



# Retrieve cluster chassis

ONTAP 9.14.1 REST API reference

NetApp  
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# Retrieve cluster chassis

## Cluster chassis endpoint overview

### Overview

You can use the chassis GET API to retrieve all of the chassis information in the cluster.

### Examples

#### Retrieving a list of chassis from the cluster

The following example shows the response with a list of chassis in the cluster:

```
# The API:
/api/cluster/chassis

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/chassis" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "id": "021352005981",
      "_links": {
        "self": {
          "href": "/api/cluster/chassis/021352005981"
        }
      }
    },
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/cluster/chassis"
    }
  }
}
```

---

#### Retrieving a specific chassis from the cluster

The following example shows the response of the requested chassis. If there is no chassis with the requested

ID, an error is returned.

```
# The API:
/api/cluster/chassis/{id}

# The call:
curl -X GET "https://<mgmt-ip>/api/cluster/chassis/021352005981" -H
"accept: application/hal+json"

# The response:
{
  "id": "021352005981",
  "state": "ok",
  "nodes": [
    {
      "name": "node-1",
      "uuid": "6ede364b-c3d0-11e8-a86a-00a098567f31",
      "position": "top",
      "usbs": {
        "supported": true,
        "enabled": true,
        "ports": [
          {
            "connected": false
          }
        ]
      },
      "pcis": {
        "cards": [
          {
            "slot": "0",
            "device": "Gigabit Ethernet I210",
            "info": "\t e0M MAC Address:    d0:39:ea:3f:06:2b (auto-1000t-
fd-up) \n\t e0S MAC Address:    d0:39:ea:3f:06:2c (auto-1000t-fd-up) \n\t
Device Type:          1533\n\t Firmware Version:    3.25-0.0 0x800005D1\n"
          },
          {
            "slot": "0",
            "device": "Intel Lewisburg series chipset SATA Controller",
            "info": "\t Additional Info: 0 (0xaaaf0000) \n\t
SHM2S86Q120GLM22NP FW1146 114473MB 512B/sect (SPG190108HJ) \n"
          }
        ]
      },
      "_links": {
        "self": {
```

```

        "href": "/api/cluster/nodes/6ede364b-c3d0-11e8-a86a-00a098567f31"
    }
}
],
"frus": [
    {
        "id": "PSU2",
        "type": "psu",
        "state": "ok"
    },
    {
        "id": "PSU1",
        "type": "psu",
        "state": "ok"
    },
    {
        "id": "Fan2",
        "type": "fan",
        "state": "ok"
    },
    {
        "id": "Fan3",
        "type": "fan",
        "state": "ok"
    },
    {
        "id": "Fan1",
        "type": "fan",
        "state": "ok"
    }
],
"_links": {
    "self": {
        "href": "/api/cluster/chassis/021352005981"
    }
}
}
}

```

## Retrieve a collection of chassis

GET /cluster/chassis

**Introduced In:** 9.6

Retrieves a collection of chassis.

## Related ONTAP commands

- `system chassis show`
- `system chassis fru show`

## Learn more

- [DOC /cluster/chassis](#)

## Parameters

Name	Type	In	Required	Description
state	string	query	False	Filter by state
nodes.name	string	query	False	Filter by nodes.name
nodes.pcis.cards.slot	string	query	False	Filter by nodes.pcis.cards.slot  • Introduced in: 9.9
nodes.pcis.cards.device	string	query	False	Filter by nodes.pcis.cards.device  • Introduced in: 9.9
nodes.pcis.cards.info	string	query	False	Filter by nodes.pcis.cards.info  • Introduced in: 9.9
nodes.position	string	query	False	Filter by nodes.position  • Introduced in: 9.8
nodes.uuid	string	query	False	Filter by nodes.uuid

Name	Type	In	Required	Description
nodes.usbs.supported	boolean	query	False	Filter by nodes.usbs.supported  • Introduced in: 9.9
nodes.usbs.ports.connected	boolean	query	False	Filter by nodes.usbs.ports.connected  • Introduced in: 9.9
nodes.usbs.enabled	boolean	query	False	Filter by nodes.usbs.enabled  • Introduced in: 9.9
shelves.uid	string	query	False	Filter by shelves.uid
frus.id	string	query	False	Filter by frus.id
frus.state	string	query	False	Filter by frus.state
frus.type	string	query	False	Filter by frus.type
id	string	query	False	Filter by id
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

