



Manage disks

REST API reference

NetApp

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Manage disks

Manage disks

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":
    "50000394:0808AA88:00000000:00000000:00000000:00000000:00000000:00000000:0
    0000000:00000000",
  "serial_number": "EC47PC5021SW",
  "model": "X421_FAL12450A10",
  "vendor": "NETAPP",
  "firmware_version": "NA02",
  "usable_size": 438304768000,
  "rpm": 10000,
  "type": "sas",
  "effective_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"
      }
    }
  },
  "local": true,
  "paths": [
    {
      "initiator": "3a",
      "port_name": "B",
      "port_type": "sas",
      "wwnn": "5000cca02f0e6768",
      "wwpn": "5000cca02f0e676a",
      "node": {
        "name": "vsim3",
        "uuid": "3f7fa09a-5c56-11ec-b366-005056bbbb3f",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/3f7fa09a-5c56-11ec-b366-005056bbbb3f"
          }
        }
      }
    },
    {
      "initiator": "3d",
      "port_name": "A",
      "port_type": "sas",
      "wwnn": "5000cca02f0e6768",
      "wwpn": "5000cca02f0e6769",
      "node": {
        "name": "vsim4",
        "uuid": "4f7fa09a-5c56-11ec-b366-005056bbbb3f",
        "_links": {

```

```

        "self": {
            "href": "/api/cluster/nodes/4f7fa09a-5c56-11ec-b366-005056bbbb3f"
        }
    },
    {
        "initiator": "3d",
        "port_name": "A",
        "port_type": "sas",
        "wwnn": "5000cca02f0e6768",
        "wwpn": "5000cca02f0e6769",
        "node": {
            "name": "vsim3",
            "uuid": "3f7fa09a-5c56-11ec-b366-005056bbbb3f",
            "_links": {
                "self": {
                    "href": "/api/cluster/nodes/3f7fa09a-5c56-11ec-b366-005056bbbb3f"
                }
            }
        }
    },
    {
        "initiator": "3a",
        "port_name": "B",
        "port_type": "sas",
        "wwnn": "5000cca02f0e6768",
        "wwpn": "5000cca02f0e676a",
        "node": {
            "name": "vsim4",
            "uuid": "4f7fa09a-5c56-11ec-b366-005056bbbb3f",
            "_links": {
                "self": {
                    "href": "/api/cluster/nodes/4f7fa09a-5c56-11ec-b366-005056bbbb3f"
                }
            }
        }
    }
],
"outage": {
    "persistently_failed": true,
    "reason": {
        "message": "Failed disk. Reason: \"admin failed\".",

```

```

    "code": "721081"
  },
  "bay": 3,
  "_links": {
    "self": {
      "href": "/api/storage/disks/1.24.3"
    }
  },
  "error": [
    {
      "reason": {
        "message": "\"The node is configured with All-Flash Optimized personality and this disk is not an SSD. The disk needs to be removed from the system.\"",
        "code": "721082"
      },
      "type": "notallflashdisk"
    }
  ],
  "bytes_per_sector": 512,
  "sector_count": 1172123568,
  "right_size_sector_count": 5579776,
  "physical_size": 438804988000,
  "stats": {
    "average_latency": 6,
    "throughput": 1957888,
    "iops_total": 12854,
    "path_error_count": 0,
    "power_on_hours": 11797
  }
}

```

3) Retrieving a specific disk from the hypervisor

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/NET-3.2" -H "accept:

```



```
application/hal+json"
```

```
# The response:
```

```
{
  "name": "NET-3.2",
  "uid":
    "32343637:65386464:00000000:00000000:00000000:00000000:00000000:00000000:0
    0000000:00000000",
  "serial_number": "3234363765386464",
  "model": "PHA-DISK",
  "vendor": "NETAPP",
  "firmware_version": "0001",
  "type": "vmdisk",
  "class": "virtual",
  "container_type": "mediator",
  "pool": "pool0",
  "node": {
    "uuid": "f4cb78ba-5841-11ec-80c4-916f62b4cd44",
    "name": "example_node_name",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/f4cb78ba-5841-11ec-80c4-
916f62b4cd44"
      }
    }
  },
  "home_node": {
    "uuid": "f4cb78ba-5841-11ec-80c4-916f62b4cd44",
    "name": "example_node_name",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/f4cb78ba-5841-11ec-80c4-
916f62b4cd44"
      }
    }
  },
  "local": true,
  "paths": [
    {
      "initiator": "0f",
      "port_name": "A",
      "port_type": "sas",
      "wwnn": "53059d50444f5476",
      "wwpn": "53059d50444f5476",
      "vmdisk_hypervisor_file_name": "LUN 4.0",
      "node": {
```

```

        "name": "example_node_name",
        "uuid": "f4cb78ba-5841-11ec-80c4-916f62b4cd44",
        "_links": {
            "self": {
                "href": "/api/cluster/nodes/f4cb78ba-5841-11ec-80c4-
916f62b4cd44"
            }
        }
    },
    {
        "initiator": "0f",
        "port_name": "A",
        "port_type": "sas",
        "wwnn": "53059d50444f5476",
        "wwpn": "53059d50444f5476",
        "vmdisk_hypervisor_file_name": "LUN 2.0",
        "node": {
            "name": "example_node_name",
            "uuid": "f4cb78ba-5841-11ec-80c4-916f62b4cd44",
            "_links": {
                "self": {
                    "href": "/api/cluster/nodes/f4cb78ba-5841-11ec-80c4-
916f62b4cd44"
                }
            }
        }
    }
],
"outage": {
    "persistently_failed": false,
    "reason": {
        "message": "Failed disk. Reason: \"\".",
        "code": "721081"
    }
},
"self_encrypting": false,
"fips_certified": false,
"bytes_per_sector": 512,
"sector_count": 204808,
"right_size_sector_count": 5579776,
"physical_size": 204808,
"stats": {
    "average_latency": 2157188883,
    "throughput": 4096,
    "iops_total": 1,

