



## **Manage disks**

### **ONTAP 9.6 REST API reference**

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# Manage disks

## Storage disks endpoint overview

### Retrieving storage disk information

The storage disk GET API retrieves all of the disks in the cluster.

### Examples

#### 1) Retrieve a list of disks from the cluster

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

```
# The API:
/api/storage/disks

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

# The response:
{
  "records": [
    {
      "name": "1.24.4",
      "_links": {
        "self": {
          "href": "/api/storage/disks/1.24.4"
        }
      }
    },
    {
      "name": "1.24.3",
      "_links": {
        "self": {
          "href": "/api/storage/disks/1.24.3"
        }
      }
    },
    {
      "name": "1.24.5",
      "_links": {
```

```

    "self": {
      "href": "/api/storage/disks/1.24.5"
    }
  },
  {
    "name": "1.24.0",
    "_links": {
      "self": {
        "href": "/api/storage/disks/1.24.0"
      }
    }
  },
  {
    "name": "1.24.2",
    "_links": {
      "self": {
        "href": "/api/storage/disks/1.24.2"
      }
    }
  },
  {
    "name": "1.24.1",
    "_links": {
      "self": {
        "href": "/api/storage/disks/1.24.1"
      }
    }
  }
],
"num_records": 6,
"_links": {
  "self": {
    "href": "/api/storage/disks"
  }
}
}

```

## 2) Retrieve a specific disk from the cluster

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

```

# The API:
/api/storage/disks/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/disks/1.24.3" -H "accept:
application/hal+json"

# The response:
{
  "name": "1.24.3",
  "uid":
  "50000394:0808AA88:00000000:00000000:00000000:00000000:00000000:00000000:00000000:00000000",
  "serial_number": "EC47PC5021SW",
  "model": "X421_FAL12450A10",
  "vendor": "NETAPP",
  "firmware_version": "NA02",
  "usable_size": 438304768000,
  "rpm": 10000,
  "type": "sas",
  "class": "performance",
  "container_type": "aggregate",
  "pool": "pool0",
  "state": "present",
  "node": {
    "uuid": "3a89ed49-8c6d-11e8-93bc-00a0985a64b6",
    "name": "node-2",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/3a89ed49-8c6d-11e8-93bc-00a0985a64b6"
      }
    }
  },
  "home_node": {
    "uuid": "3a89ed49-8c6d-11e8-93bc-00a0985a64b6",
    "name": "node-2",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/3a89ed49-8c6d-11e8-93bc-00a0985a64b6"
      }
    }
  },
  "aggregates": [
    {
      "uuid": "3fd9c345-ba91-4949-a7b1-6e2b898d74e3",
      "name": "node_2_SAS_1",

```

```

    "_links": {
      "self": {
        "href": "/api/storage/aggregates/3fd9c345-ba91-4949-a7b1-6e2b898d74e3"
      }
    }
  },
  "shelf": {
    "uid": "10318311901725526608",
    "_links": {
      "self": {
        "href": "/api/storage/shelves/10318311901725526608"
      }
    }
  },
  "bay": 3,
  "_links": {
    "self": {
      "href": "/api/storage/disks/1.24.3"
    }
  }
}

```

## Retrieve a collection of disks

GET /storage/disks

Retrieves a collection of disks.

### Related ONTAP commands

- `storage disk show`

### Learn more

- [DOC /storage/disks](#)

### Parameters

Name	Type	In	Required	Description
node.name	string	query	False	Filter by node.name
node.uuid	string	query	False	Filter by node.uuid

<b>Name</b>	<b>Type</b>	<b>In</b>	<b>Required</b>	<b>Description</b>
bay	string	query	False	Filter by bay
vendor	string	query	False	Filter by vendor
dr_node.uuid	string	query	False	Filter by dr_node.uuid
dr_node.name	string	query	False	Filter by dr_node.name
rpm	integer	query	False	Filter by rpm
serial_number	string	query	False	Filter by serial_number
shelf.uuid	string	query	False	Filter by shelf.uuid
pool	string	query	False	Filter by pool
usable_size	integer	query	False	Filter by usable_size
home_node.name	string	query	False	Filter by home_node.name
home_node.uuid	string	query	False	Filter by home_node.uuid
model	string	query	False	Filter by model
aggregates.uuid	string	query	False	Filter by aggregates.uuid
aggregates.name	string	query	False	Filter by aggregates.name
type	string	query	False	Filter by type
state	string	query	False	Filter by state
name	string	query	False	Filter by name
rated_life_used_percent	integer	query	False	Filter by rated_life_used_percent

