



# **Manage Ethernet switches**

## **REST API reference**

NetApp

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# Manage Ethernet switches

## Manage Ethernet switches

### Overview

This endpoint manages Ethernet switches used by ONTAP for monitoring and configuration. You can retrieve, configure, add, or delete Ethernet switches, as well as change SNMP credentials and monitor their status.

### Examples

#### Retrieving a list of Ethernet switches

The following example shows the response with a list of monitored Ethernet switches. Note that if the *fields=\** parameter is not specified, the fields *snmp.version*, *snmp.user*, *version*, *monitoring.enabled*, and *monitoring.reason* are not returned.

```
# The API:
/network/ethernet/switches

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ethernet/switches?fields=*" -H
"accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response:
{
  "records": [
    {
      "name": "RTP-CS01-510R11(FOC22092K12)",
      "address": "172.26.207.77",
      "discovered": true,
      "model": "NX3232C",
      "monitoring": {
        "enabled": true,
        "monitored": true,
        "reason": "None"
      },
      "network": "cluster",
      "serial_number": "Unknown",
      "snmp": {
        "version": "snmpv2c",
        "user": "cshml!"
      },
      "version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.2(3)",
      "role": "cluster",
```

```

    "rcf_version": "RCF NX3232C v1.13 1-CLUSTER",
    "_links": {
      "self": {
        "href": "/api/network/ethernet/switches/RTP-CS01-510R11%28FOC22092K12%29"
      }
    }
  },
  {
    "name": "RTP-CS01-510R12 (FOC22373C3P) ",
    "address": "172.26.207.82",
    "discovered": true,
    "model": "NX3232C",
    "monitoring": {
      "enabled": true,
      "monitored": true,
      "reason": "None"
    },
    "network": "cluster",
    "serial_number": "FOC22373C3P",
    "snmp": {
      "version": "snmpv2c",
      "user": "cshml!"
    },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version 9.2(3)",
    "role": "cluster",
    "rcf_version": "RCF NX3232C v1.13 1-CLUSTER",
    "_links": {
      "self": {
        "href": "/api/network/ethernet/switches/RTP-CS01-510R12%28FOC22373C3P%29"
      }
    }
  },
  {
    "name": "RTP-SS01-510R10 (FOC22170DFR) ",
    "address": "172.26.207.65",
    "discovered": true,
    "model": "NX3232C",
    "monitoring": {
      "enabled": true,
      "monitored": true,
      "reason": "None"
    },
    "network": "storage",

```

```

    "serial_number": "FOC22170DFR",
    "snmp": {
        "version": "snmpv2c",
        "user": "cshml!"
    },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.3(3)",
    "role": "storage",
    "rcf_version": "RCF NX3232C v1.13 1-STORAGE",
    "_links": {
        "self": {
            "href": "/api/network/ethernet/switches/RTP-SS01-
510R10%28FOC22170DFR%29"
        }
    }
},
{
    "name": "RTP-SS02-510R10 (FOC22131U6T)",
    "address": "172.26.207.66",
    "discovered": true,
    "model": "NX3232C",
    "monitoring": {
        "enabled": true,
        "monitored": true,
        "reason": "None"
    },
    "network": "storage",
    "serial_number": "FOC22131U6T",
    "snmp": {
        "version": "snmpv2c",
        "user": "cshml!"
    },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.3(3)",
    "role": "storage",
    "rcf_version": "RCF NX3232C v1.13 1-STORAGE",
    "_links": {
        "self": {
            "href": "/api/network/ethernet/switches/RTP-SS02-
510R10%28FOC22131U6T%29"
        }
    }
}
],
"num_records": 4,
"_links": {

```

```
"self": {  
  "href": "/api/network/ethernet/switches?fields=*"  
}  
}  
}
```

### Retrieving an Ethernet switch

The following example shows the response of the requested Ethernet switch. If there is no Ethernet switch with the requested name, an error is returned.

```
# The API:
/network/ethernet/switches/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ethernet/switches/RTP-SS02-510R10(FOC22131U6T)?fields=*" -H "accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response:
{
  "name": "RTP-SS02-510R10(FOC22131U6T)",
  "address": "172.26.207.66",
  "discovered": true,
  "model": "NX3232C",
  "monitoring": {
    "enabled": true,
    "monitored": true,
    "reason": "None"
  },
  "network": "storage",
  "serial_number": "FOC22131U6T",
  "snmp": {
    "version": "snmpv2c",
    "user": "cshml!"
  },
  "version": "Cisco Nexus Operating System (NX-OS) Software, Version 9.3(3)",
  "role": "storage",
  "rcf_version": "RCF NX3232C v1.13 1-STORAGE",
  "_links": {
    "self": {
      "href": "/api/network/ethernet/switches/RTP-SS02-510R10(FOC22131U6T)"
    }
  }
}
```