```

```
    "path_error_count": 0,
    "power_on_hours": 0
  },
  "_links": {
    "self": {
      "href": "/api/storage/disks/NET-3.2"
    }
  }
}
```

Modifying storage disk

The storage disk PATCH API modifies disk ownership, unfails a disk, updates encrypting drive authentication keys (AKs), sanitizes encrypting drives, or sanitizes non-encrypting spare drives in the cluster. The storage disk API currently supports patching one attribute at a time.

Updating the disk ownership for a specified disk. Disk ownership cannot be updated on the ASA r2 platform.

1. When the disk is not assigned

When the disk is a spare (or unowned) disk and node name is specified, the PATCH operation assigns the disk to the specified node. Optionally, pool name can also be specified along with node name. Accepted pool names are: pool0, pool1.

2. When the disk is already assigned

When the disk is already assigned (already has a owner), and a new node is specified, the PATCH operation changes the ownership to the new node. Optionally, pool name can also be specified along with node name. Accepted pool names are: pool0, pool1.

Removing the disk ownership for a specified disk

When the disk is already assigned, and node name is specified as null (no-quotes), the PATCH operation removes the owner.

Examples

1. Update the disk ownership for an unowned disk

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>" -H
"accept: application/hal+json" -H "Content-Type: application/hal+json" -d
'{"node": {"name": "node-name"}}'

# The response:
{
}
```

2. Update the disk ownership for an already owned disk

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>" -H
"accept: application/hal+json" -H "Content-Type: application/hal+json" -d
'{"node": {"name": "node-name"}}'

# The response:
{
}
```

3. Update the disk pool for a disk (can be either owned or unowned).

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>" -H
"accept: application/hal+json" -H "Content-Type: application/hal+json" -d
'{"node": {"name": "node-name"}, "pool": "pool0"}'

# The response:
{
}
```

4. Rekey the data authentication key (AK) of all encrypting drives to an authentication key (AK) selected automatically by the system

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

# The call:
curl -X PATCH "https://<mgmt-
ip>/api/storage/disks?name=*&encryption_operation=rekey_data_auto_id" -H
"accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response contains the number of disks attempted.
{
  "num_records": 32
}
```

5. Cryptographically sanitize a spare or broken disk

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>&encryption_operation=sanitize_disk" -H "accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response contains the number of disks attempted.
{
  "num_records": 1
}
```

6. Unfailing a disk to a spare.

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>" -d '{"state": "spare"}' -H "accept: application/hal+json" -H "Content-Type: application/hal+json"

# The response:
{
}
```

7. Unfailing a disk and attempting to reassimilate filesystem labels.

If unable or unnecessary to reassimilate filesystem labels, the disk will be set as spare.

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>" -d
'{"state": "present"}' -H "accept: application/hal+json" -H "Content-Type:
application/hal+json"

# The response:
{
}
```

8. Sanitize spare disks (non-cryptographically)

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

# The call:
curl -X PATCH "https://<mgmt-ip>/api/storage/disks?name=<disk-name>" -d
'{"sanitize_spare": "true"}' -H "accept: application/hal+json" -H
"Content-Type: application/hal+json"

# The response:
{
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/storage/disks?name=<disk-name>"
    }
  }
}
```

Retrieve a collection of disks

GET /storage/disks

Introduced In: 9.6

Retrieves a collection of disks.

Related ONTAP commands

- `storage disk show`

Learn more

- [DOC /storage/disks](#)

Parameters

Name	Type	In	Required	Description
storage_pool.uuid	string	query	False	Filter by storage_pool.uuid • Introduced in: 9.11
storage_pool.name	string	query	False	Filter by storage_pool.name • Introduced in: 9.11
shelf.uid	string	query	False	Filter by shelf.uid
location	string	query	False	Filter by location • Introduced in: 9.14
overall_security	string	query	False	Filter by overall_security • Introduced in: 9.11
model	string	query	False	Filter by model
physical_size	integer	query	False	Filter by physical_size • Introduced in: 9.11
paths.port_name	string	query	False	Filter by paths.port_name • Introduced in: 9.9

