	<a href="#">svm</a>	
type	string	FPolicy server type. The possible values are: <ul style="list-style-type: none"><li>• primary - Primary server</li><li>• secondary - Secondary server</li></ul>
update_time	string	Specifies the time at which FPolicy server is connected or disconnected.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "disconnected_reason": {
    "code": 9370,
    "message": "TCP Connection to FPolicy server failed."
  },
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string"
  },
  "server": "10.132.145.20",
  "session_uuid": "5224ec64-b336-11eb-841c-0050568e14c2",
  "state": "connected",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "primary",
  "update_time": "2019-06-12 15:00:16 +0000"
}
```

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
9764954	The specified policy does not exist
9764911	Failed to connect to the FPolicy server. Reason: The specified entry does not exist
9764948	The specified policy is disabled. Using a disabled policy with this command is not supported. Use the 'fpolicy enable' command to enable the policy
9764912	Failed to disconnect the FPolicy server. Reason: The specified entry does not exist

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

disconnected\_reason

Indicates the reason for FPolicy server disconnection.

Name	Type	Description
code	integer	Reason ID for the FPolicy Server disconnection.
message	string	FPolicy server reason for disconnection message.

node

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

self\_link

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

fpolicy\_policy\_reference

Name	Type	Description
_links	<a href="#">self_link</a>	
name	string	The name of the FPolicy Policy name.

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

#### fpolicy\_connection

Displays the connection status information of the FPolicy server.

Name	Type	Description
_links	<a href="#">_links</a>	
disconnected_reason	<a href="#">disconnected_reason</a>	Indicates the reason for FPolicy server disconnection.
node	<a href="#">node</a>	
policy	<a href="#">fpolicy_policy_reference</a>	
server	string	IP address of the FPolicy server.
session_uuid	string	Unique session ID associated with each connection to the FPolicy server and it can be used to identify the established connection.
state	string	Specifies the FPolicy server connection state indicating if it is in the connected or disconnected state. The following is a list of the possible states: <ul style="list-style-type: none"> <li>• connected - Connected</li> <li>• disconnected - Disconnected</li> </ul>
svm	<a href="#">svm</a>	
type	string	FPolicy server type. The possible values are: <ul style="list-style-type: none"> <li>• primary - Primary server</li> <li>• secondary - Secondary server</li> </ul>

Name	Type	Description
update_time	string	Specifies the time at which FPolicy server is connected or disconnected.

#### 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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