### Configuring monitoring settings for an Ethernet switch

The following example configures SNMP credential and version settings for an Ethernet switch. If the provided information is not valid, an error is returned.



```
# The API:
/network/ethernet/switches/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/network/ethernet/switches/sconga-
corduroyl-03" -H "accept: application/hal+json" -H "Content-Type:
application/hal+json" -d '{"snmp": {"version": "snmpv2c", "user":
"cshml!"}}'
```

```
# The response:
{
  "job": {
    "uuid": "f84fbb3c-589c-11ec-b181-d039ea48a7dc",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/f84fbb3c-589c-11ec-b181-d039ea48a7dc"
      }
    }
  }
}
```

## Adding an Ethernet switch

The following example adds an Ethernet switch for monitoring. If the provided information is not valid, an error is returned.

```
# The API:
/network/ethernet/switches

# The call:
curl -X POST "https://<mgmt-ip>/api/network/ethernet/switches" -H "accept: application/hal+json" -H "Content-Type: application/hal+json" -d '{"name": "RTP-SS02-510R10(FOC22131U6T)", "address": "172.26.207.66", "model": "NX3232C", "monitoring": {"enabled": "true"}, "network": "storage", "snmp": {"version": "snmpv2c", "user": "cshml!"}}'

# The response:
{
  "job": {
    "uuid": "f84fbb3c-589c-11ec-b181-d039ea48a7dc",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/f84fbb3c-589c-11ec-b181-d039ea48a7dc"
      }
    }
  }
}
```

## Deleting an Ethernet switch

The following example deletes an Ethernet switch. If there is no Ethernet switch with the requested name, an error is returned.

```
# The API:
/network/ethernet/switches/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/network/ethernet/switches/sconga-corduroyl-03" -H "accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response:
{
}
```

## Retrieve Ethernet switches attached to a chassis

GET /network/ethernet/switches

Introduced In: 9.8

Retrieves a collection of Ethernet switches.

## Related ONTAP commands

- `system switch ethernet show`

## Learn more

- [DOC /network/ethernet/switches](#)

## Parameters

| Name                 | Type    | In    | Required | Description                                                                                 |
|----------------------|---------|-------|----------|---------------------------------------------------------------------------------------------|
| address              | string  | query | False    | Filter by address                                                                           |
| discovered           | boolean | query | False    | Filter by discovered                                                                        |
| model                | string  | query | False    | Filter by model                                                                             |
| network              | string  | query | False    | Filter by network                                                                           |
| serial_number        | string  | query | False    | Filter by serial_number                                                                     |
| name                 | string  | query | False    | Filter by name                                                                              |
| monitoring.enabled   | boolean | query | False    | Filter by monitoring.enabled                                                                |
| monitoring.reason    | string  | query | False    | Filter by monitoring.reason                                                                 |
| monitoring.monitored | boolean | query | False    | Filter by monitoring.monitored                                                              |
| rcf_version          | string  | query | False    | Filter by rcf_version <ul style="list-style-type: none"><li>• Introduced in: 9.17</li></ul> |
| version              | string  | query | False    | Filter by version                                                                           |
| role                 | string  | query | False    | Filter by role <ul style="list-style-type: none"><li>• Introduced in: 9.17</li></ul>        |