Name	Type	In	Required	Description
paths.wwnn	string	query	False	Filter by paths.wwnn • Introduced in: 9.9
paths.wwpn	string	query	False	Filter by paths.wwpn • Introduced in: 9.9
paths.vmdisk_hypervisor_file_name	string	query	False	Filter by paths.vmdisk_hypervisor_file_name • Introduced in: 9.11
paths.node.uuid	string	query	False	Filter by paths.node.uuid • Introduced in: 9.11
paths.node.name	string	query	False	Filter by paths.node.name • Introduced in: 9.11
paths.port_type	string	query	False	Filter by paths.port_type • Introduced in: 9.9
paths.initiator	string	query	False	Filter by paths.initiator • Introduced in: 9.9
paths.disk_path_name	string	query	False	Filter by paths.disk_path_name • Introduced in: 9.14

Name	Type	In	Required	Description
error.reason.arguments.code	string	query	False	Filter by error.reason.arguments.code • Introduced in: 9.10
error.reason.arguments.message	string	query	False	Filter by error.reason.arguments.message • Introduced in: 9.10
error.reason.message	string	query	False	Filter by error.reason.message • Introduced in: 9.9
error.reason.code	string	query	False	Filter by error.reason.code • Introduced in: 9.9
error.type	string	query	False	Filter by error.type • Introduced in: 9.9
pool	string	query	False	Filter by pool
name	string	query	False	Filter by name
aggregates.uuid	string	query	False	Filter by aggregates.uuid
aggregates.name	string	query	False	Filter by aggregates.name
protection_mode	string	query	False	Filter by protection_mode • Introduced in: 9.7

Name	Type	In	Required	Description
bay	integer	query	False	Filter by bay
effective_type	string	query	False	Filter by effective_type • Introduced in: 9.9
control_standard	string	query	False	Filter by control_standard • Introduced in: 9.11
bytes_per_sector	integer	query	False	Filter by bytes_per_sector • Introduced in: 9.9
sector_count	integer	query	False	Filter by sector_count • Introduced in: 9.9
usable_size	integer	query	False	Filter by usable_size
virtual.container	string	query	False	Filter by virtual.container • Introduced in: 9.11
virtual.target_addresses	string	query	False	Filter by virtual.target_addresses • Introduced in: 9.13
virtual.storage_account	string	query	False	Filter by virtual.storage_account • Introduced in: 9.11

Name	Type	In	Required	Description
virtual.object	string	query	False	Filter by virtual.object • Introduced in: 9.11
fips_certified	boolean	query	False	Filter by fips_certified • Introduced in: 9.7
class	string	query	False	Filter by class
rpm	integer	query	False	Filter by rpm
dr_node.uuid	string	query	False	Filter by dr_node.uuid
dr_node.name	string	query	False	Filter by dr_node.name
firmware_version	string	query	False	Filter by firmware_version
serial_number	string	query	False	Filter by serial_number
vendor	string	query	False	Filter by vendor
home_node.uuid	string	query	False	Filter by home_node.uuid
home_node.name	string	query	False	Filter by home_node.name
uid	string	query	False	Filter by uid
drawer.id	integer	query	False	Filter by drawer.id
drawer.slot	integer	query	False	Filter by drawer.slot

Name	Type	In	Required	Description
outage.persistently_failed	boolean	query	False	Filter by outage.persistently_failed • Introduced in: 9.9
outage.reason.arguments.code	string	query	False	Filter by outage.reason.arguments.code • Introduced in: 9.10
outage.reason.arguments.message	string	query	False	Filter by outage.reason.arguments.message • Introduced in: 9.10
outage.reason.message	string	query	False	Filter by outage.reason.message • Introduced in: 9.9
outage.reason.code	string	query	False	Filter by outage.reason.code • Introduced in: 9.9
compliance_standard	string	query	False	Filter by compliance_standard • Introduced in: 9.11
local	boolean	query	False	Filter by local • Introduced in: 9.9

Name	Type	In	Required	Description
stats.path_error_count	integer	query	False	Filter by stats.path_error_count • Introduced in: 9.9
stats.average_latency	integer	query	False	Filter by stats.average_latency • Introduced in: 9.9
stats.power_on_hours	integer	query	False	Filter by stats.power_on_hours • Introduced in: 9.9
stats.iops_total	integer	query	False	Filter by stats.iops_total • Introduced in: 9.9
stats.throughput	integer	query	False	Filter by stats.throughput • Introduced in: 9.9
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
self_encrypting	boolean	query	False	Filter by self_encrypting • Introduced in: 9.7
container_type	string	query	False	Filter by container_type
type	string	query	False	Filter by type

Name	Type	In	Required	Description
key_id.data	string	query	False	Filter by key_id.data • Introduced in: 9.7
key_id.fips	string	query	False	Filter by key_id.fips • Introduced in: 9.7
rated_life_used_percent	integer	query	False	Filter by rated_life_used_percent
state	string	query	False	Filter by state
right_size_sector_count	integer	query	False	Filter by right_size_sector_count • Introduced in: 9.11
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: 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	_links	
num_records	integer	Number of records
records	array[disk]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "aggregates": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "aggr1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      ],
      "bay": 1,
      "bytes_per_sector": 520,
      "class": "solid_state",
      "compliance_standard": "FIPS 140-2",
      "container_type": "spare",
      "control_standard": "TCG Enterprise",
      "dr_node": {
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "effective_type": "vmdisk",
      "encryption_operation": "string",
      "error": [
        {
          "reason": {
            "arguments": [
              {
                "code": "string",
                "message": "string"
              }
            ]
          }
        }
      ],
    }
  ],
}
```

