Retrieve cluster chassis

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 (0xaaf00000)   \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
frus.state	string	query	False	Filter by frus.state
frus.id	string	query	False	Filter by frus.id
frus.type	string	query	False	Filter by frus.type
id	string	query	False	Filter by id
state	string	query	False	Filter by state
nodes.usbs.enabled	boolean	query	False	Filter by nodes.usbs.enabled • Introduced in: 9.9
nodes.usbs.ports.connected	boolean	query	False	Filter by nodes.usbs.ports.connected • Introduced in: 9.9
nodes.usbs.supported	boolean	query	False	Filter by nodes.usbs.supported • Introduced in: 9.9
nodes.name	string	query	False	Filter by nodes.name
nodes.uuid	string	query	False	Filter by nodes.uuid

Name	Type	In	Required	Description
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.pcis.cards.slot	string	query	False	Filter by nodes.pcis.cards.slot • Introduced in: 9.9
nodes.position	string	query	False	Filter by nodes.position • Introduced in: 9.8
shelves.uid	string	query	False	Filter by shelves.uid
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	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: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[chassis]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "frus": [
        {
          "id": "string",
          "state": "string",
          "type": "string"
        }
      ],
      "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": "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	

_links

Name	Type	Description
next	href	
self	href	

frus

Name	Type	Description
id	string	
state	string	
type	string	

_links

Name	Type	Description
self	href	

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[cards]	

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	_links	
name	string	
pcis	pcis	
position	string	The Position of the Node in the Chassis
usbs	usbs	The status of the USB ports on the controller.
uuid	string	

shelf_reference

Shelf

Name	Type	Description
_links	_links	
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

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[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	

Example response


```
{
  "frus": [
    {
      "id": "string",
      "state": "string",
      "type": "string"
    }
  ],
  "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": "77778419158273910 56"
```

```
      }
    ],
    "state": "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

frus

Name	Type	Description
id	string	
state	string	
type	string	

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

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[cards]	

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	_links	
name	string	
pcis	pcis	
position	string	The Position of the Node in the Chassis
usbs	usbs	The status of the USB ports on the controller.
uuid	string	

shelf_reference

Shelf

Name	Type	Description
_links	_links	
uid	string	

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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