| Name           | Type          | In    | Required | Description                                                                                                                                                                                                                                                                                                                                           |
|----------------|---------------|-------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| snmp.user      | string        | query | False    | Filter by snmp.user                                                                                                                                                                                                                                                                                                                                   |
| snmp.version   | string        | query | False    | Filter by snmp.version                                                                                                                                                                                                                                                                                                                                |
| 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    | <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"> <li>• Default value: 1</li> </ul>                                                                                                                                                                             |
| 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: 15</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="#">collection_links</a> |                   |
| num_records | integer                          | Number of Records |
| records     | array[ <a href="#">switch</a> ]  |                   |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "address": "string",
      "model": "string",
      "monitoring": {
        "reason": "string"
      },
      "name": "string",
      "network": "string",
      "rcf_version": "RCF NX9336C-FX2 v1.13 1-CLUSTER",
      "role": [
        "cluster+storage"
      ],
      "serial_number": "string",
      "snmp": {
        "user": "string",
        "version": "string"
      },
      "version": "string"
    }
  ]
}
```

## Error

Status: Default, Error

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

### 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 |             |

collection\_links

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

self\_link

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

monitoring

| Name      | Type    | Description                |
|-----------|---------|----------------------------|
| enabled   | boolean | Enable Health Monitoring.  |
| monitored | boolean | Is Monitored.              |
| reason    | string  | Reason For Not Monitoring. |

snmp

| Name    | Type   | Description                          |
|---------|--------|--------------------------------------|
| user    | string | Community String or SNMPv3 Username. |
| version | string | SNMP Version.                        |

switch

Ethernet Switch REST API

| Name    | Type                      | Description |
|---------|---------------------------|-------------|
| _links  | <a href="#">self_link</a> |             |
| address | string                    | IP Address. |



| Name          | Type                       | Description                                                                                                                                                                   |
|---------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| discovered    | boolean                    | Discovered By ONTAP CDP/LLDP <ul style="list-style-type: none"> <li>• readOnly: 1</li> <li>• Introduced in: 9.8</li> <li>• x-nullable: true</li> </ul>                        |
| model         | string                     | Model Number.                                                                                                                                                                 |
| monitoring    | <a href="#">monitoring</a> |                                                                                                                                                                               |
| name          | string                     | Name.                                                                                                                                                                         |
| network       | string                     | Switch Network.                                                                                                                                                               |
| rcf_version   | string                     | The switch reference configuration file (RCF) version.                                                                                                                        |
| role          | string                     | Switch role based on the interface configurations. Using '+' to combine multiple roles. Available role types are: cluster, multicluster, storage, multistorage, metrocluster. |
| serial_number | string                     | Serial Number.                                                                                                                                                                |
| snmp          | <a href="#">snmp</a>       |                                                                                                                                                                               |
| version       | string                     | Software Version.                                                                                                                                                             |

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### returned\_error

| Name      | Type                                     | Description       |
|-----------|------------------------------------------|-------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments |
| code      | string                                   | Error code        |

| Name    | Type   | Description                                 |
|---------|--------|---------------------------------------------|
| message | string | Error message                               |
| target  | string | The target parameter that caused the error. |

## Create an Ethernet switch

POST /network/ethernet/switches

**Introduced In:** 9.11

Adds an Ethernet switch.

### Required properties

- `name` - Name of the switch to create.
- `address` - Switch IP address.
- `model` - Switch model number.
- `monitoring.enabled` - Whether the switch should be monitored by CSHM.
- `network`
  - *cluster* for cluster or shared switches.
  - *storage* for storage switches.
- `snmp.version` - SNMP version.
- `snmp.user` - SNMP user.

### Related ONTAP commands

- `system switch ethernet create`

### Learn more

- [DOC /network/ethernet/switches](#)

### Parameters

| Name           | Type    | In    | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False    | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> <li>• Default value: 0</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| 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"> <li>• Default value:</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Request Body

| Name    | Type   | Description |
|---------|--------|-------------|
| address | string | IP Address. |

| Name          | Type                       | Description                                                                                                                                                                   |
|---------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| discovered    | boolean                    | Discovered By ONTAP CDP/LLDP <ul style="list-style-type: none"> <li>readOnly: 1</li> <li>Introduced in: 9.8</li> <li>x-nullable: true</li> </ul>                              |
| model         | string                     | Model Number.                                                                                                                                                                 |
| monitoring    | <a href="#">monitoring</a> |                                                                                                                                                                               |
| name          | string                     | Name.                                                                                                                                                                         |
| network       | string                     | Switch Network.                                                                                                                                                               |
| rcf_version   | string                     | The switch reference configuration file (RCF) version.                                                                                                                        |
| role          | string                     | Switch role based on the interface configurations. Using '+' to combine multiple roles. Available role types are: cluster, multicluster, storage, multistorage, metrocluster. |
| serial_number | string                     | Serial Number.                                                                                                                                                                |
| snmp          | <a href="#">snmp</a>       |                                                                                                                                                                               |
| version       | string                     | Software Version.                                                                                                                                                             |

## Example request

```
{
  "address": "string",
  "model": "string",
  "monitoring": {
    "reason": "string"
  },
  "name": "string",
  "network": "string",
  "rcf_version": "RCF NX9336C-FX2 v1.13 1-CLUSTER",
  "role": [
    "cluster+storage"
  ],
  "serial_number": "string",
  "snmp": {
    "user": "string",
    "version": "string"
  },
  "version": "string"
}
```

## Response

Status: 202, Accepted

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

## Example response