```

        "code": "4",
        "message": "entry doesn't exist"
    },
    "type": "notallflashdisk"
}
],
"firmware_version": "NA51",
"home_node": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"key_id": {
    "data": "string",
    "fips": "string"
},
"location": "node-01",
"model": "X421_HCOBE450A10",
"name": "1.0.1",
"node": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"outage": {
    "reason": {
        "arguments": [
            {
                "code": "string",
                "message": "string"
            }
        ],
        "code": "4",
        "message": "entry doesn't exist"
    }
},
"overall_security": "Level 2",
"paths": [

```

```

    {
      "disk_path_name": "vsim4:3a.10",
      "initiator": "3a",
      "node.name": "vsim4",
      "node.uuid": "cf7fe057-526d-11ec-af4e-0050568e9df0",
      "port_name": "A",
      "port_type": "sas",
      "vmdisk_hypervisor_file_name": "xvds vol0a0567ae156ca59f6",
      "wwnn": "5000c2971c1b2b8c",
      "wwpn": "5000c2971c1b2b8d"
    }
  ],
  "physical_size": 228930,
  "pool": "pool0",
  "protection_mode": "data",
  "rated_life_used_percent": 10,
  "right_size_sector_count": 1172123568,
  "rpm": 15000,
  "sector_count": 1172123568,
  "serial_number": "KHG2VX8R",
  "shelf": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uid": "7777841915827391056"
  },
  "state": "present",
  "stats": {
    "average_latency": 3,
    "iops_total": 12854,
    "path_error_count": 0,
    "power_on_hours": 21016,
    "throughput": 1957888
  },
  "storage_pool": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "storage_pool_1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "type": "ssd",

```

```

    "uid":
    "002538E5:71B00B2F:00000000:00000000:00000000:00000000:00000000:00000000:00000000:00000000",
    "usable_size": 959934889984,
    "vendor": "NETAPP",
    "virtual": {
        "container": "nviet12122018113936-rg",
        "object": "f1fu63se",
        "storage_account": "nviet12122018113936ps",
        "target_address": "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	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

aggregates

Aggregate

Name	Type	Description
_links	_links	
name	string	
uuid	string	

dr_node

Name	Type	Description
name	string	
uuid	string	

drawer

Name	Type	Description
id	integer	
slot	integer	

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
message	string	Message argument

error

The message and code detailing the error state of this disk.

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

disk_error_info

Name	Type	Description
reason	error	The message and code detailing the error state of this disk.
type	string	Disk error type.

home_node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

key_id

Name	Type	Description
data	string	Key ID of the data authentication key
fips	string	Key ID of the FIPS authentication key

node

Name	Type	Description
_links	_links	

Name	Type	Description
name	string	
uuid	string	

error

This error message and code explaining the disk failure.

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

outage

Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.

Name	Type	Description
persistently_failed	boolean	Indicates whether RAID maintains the state of this disk as failed across reboots.
reason	error	This error message and code explaining the disk failure.

disk_path_info

Name	Type	Description
disk_path_name	string	Path-based disk name.
initiator	string	Initiator port.
node.name	string	Controller with the initiator port for this path.
node.uuid	string	Controller UUID, to identify node for this path.
port_name	string	Name of the disk port.
port_type	string	Disk port type.

Name	Type	Description
vmdisk_hypervisor_file_name	string	Virtual disk hypervisor file name.
wwnn	string	Target device's World Wide Node Name.
wwpn	string	Target device's World Wide Port Name.

shelf

Shelf

Name	Type	Description
_links	_links	
uid	string	

stats

Name	Type	Description
average_latency	integer	Average I/O latency across all active paths, in milliseconds.
iops_total	integer	Total I/O operations per second read and written to this disk across all active paths.
path_error_count	integer	Disk path error count; failed I/O operations.
power_on_hours	integer	Hours powered on.
throughput	integer	Total disk throughput per second across all active paths, in bytes.

storage_pool

Shared Storage Pool

Name	Type	Description
_links	_links	
name	string	
uuid	string	

virtual

Information about backing storage for disks on cloud platforms.

Name	Type	Description
container	string	Container name of the virtual disk.
object	string	Object name of the virtual disk.
storage_account	string	Storage account name of the virtual disk.
target_address	string	Target address of the virtual disk.

disk

Name	Type	Description
aggregates	array[aggregates]	List of aggregates sharing this disk
bay	integer	Disk shelf bay
bytes_per_sector	integer	Bytes per sector.
class	string	Disk class
compliance_standard	string	Security standard that the device is certified to.
container_type	string	Type of overlying disk container
control_standard	string	Standard that the device supports for encryption control.
dr_node	dr_node	
drawer	drawer	
effective_type	string	Effective Disk type
encryption_operation	string	This field should only be set as a query parameter in a PATCH operation. It is input only and won't be returned by a subsequent GET.
error	array[disk_error_info]	List of disk errors information.