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records.
records	array[ <a href="#">chassis</a> ]	



## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "frus": {
      "state": "ok",
      "type": "fan"
    },
    "id": "021352005981",
    "nodes": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "pcis": {
        "cards": {
          "device": "Intel Lewisburg series chipset SATA Controller",
          "info": "Additional Info: 0 (0xaaf00000)  SHM2S86Q120GLM22NP
FW1146 114473MB 512B/sect (SPG190108GW)",
          "slot": "0"
        }
      },
      "position": "top",
      "usbs": {
        "ports": {
        }
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "shelves": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    }
  },
}
```

```
    "uid": "7777841915827391056"
  },
  "state": "ok"
}
```

## 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	

\_links

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

frus

Name	Type	Description
id	string	
state	string	
type	string	

\_links

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

cards

Name	Type	Description
device	string	The description of the PCI card.
info	string	The info string from the device driver of the PCI card.
slot	string	The slot where the PCI card is placed. This can sometimes take the form of "6-1" to indicate slot and subslot.

pcis

Name	Type	Description
cards	array[ <a href="#">cards</a> ]	

ports

Name	Type	Description
connected	boolean	Indicates whether or not the USB port has a device connected to it.

usbs

The status of the USB ports on the controller.

Name	Type	Description
enabled	boolean	Indicates whether or not the USB ports are enabled.
ports	array[ports]	
supported	boolean	Indicates whether or not USB ports are supported on the current platform.

nodes

List of nodes in chassis.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
pcis	<a href="#">pcis</a>	
position	string	The position of the node in the chassis, when viewed from the rear of the system.
usbs	<a href="#">usbs</a>	The status of the USB ports on the controller.
uuid	string	

shelf\_reference

Shelf

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

chassis

Name	Type	Description
frus	array[frus]	List of FRUs in the chassis.
id	string	
nodes	array[nodes]	List of nodes in the chassis.
shelves	array[shelf_reference]	List of shelves in chassis.
state	string	

#### 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 a chassis

GET /cluster/chassis/{id}

**Introduced In:** 9.6

Retrieves a specific chassis.

### Related ONTAP commands

- `system chassis show`
- `system chassis fru show`

## Learn more

- [DOC /cluster/chassis](#)

## Parameters

Name	Type	In	Required	Description
id	string	path	True	Chassis ID
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
frus	array[ <a href="#">frus</a> ]	List of FRUs in the chassis.
id	string	
nodes	array[ <a href="#">nodes</a> ]	List of nodes in the chassis.
shelves	array[ <a href="#">shelf_reference</a> ]	List of shelves in chassis.
state	string	

## Example response

```
{
  "frus": {
    "state": "ok",
    "type": "fan"
  },
  "id": "021352005981",
  "nodes": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "pcis": {
      "cards": {
        "device": "Intel Lewisburg series chipset SATA Controller",
        "info": "Additional Info: 0 (0xaaf00000) SHM2S86Q120GLM22NP
FW1146 114473MB 512B/sect (SPG190108GW)",
        "slot": "0"
      }
    },
    "position": "top",
    "usbs": {
      "ports": {
      }
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "shelves": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uid": "7777841915827391056"
  },
  "state": "ok"
}
```

## 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

frus

Name	Type	Description
id	string	
state	string	
type	string	

href

Name	Type	Description
href	string	

\_links

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

cards

Name	Type	Description
device	string	The description of the PCI card.
info	string	The info string from the device driver of the PCI card.
slot	string	The slot where the PCI card is placed. This can sometimes take the form of "6-1" to indicate slot and subslot.

pcis

Name	Type	Description
cards	array[ <a href="#">cards</a> ]	

ports

Name	Type	Description
connected	boolean	Indicates whether or not the USB port has a device connected to it.

usbs

The status of the USB ports on the controller.

Name	Type	Description
enabled	boolean	Indicates whether or not the USB ports are enabled.
ports	array[ports]	
supported	boolean	Indicates whether or not USB ports are supported on the current platform.

nodes

List of nodes in chassis.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
pcis	<a href="#">pcis</a>	
position	string	The position of the node in the chassis, when viewed from the rear of the system.
usbs	<a href="#">usbs</a>	The status of the USB ports on the controller.
uuid	string	

shelf\_reference

Shelf

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

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_error

<b>Name</b>	<b>Type</b>	<b>Description</b>
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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