```
{
  "job": {
    "uuid": "string"
  }
}
```

## Headers

| Name     | Description                               | Type   |
|----------|-------------------------------------------|--------|
| Location | Useful for tracking the resource location | string |

## Response

Status: 201, Created

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5636148    | Failed to discover SNMPv3 engine ID of the remote switch.                                                                                                                                                                                                                                                                                                                                                                                  |
| 5636149    | The "<snmp.user>" must be a valid SNMPv3 user belonging to remote switch "<name.>" and must also be configured in ONTAP.</name.></snmp.user>                                                                                                                                                                                                                                                                                               |
| 5636152    | 0.0.0.0 cannot be specified as the IP address for the "<address.>" parameter.</address.>                                                                                                                                                                                                                                                                                                                                                   |
| 8912900    | Invalid IP address.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 9044009    | SNMPv3 client feature is not available until the effective cluster version is ONTAP 9.3 or later.                                                                                                                                                                                                                                                                                                                                          |
| 12517377   | Model number validation failed. Specify the correct model number and try the command again.                                                                                                                                                                                                                                                                                                                                                |
| 12517378   | The IP "<address.>" is not reachable. Verify that the address is valid, or check the network path.</address.>                                                                                                                                                                                                                                                                                                                              |
| 12517380   | SNMP validation request timed out. Verify that the "<snmp.user>" parameter is valid.</snmp.user>                                                                                                                                                                                                                                                                                                                                           |
| 12517382   | SNMPv3 validation request timed out. Verify that the "<snmp.user>" parameter is valid (i.e., the SNMPv3 user exists in ONTAP and on the remote switch). If the "<snmp.user>" parameter is valid, verify that the SNMPv3 user's credentials are the same both in ONTAP as well as in the remote switch. If a custom engine-id was provided for the SNMPv3 user, ensure it is the same as that of the remote switch.</snmp.user></snmp.user> |
| 12517384   | A switch with the same IP address is already being monitored.                                                                                                                                                                                                                                                                                                                                                                              |

| Error Code | Description                                                                                                                    |
|------------|--------------------------------------------------------------------------------------------------------------------------------|
| 12517385   | The "<model.>" is unknown. Use \"OTHER\" if the switch model is not one of the following&#58; {models}.</model.>               |
| 12517411   | The input value for "<name.>", "<address.>" and/or "<network.>" must match its discovered value.</network.></address.></name.> |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

## Definitions

## See Definitions

href

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

self\_link

monitoring

| Name      | Type    | Description                |
|-----------|---------|----------------------------|
| enabled   | boolean | Enable Health Monitoring.  |
| monitored | boolean | Is Monitored.              |
| reason    | string  | Reason For Not Monitoring. |

snmp

| Name    | Type   | Description                          |
|---------|--------|--------------------------------------|
| user    | string | Community String or SNMPv3 Username. |
| version | string | SNMP Version.                        |

switch

Ethernet Switch REST API

| Name       | Type                       | Description                                                                                                                                  |
|------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| address    | string                     | IP Address.                                                                                                                                  |
| discovered | boolean                    | Discovered By ONTAP CDP/LLDP <ul style="list-style-type: none"><li>readOnly: 1</li><li>Introduced in: 9.8</li><li>x-nullable: true</li></ul> |
| model      | string                     | Model Number.                                                                                                                                |
| monitoring | <a href="#">monitoring</a> |                                                                                                                                              |
| name       | string                     | Name.                                                                                                                                        |



| Name          | Type                 | Description                                                                                                                                                                   |