Name	Type	Description
fips_certified	boolean	
firmware_version	string	
home_node	home_node	
key_id	key_id	
local	boolean	Indicates if a disk is locally attached versus being remotely attached. A locally attached disk resides in the same proximity as the host cluster versus been attached to the remote cluster.
location	string	Physical location of the disk
model	string	
name	string	Cluster-wide disk name
node	node	
outage	outage	Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.
overall_security	string	Overall Security rating, for FIPS-certified devices.
paths	array[disk_path_info]	List of paths to a disk
physical_size	integer	Physical size, in units of bytes
pool	string	Pool to which disk is assigned

Name	Type	Description
protection_mode	string	Mode of drive data protection and FIPS compliance. Possible values are: • <i>open</i> - Data is unprotected • <i>data</i> - Data protection only, without FIPS compliance • <i>part</i> - Data is unprotected; other FIPS compliance settings present • <i>full</i> - Full data and FIPS compliance protection • <i>miss</i> - Protection mode information is not available
rated_life_used_percent	integer	Percentage of rated life used
right_size_sector_count	integer	Number of usable disk sectors that remain after subtracting the right-size adjustment for this disk.
rpm	integer	Revolutions per minute
sanitize_spare	boolean	Confirms spare disk sanitization (non-cryptographically).
sector_count	integer	Number of sectors on the disk.
self_encrypting	boolean	
serial_number	string	
shelf	shelf	Shelf
state	string	State
stats	stats	
storage_pool	storage_pool	Shared Storage Pool
type	string	Disk interface type
uid	string	The unique identifier for a disk
usable_size	integer	
vendor	string	

Name	Type	Description
virtual	virtual	Information about backing storage for disks on cloud platforms.

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.

Update disk ownership, change authentication keys, or sanitize disks

PATCH `/storage/disks`

Introduced In: 9.7

Updates disk ownership, changes authentication keys, sanitizes encrypting disks, or sanitizes non-encrypting spare disks.

Related ONTAP commands

- `storage disk assign`
- `storage disk removeowner`
- `storage encryption disk modify -data-key-id`
- `storage encryption disk sanitize`
- `security key-manager key query -key-type NSE-AK`
- `storage disk unfail`
- `storage disk sanitize-spare`

Learn more

- [DOC /storage/disks](#)

Parameters

Name	Type	In	Required	Description
name	string	query	False	Disk name
node	string	query	False	Node to assign disk. This property is not supported on the ASA r2 platform. • Introduced in: 9.8
pool	string	query	False	Pool to assign disk to • Introduced in: 9.11

Name	Type	In	Required	Description
encryption_operation	string	query	False	Name of the operation to apply to encrypting disks. rekey_data_default changes the data authentication key (AK) to the drive-unique Manufacture Secure ID (MSID) value. Allows the drive to be attached to other clusters. Disables data-at-rest protection without erasing the data. rekey_data_auto_id changes the data authentication key (AK) to an AK the cluster selects automatically. Enables data-at-rest protection. sanitize_disk cryptographically erases all user data from a spare or broken drive by altering the data encryption key. Resets the data AK to the drive-unique MSID value and disables data-at-rest protection. Used when a drive is being repurposed or returned. enum: ["rekey_data_default", "rekey_data_auto_id",

Name	Type	In	Required	Description
sanitize_spare	boolean	query	False	Confirms spare disk sanitization (non-cryptographically). • Introduced in: 9.16
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
aggregates	array[aggregates]	List of aggregates sharing this disk
bay	integer	Disk shelf bay
bytes_per_sector	integer	Bytes per sector.
class	string	Disk class
compliance_standard	string	Security standard that the device is certified to.
container_type	string	Type of overlying disk container
control_standard	string	Standard that the device supports for encryption control.
dr_node	dr_node	
drawer	drawer	
effective_type	string	Effective Disk type
encryption_operation	string	This field should only be set as a query parameter in a PATCH operation. It is input only and won't be returned by a subsequent GET.
error	array[disk_error_info]	List of disk errors information.
fips_certified	boolean	

Name	Type	Description
firmware_version	string	
home_node	home_node	
key_id	key_id	
local	boolean	Indicates if a disk is locally attached versus being remotely attached. A locally attached disk resides in the same proximity as the host cluster versus been attached to the remote cluster.
location	string	Physical location of the disk
model	string	
name	string	Cluster-wide disk name
node	node	
outage	outage	Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.
overall_security	string	Overall Security rating, for FIPS-certified devices.
paths	array[disk_path_info]	List of paths to a disk
physical_size	integer	Physical size, in units of bytes
pool	string	Pool to which disk is assigned
protection_mode	string	Mode of drive data protection and FIPS compliance. Possible values are: • <i>open</i> - Data is unprotected • <i>data</i> - Data protection only, without FIPS compliance • <i>part</i> - Data is unprotected; other FIPS compliance settings present • <i>full</i> - Full data and FIPS compliance protection • <i>miss</i> - Protection mode information is not available

Name	Type	Description
rated_life_used_percent	integer	Percentage of rated life used
right_size_sector_count	integer	Number of usable disk sectors that remain after subtracting the right-size adjustment for this disk.
rpm	integer	Revolutions per minute
sanitize_spare	boolean	Confirms spare disk sanitization (non-cryptographically).
sector_count	integer	Number of sectors on the disk.
self_encrypting	boolean	
serial_number	string	
shelf	shelf	Shelf
state	string	State
stats	stats	
storage_pool	storage_pool	Shared Storage Pool
type	string	Disk interface type
uid	string	The unique identifier for a disk
usable_size	integer	
vendor	string	
virtual	virtual	Information about backing storage for disks on cloud platforms.