Name	Type	In	Required	Description
firmware_version	string	query	False	Filter by firmware_version
uid	string	query	False	Filter by uid
class	string	query	False	Filter by class
drawer.slot	integer	query	False	Filter by drawer.slot
drawer.id	integer	query	False	Filter by drawer.id
container_type	string	query	False	Filter by container_type
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.
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.
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="#">disk</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "aggregates": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "aggr1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      ],
      "bay": 1,
      "class": "solid_state",
      "container_type": "spare",
      "dr_node": {
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "firmware_version": "NA51",
      "home_node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "model": "X421_HCOBE450A10",
      "name": "1.0.1",
      "node": {
        "_links": {
          "self": {
```

```

        "href": "/api/resourcelink"
    },
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"pool": "pool0",
"rated_life_used_percent": 10,
"rpm": 15000,
"serial_number": "KHG2VX8R",
"shelf": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "uid": 7777841915827391056
},
"state": "present",
"type": "ssd",
"uid":
"002538E5:71B00B2F:00000000:00000000:00000000:00000000:00000000:00000000:00000000:00000000",
  "usable_size": 959934889984,
  "vendor": "NETAPP"
}
]
}

```

## 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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

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

aggregates

Aggregate

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

dr\_node

Name	Type	Description
name	string	
uuid	string	

drawer

Name	Type	Description
id	integer	
slot	integer	

home\_node

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

Name	Type	Description
name	string	
uuid	string	

node

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

shelf\_reference

Shelf

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

disk

Name	Type	Description
aggregates	array[ <a href="#">aggregates</a> ]	List of aggregates sharing this disk
bay	string	Disk shelf bay
class	string	Disk class
container_type	string	Type of overlying disk container
dr_node	<a href="#">dr_node</a>	
drawer	<a href="#">drawer</a>	
firmware_version	string	
home_node	<a href="#">home_node</a>	
model	string	
name	string	Cluster-wide disk name
node	<a href="#">node</a>	
pool	string	Pool to which disk is assigned

Name	Type	Description
rated_life_used_percent	integer	Percentage of rated life used
rpm	integer	Revolutions per minute
serial_number	string	
shelf	<a href="#">shelf_reference</a>	Shelf
state	string	State
type	string	Disk interface type
uid	string	The unique identifier for a disk
usable_size	integer	
vendor	string	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### 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 a specific disk

GET /storage/disks/{name}

Retrieves a specific disk.

## Related ONTAP commands

- `storage disk show`

## Learn more

- [DOC /storage/disks](#)

## Parameters

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

## Response

```
Status: 200, Ok
```

Name	Type	Description
aggregates	array[ <a href="#">aggregates</a> ]	List of aggregates sharing this disk
bay	string	Disk shelf bay
class	string	Disk class
container_type	string	Type of overlying disk container
dr_node	<a href="#">dr_node</a>	
drawer	<a href="#">drawer</a>	
firmware_version	string	
home_node	<a href="#">home_node</a>	
model	string	
name	string	Cluster-wide disk name
node	<a href="#">node</a>	
pool	string	Pool to which disk is assigned
rated_life_used_percent	integer	Percentage of rated life used



<b>Name</b>	<b>Type</b>	<b>Description</b>
rpm	integer	Revolutions per minute
serial_number	string	
shelf	<a href="#">shelf_reference</a>	Shelf
state	string	State
type	string	Disk interface type
uid	string	The unique identifier for a disk
usable_size	integer	
vendor	string	

## Example response

```
{
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "bay": 1,
  "class": "solid_state",
  "container_type": "spare",
  "dr_node": {
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "firmware_version": "NA51",
  "home_node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "model": "X421_HCOBE450A10",
  "name": "1.0.1",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "pool": "pool0",
  "rated_life_used_percent": 10,
  "rpm": 15000,
  "serial_number": "KHG2VX8R",
}
```

```

"shelf": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "uid": 7777841915827391056
},
"state": "present",
"type": "ssd",
"uid":
"002538E5:71B00B2F:00000000:00000000:00000000:00000000:00000000:00000000:00000000:00000000",
"usable_size": 959934889984,
"vendor": "NETAPP"
}

```

## 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
self	<a href="#">href</a>	

aggregates

Aggregate

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

dr\_node

Name	Type	Description
name	string	
uuid	string	

drawer

Name	Type	Description
id	integer	
slot	integer	

home\_node

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

node

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

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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