# Manage Ethernet switches

## REST API reference

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# Manage Ethernet switches

## Manage Ethernet switches

### Overview

This API can be used to get information about the ethernet switches used for cluster and/or storage networks. This API support GET and PATCH calls. The GET operation returns a list of discovered switches with status and configuration information. The PATCH can be used to modify state of the switch.

### Examples

#### Retrieving the ethernet switches for a cluster

The following example retrieves the ONTAP switches from the cluster. Note that if the *fields=** parameter is not specified, the fields snmp.version, snmp.credential, model, sw-version, reason, version-source, monitoring.enable, monitoring.subsystem.type and monitoring.subsystem.poll_interval are not returned. Filters can be added on the fields to limit the results.

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

# The call:
curl -X GET "https://<mgmt-
ip>/api/network/ethernet/switches?return_records=true" -H  "accept:
application/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": {
      "monitored": true,
      "reason": "None"
    },
    "network": "cluster",
    "serial_number": "Unknown",
    "snmp": {
    "version": "snmpv2c",
    "user": "cshm1!"
  },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.2(3)",
```

```
    "_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": {
      "monitored": true,
      "reason": "None"
    },
    "network": "cluster",
    "serial_number": "FOC22373C3P",
    "snmp": {
      "version": "snmpv2c",
      "user": "cshm1!"
    },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.2(3)",
    "_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": {
      "monitored": true,
      "reason": "None"
    },
    "network": "storage",
    "serial_number": "FOC22170DFR",
    "snmp": {
      "version": "snmpv2c",
      "user": "cshm1!"
    },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version
```

```
9.3(3)",
    "_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": {
      "monitored": true,
      "reason": "None"
    },
    "network": "storage",
    "serial_number": "FOC22131U6T",
    "snmp": {
      "version": "snmpv2c",
      "user": "cshm1!"
    },
    "version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.3(3)",
    "_links": {
      "self": {
        "href": "/api/network/ethernet/switches/RTP-SS02-
510R10%28FOC22131U6T%29"
      }
    }
  }
],
"num_records": 4,
"_links": {
  "self": {
    "href": "/api/network/ethernet/switches?fields=*&return_records=true"
  }
}
}
```


#### Retrieving an ethernet switch for a cluster

The following example retrieves a single switch by the switchname using the API.

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

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

# The response:
{
"name": "RTP-SS02-510R10(FOC22131U6T)",
"address": "172.26.207.66",
"discovered": true,
"model": "NX3232C",
"monitoring": {
  "monitored": true,
  "reason": "None"
},
"network": "storage",
"serial_number": "FOC22131U6T",
"snmp": {
  "version": "snmpv2c",
  "user": "cshm1!"
},
"version": "Cisco Nexus Operating System (NX-OS) Software, Version
9.3(3)",
"_links": {
  "self": {
    "href": "/api/network/ethernet/switches/RTP-SS02-510R10(FOC22131U6T)"
  }
}
}
```

#### Configuring a switch

The following example configures SNMP credential and version on a switch.

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/network/ethernet/switches/sconqa-corduroyl-03" -H "accept: application/json" -H "Content-Type: application/hal+json" -d "{ \"snmp\": { \"version\": \"snmpv2c\", \"user\": \"cshm1!\"}}"