Example request

```
{
  "aggregates": [
    {
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "bay": 1,
  "bytes_per_sector": 520,
  "class": "solid_state",
  "compliance_standard": "FIPS 140-2",
  "container_type": "spare",
  "control_standard": "TCG Enterprise",
  "dr_node": {
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "effective_type": "vmdisk",
  "encryption_operation": "string",
  "error": [
    {
      "type": "notallflashdisk"
    }
  ],
  "firmware_version": "NA51",
  "home_node": {
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "key_id": {
    "data": "string",
    "fips": "string"
  },
  "location": "node-01",
  "model": "X421_HCOBE450A10",
  "name": "1.0.1",
  "node": {
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "overall_security": "Level 2",
  "paths": [
    {
      "disk_path_name": "vsim4:3a.10",
```

```

        "initiator": "3a",
        "node.name": "vsim4",
        "node.uuid": "cf7fe057-526d-11ec-af4e-0050568e9df0",
        "port_name": "A",
        "port_type": "sas",
        "vmdisk_hypervisor_file_name": "xvds vol0a0567ae156ca59f6",
        "wwnn": "5000c2971c1b2b8c",
        "wwpn": "5000c2971c1b2b8d"
    }
],
"physical_size": 228930,
"pool": "pool0",
"protection_mode": "data",
"rated_life_used_percent": 10,
"right_size_sector_count": 1172123568,
"rpm": 15000,
"sector_count": 1172123568,
"serial_number": "KHG2VX8R",
"shelf": {
    "uid": "7777841915827391056"
},
"state": "present",
"stats": {
    "average_latency": 3,
    "iops_total": 12854,
    "path_error_count": 0,
    "power_on_hours": 21016,
    "throughput": 1957888
},
"storage_pool": {
    "name": "storage_pool_1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"type": "ssd",
"uid":
"002538E5:71B00B2F:00000000:00000000:00000000:00000000:00000000:00000000:00000000:00000000",
"usable_size": 959934889984,
"vendor": "NETAPP",
"virtual": {
    "container": "nviet12122018113936-rg",
    "object": "f1fu63se",
    "storage_account": "nviet12122018113936ps",
    "target_address": "string"
}
}

```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
720951	Unable to unfail the disk.
720968	Quiet mode is applicable only when disk unfail is sparing the drive.
721029	Failed to assign disks to a pool.
721066	Node is outside the list of controllers for disk.
721084	An invalid pool name was specified.
721085	The node name was not specified.
721093	Operation not supported on this platform.
721095	Failed to sanitize the spare disk (non-cryptographically).
721096	Invalid disk state. This state is not supported for a PATCH operation.
1441795	Setting the data key ID to the manufacture secure ID is not allowed when in FIPS-compliance mode.
1441825	The system does not support maintenance of the controls of encrypting disks.
14155777	The operation failed on one or more disks.
14155778	No self-encrypting disks were specified.
14155779	Status from a node shows that a conflicting operation has occurred. Some disk controls might have changed.
14155780	Could not retrieve the required key ID from the key manager.

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	

_links

aggregates

Aggregate

Name	Type	Description
name	string	
uuid	string	

dr_node

Name	Type	Description
name	string	
uuid	string	

drawer

Name	Type	Description
id	integer	
slot	integer	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

The message and code detailing the error state of this disk.

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

Name	Type	Description
message	string	Error message

disk_error_info

Name	Type	Description
type	string	Disk error type.

home_node

Name	Type	Description
name	string	
uuid	string	

key_id

Name	Type	Description
data	string	Key ID of the data authentication key
fips	string	Key ID of the FIPS authentication key

node

Name	Type	Description
name	string	
uuid	string	

error

This error message and code explaining the disk failure.

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

outage

Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.

Name	Type	Description
persistently_failed	boolean	Indicates whether RAID maintains the state of this disk as failed across reboots.

disk_path_info

Name	Type	Description
disk_path_name	string	Path-based disk name.
initiator	string	Initiator port.
node.name	string	Controller with the initiator port for this path.
node.uuid	string	Controller UUID, to identify node for this path.
port_name	string	Name of the disk port.
port_type	string	Disk port type.
vmdisk_hypervisor_file_name	string	Virtual disk hypervisor file name.
wwnn	string	Target device's World Wide Node Name.
wwpn	string	Target device's World Wide Port Name.

shelf

Shelf

Name	Type	Description
uid	string	

stats

Name	Type	Description
average_latency	integer	Average I/O latency across all active paths, in milliseconds.

