



View and update FPolicy server configuration

ONTAP 9.11.1 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-vsim4"
      },
      "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-vsim4"
  },
  "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-vsim4"
  },
  "svm": {
    "uuid": "b6df362b-c502-11eb-b82c-0050568e5902",
    "name": "vs2"
  },
  "policy": {
    "name": "pol1"
  },
  "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-vsim3",  
      },  
      "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-vsim3",  
      },  
      "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-vsim4"
      },
      "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-vsim4"
  },
  "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 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 |
| disconnected_reason.code | integer | query | False | Filter by disconnected_reason.code |
| disconnected_reason.message | string | query | False | Filter by disconnected_reason.message |
| svm.name | string | query | False | Filter by svm.name |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| type | string | query | False | Filter by type |
| update_time | string | query | False | Filter by update_time |
| policy.name | string | query | False | Filter by policy.name |
| session_uuid | string | query | False | Filter by session_uuid |
| state | string | query | False | Filter by state |
| server | string | query | False | Filter by server |
| node.uuid | string | query | False | Filter by node.uuid |
| node.name | string | query | False | Filter by node.name |
| 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 | <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 |

| 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"> • 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_connection] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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": "2019-06-12T11:00:16-04:00"
}
}

```

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 | |

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 | _links | |
| name | string | |
| uuid | string | |

self_link

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

fpolicy_policy_reference

| Name | Type | Description |
|--------|---------------------------|--------------------------------------|
| _links | self_link | |
| name | string | The name of the FPolicy Policy name. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| 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 | _links | |
| disconnected_reason | disconnected_reason | Indicates the reason for FPolicy server disconnection. |
| node | node | |
| policy | fpolicy_policy_reference | |
| 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"> • connected - Connected • disconnected - Disconnected |
| svm | svm | |

| Name | Type | Description |
|-------------|--------|--|
| type | string | FPolicy server type. The possible values are: <ul style="list-style-type: none"> • primary - Primary server • secondary - Secondary server |
| 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[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Retrieve 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 | _links | |
| disconnected_reason | disconnected_reason | Indicates the reason for FPolicy server disconnection. |
| node | node | |
| policy | fpolicy_policy_reference | |
| 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">• connected - Connected• disconnected - Disconnected |
| svm | svm | |
| type | string | FPolicy server type. The possible values are: <ul style="list-style-type: none">• primary - Primary server• secondary - Secondary server |
| 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": "2019-06-12T11:00:16-04:00"
}
```

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 | |

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 | _links | |
| name | string | |
| uuid | string | |

self_link

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

fpolicy_policy_reference

| Name | Type | Description |
|--------|---------------------------|--------------------------------------|
| _links | self_link | |
| name | string | The name of the FPolicy Policy name. |

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. |

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 | _links | |
| disconnected_reason | disconnected_reason | Indicates the reason for FPolicy server disconnection. |
| node | node | |
| policy | fpolicy_policy_reference | |
| 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">• connected - Connected• disconnected - Disconnected |
| svm | svm | |
| type | string | FPolicy server type. The possible values are: <ul style="list-style-type: none">• primary - Primary server• secondary - Secondary server |
| 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": "2019-06-12T11:00:16-04:00"
}
```

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 | href | |

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 | _links | |
| name | string | |
| uuid | string | |

self_link

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

fpolicy_policy_reference

| Name | Type | Description |
|--------|---------------------------|--------------------------------------|
| _links | self_link | |
| name | string | The name of the FPolicy Policy name. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| 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 | _links | |
| disconnected_reason | disconnected_reason | Indicates the reason for FPolicy server disconnection. |
| node | node | |
| policy | fpolicy_policy_reference | |
| 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"> • connected - Connected • disconnected - Disconnected |
| svm | svm | |
| type | string | FPolicy server type. The possible values are: <ul style="list-style-type: none"> • primary - Primary server • secondary - Secondary server |

| 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[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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