|---------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| network       | string               | Switch Network.                                                                                                                                                               |
| rcf_version   | string               | The switch reference configuration file (RCF) version.                                                                                                                        |
| role          | string               | Switch role based on the interface configurations. Using '+' to combine multiple roles. Available role types are: cluster, multicluster, storage, multistorage, metrocluster. |
| serial_number | string               | Serial Number.                                                                                                                                                                |
| snmp          | <a href="#">snmp</a> |                                                                                                                                                                               |
| version       | string               | Software Version.                                                                                                                                                             |

\_links

job\_link

| Name | Type   | Description                                                                               |
|------|--------|-------------------------------------------------------------------------------------------|
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

returned\_error

| Name      | Type                                     | Description       |
|-----------|------------------------------------------|-------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments |
| code      | string                                   | Error code        |
| message   | string                                   | Error message     |

| Name   | Type   | Description                                 |
|--------|--------|---------------------------------------------|
| target | string | The target parameter that caused the error. |

## Delete an Ethernet switch

DELETE /network/ethernet/switches/{name}

**Introduced In:** 9.11

Deletes an Ethernet switch.

### Related ONTAP commands

- `system switch ethernet delete`

### Learn more

- [DOC /network/ethernet/switches](#)

### Parameters

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

### Response

Status: 200, Ok

### Error

Status: Default

#### ONTAP Error Response Codes

| Error Code | Description                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 12517412   | Cannot remove a discovered switch. To stop monitoring the switch, set "<monitoring.enabled>" to "\"false\"".</monitoring.enabled> |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_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 |

#### returned\_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 Ethernet switch details

GET /network/ethernet/switches/{name}

Introduced In: 9.8

Retrieves the details of an Ethernet switch.

## Related ONTAP commands

- `system switch ethernet show`

## Learn more

- [DOC /network/ethernet/switches](#)

## Parameters

| Name   | Type          | In    | Required | Description                   |
|--------|---------------|-------|----------|-------------------------------|
| name   | string        | path  | True     | Name                          |
| fields | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name       | Type                       | Description                                                                                                                                        |
|------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| _links     | <a href="#">self_link</a>  |                                                                                                                                                    |
| address    | string                     | IP Address.                                                                                                                                        |
| discovered | boolean                    | Discovered By ONTAP CDP/LLDP <ul style="list-style-type: none"><li>• readOnly: 1</li><li>• Introduced in: 9.8</li><li>• x-nullable: true</li></ul> |
| model      | string                     | Model Number.                                                                                                                                      |
| monitoring | <a href="#">monitoring</a> |                                                                                                                                                    |
| name       | string                     | Name.                                                                                                                                              |

| Name          | Type                 | Description                                                                                                                                                                   |
|---------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| network       | string               | Switch Network.                                                                                                                                                               |
| rcf_version   | string               | The switch reference configuration file (RCF) version.                                                                                                                        |
| role          | string               | Switch role based on the interface configurations. Using '+' to combine multiple roles. Available role types are: cluster, multicluster, storage, multistorage, metrocluster. |
| serial_number | string               | Serial Number.                                                                                                                                                                |
| snmp          | <a href="#">snmp</a> |                                                                                                                                                                               |
| version       | string               | Software Version.                                                                                                                                                             |

### Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "address": "string",
  "model": "string",
  "monitoring": {
    "reason": "string"
  },
  "name": "string",
  "network": "string",
  "rcf_version": "RCF NX9336C-FX2 v1.13 1-CLUSTER",
  "role": [
    "cluster+storage"
  ],
  "serial_number": "string",
  "snmp": {
    "user": "string",
    "version": "string"
  },
  "version": "string"
}
```