# The response:
{}
```

# Retrieves the ethernet switches attached to the chassis

**related ontap commands**

- `system switch ethernet show` # learn more
- [`doc /network/ethernet/switches`](#docs-networking-network_ethernet_switches)

GET `/network/ethernet/switches`

**Introduced In:** 9.8

Retrieves the ethernet switches attached to the chassis.

## Related ONTAP commands

- `system switch ethernet show`

## Learn more

- DOC /network/ethernet/switches

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| version | string | query | False | Filter by version |
| network | string | query | False | Filter by network |
| snmp.version | string | query | False | Filter by snmp.version |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| snmp.user | string | query | False | Filter by snmp.user |
| serial_number | string | query | False | Filter by serial_number |
| name | string | query | False | Filter by name |
| address | string | query | False | Filter by address |
| monitoring.reason | string | query | False | Filter by monitoring.reason |
| monitoring.monitored | boolean | query | False | Filter by monitoring.monitored |
| monitoring.enabled | boolean | query | False | Filter by monitoring.enabled |
| discovered | boolean | query | False | Filter by discovered |
| model | string | query | False | Filter by model |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned.<br>• Default value: 1 |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| return_timeout | integer | query | False | 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.<br>• Default value: 15<br>• Max value: 120<br>• 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 | collection_links | |
| num_records | integer | Number of Records |
| records | array[switch] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "address": "string",
      "model": "string",
      "monitoring": {
        "reason": "string"
      },
      "name": "string",
      "network": "string",
      "serial_number": "string",
      "snmp": {
        "user": "string",
        "version": "string"
      },
      "version": "string"
    }
  ]
}
```


## 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 | |

collection_links

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

self_link

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

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 | self_link | |
| address | string | IP Address. |

| Name | Type | Description |
|---|---|---|
| discovered | boolean | Discovered By ONTAP CDP/LLDP<br>• readOnly: 1<br>• Introduced in: 9.8 |
| model | string | Model Number. |
| monitoring | monitoring | |
| name | string | Name. |
| network | string | Switch Network. |
| serial_number | string | Serial Number. |
| snmp | snmp | |
| version | string | Software Version. |

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. |

# Retrieves the details of an ethernet switch

**related ontap commands**

- `system switch ethernet show` # learn more
- [`doc /network/ethernet/switches`](#docs-networking-network_ethernet_switches)

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 | self_link | |
| address | string | IP Address. |
| discovered | boolean | Discovered By ONTAP CDP/LLDP<br>• readOnly: 1<br>• Introduced in: 9.8 |
| model | string | Model Number. |
| monitoring | monitoring | |
| name | string | Name. |

| Name | Type | Description |
|---|---|---|
| network | string | Switch Network. |
| serial_number | string | Serial Number. |
| snmp | snmp | |
| version | string | Software Version. |

**Example response**


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "address": "string",
  "model": "string",
  "monitoring": {
    "reason": "string"
  },
  "name": "string",
  "network": "string",
  "serial_number": "string",
  "snmp": {
    "user": "string",
    "version": "string"
  },
  "version": "string"
}
```


## 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 | |

self_link

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

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 |

error

| Name | Type | Description |
|---|---|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

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

# Update ethernet switch rest api

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

**Introduced In:** 9.8

Update Ethernet Switch REST API

## Parameters

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

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| return_timeout | integer | query | False | 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.<br>• Default value: 0<br>• Max value: 120<br>• Min value: 0 |

## Request Body

| Name | Type | Description |
|---|---|---|
| address | string | IP Address. |
| discovered | boolean | Discovered By ONTAP CDP/LLDP<br>• readOnly: 1<br>• Introduced in: 9.8 |
| model | string | Model Number. |
| monitoring | monitoring | |

| Name | Type | Description |
|---|---|---|
| name | string | Name. |
| network | string | Switch Network. |
| serial_number | string | Serial Number. |
| snmp | snmp | |
| version | string | Software Version. |

**Example request**


```
{
  "address": "string",
  "model": "string",
  "monitoring": {
    "reason": "string"
  },
  "name": "string",
  "network": "string",
  "serial_number": "string",
  "snmp": {
    "user": "string",
    "version": "string"
  },
  "version": "string"
}
```


## Response

```
Status: 202, Accepted
```

| Name | Type | Description |
|---|---|---|
| job | job_link | |

**Example response**


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


## Error

```
Status: Default, Error
```

## 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<br>• readOnly: 1<br>• Introduced in: 9.8 |
| model | string | Model Number. |
| monitoring | monitoring | |
| name | string | Name. |

| Name | Type | Description |
|---|---|---|
| network | string | Switch Network. |
| serial_number | string | Serial Number. |
| snmp | snmp | |
| 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 |

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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