



Manage Ethernet switches

REST API reference

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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
monitoring.enabled	boolean	query	False	Filter by monitoring.enabled
monitoring.monitored	boolean	query	False	Filter by monitoring.monitored
monitoring.reason	string	query	False	Filter by monitoring.reason
snmp.version	string	query	False	Filter by snmp.version
snmp.user	string	query	False	Filter by snmp.user
role	string	query	False	Filter by role • Introduced in: 9.17
serial_number	string	query	False	Filter by serial_number
model	string	query	False	Filter by model
address	string	query	False	Filter by address
name	string	query	False	Filter by name
discovered	boolean	query	False	Filter by discovered
network	string	query	False	Filter by network

Name	Type	In	Required	Description
rcf_version	string	query	False	Filter by rcf_version Introduced in: 9.17
version	string	query	False	Filter by 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	The default is true for GET calls. When set to false, only the number of records is returned. Default value: 1
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. - Default value: 15 - 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	collection_links	
num_records	integer	Number of Records
records	array[switch]	

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	returned_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 • readOnly: 1 • Introduced in: 9.8 • x-nullable: true
model	string	Model Number.
monitoring	monitoring	
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	snmp	
version	string	Software Version.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

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	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. • Default value: 0 • Max value: 120 • Min value: 0
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
address	string	IP Address.

Name	Type	Description
discovered	boolean	Discovered By ONTAP CDP/LLDP - readOnly: 1 - Introduced in: 9.8 - x-nullable: true
model	string	Model Number.
monitoring	monitoring	
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	snmp	
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	job_link	

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: {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 - readOnly: 1 - Introduced in: 9.8 - x-nullable: true
model	string	Model Number.
monitoring	monitoring	
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	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

returned_error

Name	Type	Description
arguments	array[error_arguments]	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	returned_error	

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[error_arguments]	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	self_link	
address	string	IP Address.
discovered	boolean	Discovered By ONTAP CDP/LLDP • readOnly: 1 • Introduced in: 9.8 • x-nullable: true
model	string	Model Number.
monitoring	monitoring	
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	snmp	
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	returned_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

returned_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 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	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. • Default value: 0 • Max value: 120 • Min value: 0

Request Body

Name	Type	Description
address	string	IP Address.
discovered	boolean	Discovered By ONTAP CDP/LLDP • readOnly: 1 • Introduced in: 9.8 • x-nullable: true
monitoring	monitoring	

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	snmp	
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	job_link	

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: Settings updated, but the IP "<address.>" is not reachable. Verify that the address is valid, or check the network path.</address.>
12517381	Warning: Settings updated, but the SNMP validation request timed out. Verify that the "<snmp.user>\\" parameter is valid.</snmp.user>

Error Code	Description
12517383	Warning: 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 - readOnly: 1 - Introduced in: 9.8 - x-nullable: true
monitoring	monitoring	
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	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

returned_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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