## Error

Status: Default, Error

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

### 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 |             |

self\_link

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

monitoring

| Name      | Type    | Description                |
|-----------|---------|----------------------------|
| enabled   | boolean | Enable Health Monitoring.  |
| monitored | boolean | Is Monitored.              |
| reason    | string  | Reason For Not Monitoring. |

snmp

| Name    | Type   | Description                          |
|---------|--------|--------------------------------------|
| user    | string | Community String or SNMPv3 Username. |
| version | string | SNMP Version.                        |

error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

returned\_error

| Name      | Type                                     | Description       |
|-----------|------------------------------------------|-------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments |
| code      | string                                   | Error code        |

| Name    | Type   | Description                                 |
|---------|--------|---------------------------------------------|
| message | string | Error message                               |
| target  | string | The target parameter that caused the error. |

## Update an Ethernet switch

PATCH `/network/ethernet/switches/{name}`

**Introduced In:** 9.8

Configures monitoring settings for an Ethernet switch.

### Related ONTAP commands

- `system switch ethernet modify`

### Learn more

- [DOC /network/ethernet/switches](#)

### Parameters

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



| Name           | Type    | In    | Required | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False    | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> <li>• Default value: 0</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |

## Request Body

| Name       | Type                       | Description                                                                                                                                                   |
|------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| address    | string                     | IP Address.                                                                                                                                                   |
| discovered | boolean                    | <p>Discovered By ONTAP CDP/LLDP</p> <ul style="list-style-type: none"> <li>• readOnly: 1</li> <li>• Introduced in: 9.8</li> <li>• x-nullable: true</li> </ul> |
| monitoring | <a href="#">monitoring</a> |                                                                                                                                                               |

| Name          | Type                 | Description                                                                                                                                                                   |
|---------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| rcf_version   | string               | The switch reference configuration file (RCF) version.                                                                                                                        |
| role          | string               | Switch role based on the interface configurations. Using '+' to combine multiple roles. Available role types are: cluster, multicluster, storage, multistorage, metrocluster. |
| serial_number | string               | Serial Number.                                                                                                                                                                |
| snmp          | <a href="#">snmp</a> |                                                                                                                                                                               |
| version       | string               | Software Version.                                                                                                                                                             |

### Example request

```
{
  "address": "string",
  "monitoring": {
    "reason": "string"
  },
  "rcf_version": "RCF NX9336C-FX2 v1.13 1-CLUSTER",
  "role": [
    "cluster+storage"
  ],
  "serial_number": "string",
  "snmp": {
    "user": "string",
    "version": "string"
  },
  "version": "string"
}
```

### Response

Status: 200, Ok

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

## Example response

```
{
  "job": {
    "uuid": "string"
  }
}
```

## Response

Status: 202, Accepted

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                                                                                                        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 5636148    | Failed to discover SNMPv3 engine ID of the remote switch.                                                                                          |
| 5636149    | The "<snmp.user>\\" must be a valid SNMPv3 user belonging to remote switch \\"<name.>\\" and must also be configured in ONTAP.</name.></snmp.user> |
| 5636152    | 0.0.0.0 cannot be specified as the IP address for the "<address.>\\" parameter.</address.>                                                         |
| 8912900    | Invalid IP address.                                                                                                                                |
| 9044009    | SNMPv3 client feature is not available until the effective cluster version is ONTAP 9.3 or later.                                                  |
| 12517379   | Warning&#58; Settings updated, but the IP "<address.>\\" is not reachable. Verify that the address is valid, or check the network path.</address.> |
| 12517381   | Warning&#58; Settings updated, but the SNMP validation request timed out. Verify that the "<snmp.user>\\" parameter is valid.</snmp.user>          |

| Error Code | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12517383   | Warning&#58; Settings updated, but the SNMPv3 validation request timed out. Verify that the "<snmp.user>" parameter is valid (i.e., the SNMPv3 user exists in ONTAP and on the remote switch). If the "<snmp.user>" parameter is valid, verify that the SNMPv3 user's credentials are the same both in ONTAP as well as in the remote switch. If a custom engine-id was provided for the SNMPv3 user, ensure it is the same as that of the remote switch.</snmp.user></snmp.user> |
| 12517411   | The input value for "<name.>", "<address.>" and/or "<network.>" must match its discovered value.</network.></address.></name.>                                                                                                                                                                                                                                                                                                                                                    |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

## Definitions

## See Definitions

href

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

self\_link

monitoring

| Name      | Type    | Description                |
|-----------|---------|----------------------------|
| enabled   | boolean | Enable Health Monitoring.  |
| monitored | boolean | Is Monitored.              |
| reason    | string  | Reason For Not Monitoring. |

snmp

| Name    | Type   | Description                          |
|---------|--------|--------------------------------------|
| user    | string | Community String or SNMPv3 Username. |
| version | string | SNMP Version.                        |

switch

Ethernet Switch REST API

| Name        | Type                       | Description                                                                                                                                  |
|-------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| address     | string                     | IP Address.                                                                                                                                  |
| discovered  | boolean                    | Discovered By ONTAP CDP/LLDP <ul style="list-style-type: none"><li>readOnly: 1</li><li>Introduced in: 9.8</li><li>x-nullable: true</li></ul> |
| monitoring  | <a href="#">monitoring</a> |                                                                                                                                              |
| rcf_version | string                     | The switch reference configuration file (RCF) version.                                                                                       |

| Name          | Type                 | Description                                                                                                                                                                   |
|---------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| role          | string               | Switch role based on the interface configurations. Using '+' to combine multiple roles. Available role types are: cluster, multicluster, storage, multistorage, metrocluster. |
| serial_number | string               | Serial Number.                                                                                                                                                                |
| snmp          | <a href="#">snmp</a> |                                                                                                                                                                               |
| version       | string               | Software Version.                                                                                                                                                             |

\_links

job\_link

| Name | Type   | Description                                                                               |
|------|--------|-------------------------------------------------------------------------------------------|
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

returned\_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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