Name	Type	Description
iops_total	integer	Total I/O operations per second read and written to this disk across all active paths.
path_error_count	integer	Disk path error count; failed I/O operations.
power_on_hours	integer	Hours powered on.
throughput	integer	Total disk throughput per second across all active paths, in bytes.

storage_pool

Shared Storage Pool

Name	Type	Description
name	string	
uuid	string	

virtual

Information about backing storage for disks on cloud platforms.

Name	Type	Description
container	string	Container name of the virtual disk.
object	string	Object name of the virtual disk.
storage_account	string	Storage account name of the virtual disk.
target_address	string	Target address of the virtual disk.

disk

Name	Type	Description
aggregates	array[aggregates]	List of aggregates sharing this disk
bay	integer	Disk shelf bay

Name	Type	Description
bytes_per_sector	integer	Bytes per sector.
class	string	Disk class
compliance_standard	string	Security standard that the device is certified to.
container_type	string	Type of overlying disk container
control_standard	string	Standard that the device supports for encryption control.
dr_node	dr_node	
drawer	drawer	
effective_type	string	Effective Disk type
encryption_operation	string	This field should only be set as a query parameter in a PATCH operation. It is input only and won't be returned by a subsequent GET.
error	array[disk_error_info]	List of disk errors information.
fips_certified	boolean	
firmware_version	string	
home_node	home_node	
key_id	key_id	
local	boolean	Indicates if a disk is locally attached versus being remotely attached. A locally attached disk resides in the same proximity as the host cluster versus been attached to the remote cluster.
location	string	Physical location of the disk
model	string	
name	string	Cluster-wide disk name
node	node	

Name	Type	Description
outage	outage	Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.
overall_security	string	Overall Security rating, for FIPS-certified devices.
paths	array[disk_path_info]	List of paths to a disk
physical_size	integer	Physical size, in units of bytes
pool	string	Pool to which disk is assigned
protection_mode	string	Mode of drive data protection and FIPS compliance. Possible values are: • <i>open</i> - Data is unprotected • <i>data</i> - Data protection only, without FIPS compliance • <i>part</i> - Data is unprotected; other FIPS compliance settings present • <i>full</i> - Full data and FIPS compliance protection • <i>miss</i> - Protection mode information is not available
rated_life_used_percent	integer	Percentage of rated life used
right_size_sector_count	integer	Number of usable disk sectors that remain after subtracting the right-size adjustment for this disk.
rpm	integer	Revolutions per minute
sanitize_spare	boolean	Confirms spare disk sanitization (non-cryptographically).
sector_count	integer	Number of sectors on the disk.
self_encrypting	boolean	
serial_number	string	
shelf	shelf	Shelf

Name	Type	Description
state	string	State
stats	stats	
storage_pool	storage_pool	Shared Storage Pool
type	string	Disk interface type
uid	string	The unique identifier for a disk
usable_size	integer	
vendor	string	
virtual	virtual	Information about backing storage for disks on cloud platforms.

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 specific disk

GET /storage/disks/{name}

Introduced In: 9.6

Retrieves a specific disk.

Related ONTAP commands

- `storage disk show`
- `storage encryption 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[aggregates]	List of aggregates sharing this disk
bay	integer	Disk shelf bay
bytes_per_sector	integer	Bytes per sector.
class	string	Disk class
compliance_standard	string	Security standard that the device is certified to.
container_type	string	Type of overlying disk container
control_standard	string	Standard that the device supports for encryption control.
dr_node	dr_node	
drawer	drawer	
effective_type	string	Effective Disk type
encryption_operation	string	This field should only be set as a query parameter in a PATCH operation. It is input only and won't be returned by a subsequent GET.
error	array[disk_error_info]	List of disk errors information.

Name	Type	Description
fips_certified	boolean	
firmware_version	string	
home_node	home_node	
key_id	key_id	
local	boolean	Indicates if a disk is locally attached versus being remotely attached. A locally attached disk resides in the same proximity as the host cluster versus been attached to the remote cluster.
location	string	Physical location of the disk
model	string	
name	string	Cluster-wide disk name
node	node	
outage	outage	Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.
overall_security	string	Overall Security rating, for FIPS-certified devices.
paths	array[disk_path_info]	List of paths to a disk
physical_size	integer	Physical size, in units of bytes
pool	string	Pool to which disk is assigned

Name	Type	Description
protection_mode	string	Mode of drive data protection and FIPS compliance. Possible values are: • <i>open</i> - Data is unprotected • <i>data</i> - Data protection only, without FIPS compliance • <i>part</i> - Data is unprotected; other FIPS compliance settings present • <i>full</i> - Full data and FIPS compliance protection • <i>miss</i> - Protection mode information is not available
rated_life_used_percent	integer	Percentage of rated life used
right_size_sector_count	integer	Number of usable disk sectors that remain after subtracting the right-size adjustment for this disk.
rpm	integer	Revolutions per minute
sanitize_spare	boolean	Confirms spare disk sanitization (non-cryptographically).
sector_count	integer	Number of sectors on the disk.
self_encrypting	boolean	
serial_number	string	
shelf	shelf	Shelf
state	string	State
stats	stats	
storage_pool	storage_pool	Shared Storage Pool
type	string	Disk interface type
uid	string	The unique identifier for a disk
usable_size	integer	
vendor	string	

Name	Type	Description
virtual	virtual	Information about backing storage for disks on cloud platforms.

Example response

```
{
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "bay": 1,
  "bytes_per_sector": 520,
  "class": "solid_state",
  "compliance_standard": "FIPS 140-2",
  "container_type": "spare",
  "control_standard": "TCG Enterprise",
  "dr_node": {
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "effective_type": "vmdisk",
  "encryption_operation": "string",
  "error": [
    {
      "reason": {
        "arguments": [
          {
            "code": "string",
            "message": "string"
          }
        ],
        "code": "4",
        "message": "entry doesn't exist"
      },
      "type": "notallflashdisk"
    }
  ],
  "firmware_version": "NA51",
  "home_node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```



```

    },
    {
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    {
      "key_id": {
        "data": "string",
        "fips": "string"
      },
      "location": "node-01",
      "model": "X421_HCOBE450A10",
      "name": "1.0.1",
      "node": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "node1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "outage": {
        "reason": {
          "arguments": [
            {
              "code": "string",
              "message": "string"
            }
          ],
          "code": "4",
          "message": "entry doesn't exist"
        }
      },
      "overall_security": "Level 2",
      "paths": [
        {
          "disk_path_name": "vsim4:3a.10",
          "initiator": "3a",
          "node.name": "vsim4",
          "node.uuid": "cf7fe057-526d-11ec-af4e-0050568e9df0",
          "port_name": "A",
          "port_type": "sas",
          "vmdisk_hypervisor_file_name": "xvds vol0a0567ae156ca59f6",
          "wwnn": "5000c2971c1b2b8c",
          "wwpn": "5000c2971c1b2b8d"
        }
      ]
    }
  ]
}

```

```

],
"physical_size": 228930,
"pool": "pool0",
"protection_mode": "data",
"rated_life_used_percent": 10,
"right_size_sector_count": 1172123568,
"rpm": 15000,
"sector_count": 1172123568,
"serial_number": "KHG2VX8R",
"shelf": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "uid": "7777841915827391056"
},
"state": "present",
"stats": {
  "average_latency": 3,
  "iops_total": 12854,
  "path_error_count": 0,
  "power_on_hours": 21016,
  "throughput": 1957888
},
"storage_pool": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "storage_pool_1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"type": "ssd",
"uid":
"002538E5:71B00B2F:00000000:00000000:00000000:00000000:00000000:00000000:00000000:00000000",
"usable_size": 959934889984,
"vendor": "NETAPP",
"virtual": {
  "container": "nviet12122018113936-rg",
  "object": "f1fu63se",
  "storage_account": "nviet12122018113936ps",
  "target_address": "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	

_links

Name	Type	Description
self	href	

aggregates

Aggregate

Name	Type	Description
_links	_links	
name	string	
uuid	string	

dr_node

Name	Type	Description
name	string	
uuid	string	

drawer

Name	Type	Description
id	integer	
slot	integer	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

The message and code detailing the error state of this disk.

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

disk_error_info

Name	Type	Description
reason	error	The message and code detailing the error state of this disk.
type	string	Disk error type.

home_node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

key_id

Name	Type	Description
data	string	Key ID of the data authentication key
fips	string	Key ID of the FIPS authentication key

node

Name	Type	Description
_links	_links	
name	string	
uuid	string	

error

This error message and code explaining the disk failure.

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

outage

Indicates if a disk has an entry in the failed disk registry, along with the reason for the failure.

Name	Type	Description
persistently_failed	boolean	Indicates whether RAID maintains the state of this disk as failed across reboots.
reason	error	This error message and code explaining the disk failure.

disk_path_info

Name	Type	Description
disk_path_name	string	Path-based disk name.
initiator	string	Initiator port.
node.name	string	Controller with the initiator port for this path.
node.uuid	string	Controller UUID, to identify node for this path.
port_name	string	Name of the disk port.
port_type	string	Disk port type.
vmdisk_hypervisor_file_name	string	Virtual disk hypervisor file name.
wwnn	string	Target device's World Wide Node Name.
wwpn	string	Target device's World Wide Port Name.

shelf

Shelf

Name	Type	Description
_links	_links	
uid	string	

stats

Name	Type	Description
average_latency	integer	Average I/O latency across all active paths, in milliseconds.
iops_total	integer	Total I/O operations per second read and written to this disk across all active paths.
path_error_count	integer	Disk path error count; failed I/O operations.
power_on_hours	integer	Hours powered on.
throughput	integer	Total disk throughput per second across all active paths, in bytes.

storage_pool

Shared Storage Pool

Name	Type	Description
_links	_links	
name	string	
uuid	string	

virtual

Information about backing storage for disks on cloud platforms.

Name	Type	Description
container	string	Container name of the virtual disk.
object	string	Object name of the virtual disk.
storage_account	string	Storage account name of the virtual disk.

Name	Type	Description
target_address	string	Target address of the virtual disk.

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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