



# **Manage storage ports**

## **ONTAP 9.10.1 REST API Documentation**

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# Manage storage ports

## Storage ports endpoint overview

### Retrieving storage port information

The storage port GET API retrieves all of the storage ports in the cluster.

### Examples

#### 1) Retrieve a list of storage ports from the cluster

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

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

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

# The response:
{
  "records": [
    {
      "node": {
        "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
        "name": "node-1",
        "_links": {
          "self": {
            "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-
00a0985a72ee"
          }
        }
      },
      "name": "0a",
      "_links": {
        "self": {
          "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-
00a0985a72ee/0a"
        }
      }
    },
  ]
}
```

```

{
  "node": {
    "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
    "name": "node-1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
      }
    }
  },
  "name": "0b",
  "_links": {
    "self": {
      "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0b"
    }
  }
},
{
  "node": {
    "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
    "name": "node-1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
      }
    }
  },
  "name": "0c",
  "_links": {
    "self": {
      "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0c"
    }
  }
},
{
  "node": {
    "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
    "name": "node-1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
      }
    }
  }
}

```

```

    }
  },
  "name": "0d",
  "_links": {
    "self": {
      "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0d"
    }
  }
},
{
  "node": {
    "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
    "name": "node-1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
      }
    }
  },
  "name": "0e",
  "_links": {
    "self": {
      "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0e"
    }
  }
},
{
  "node": {
    "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
    "name": "node-1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
      }
    }
  },
  "name": "0f",
  "_links": {
    "self": {
      "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0f"
    }
  }
}

```

```

    }
  },
  {
    "node": {
      "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
      "name": "node-1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
        }
      }
    },
    "name": "0g",
    "_links": {
      "self": {
        "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0g"
      }
    }
  },
],
"num_records": 7,
"_links": {
  "self": {
    "href": "/api/storage/ports"
  }
}
}

```

## 2) Retrieve a specific storage port from the cluster

The following example shows the response of the requested storage port. If there is no storage port with the requested node uuid and name, an error is returned.

```
# The API:
/api/storage/ports/{node.uuid}/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0a" -H "accept: application/hal+json"

# The response:
{
  "node": {
    "uuid": "0530d6c1-8c6d-11e8-907f-00a0985a72ee",
    "name": "node-1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/0530d6c1-8c6d-11e8-907f-00a0985a72ee"
      }
    }
  },
  "name": "0a",
  "description": "SAS Host Adapter 0a (PMC-Sierra PM8001 rev. C)",
  "wwn": "500a098003633df0",
  "speed": 6,
  "cable": {
    "part_number": "112-00429+A0",
    "serial_number": "629230774",
    "identifier": "500a0980066e2c01-500a098003633df0",
    "length": "0.5m"
  },
  "state": "online",
  "enabled": true,
  "firmware_version": "01.12.09.00",
  "type": "sas",
  "redundant": true,
  "in_use": true,
  "_links": {
    "self": {
      "href": "/api/storage/ports/0530d6c1-8c6d-11e8-907f-00a0985a72ee/0a"
    }
  }
}
```

# Retrieve storage ports

GET /storage/ports

Introduced In: 9.6

Retrieves a collection of storage ports.

## Related ONTAP commands

- `storage port show`

## Learn more

- [DOC /storage/ports](#)

## Parameters

Name	Type	In	Required	Description
cable.length	string	query	False	Filter by cable.length
cable.identifier	string	query	False	Filter by cable.identifier
cable.serial_number	string	query	False	Filter by cable.serial_number
cable.part_number	string	query	False	Filter by cable.part_number
description	string	query	False	Filter by description
speed	number	query	False	Filter by speed
state	string	query	False	Filter by state
board_name	string	query	False	Filter by board_name
type	string	query	False	Filter by type <ul style="list-style-type: none"><li>• Introduced in: 9.9</li></ul>
part_number	string	query	False	Filter by part_number



Name	Type	In	Required	Description
mode	string	query	False	Filter by mode  • Introduced in: 9.8
mac_address	string	query	False	Filter by mac_address
serial_number	string	query	False	Filter by serial_number
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
firmware_version	string	query	False	Filter by firmware_version  • Introduced in: 9.9
redundant	boolean	query	False	Filter by redundant  • Introduced in: 9.9
in_use	boolean	query	False	Filter by in_use  • Introduced in: 9.9
wwn	string	query	False	Filter by wwn
error.message	string	query	False	Filter by error.message
error.corrective_action	string	query	False	Filter by error.corrective_action
enabled	boolean	query	False	Filter by enabled  • Introduced in: 9.9
name	string	query	False	Filter by name

Name	Type	In	Required	Description
wwpn	string	query	False	Filter by wwpn <ul style="list-style-type: none"> <li>Introduced in: 9.9</li> </ul>
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. <ul style="list-style-type: none"> <li>Default value: 1</li> </ul>
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. <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="#">storage_port</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "cable": {
      "identifier": "500a0980000b6c3f-50000d1703544b80",
      "length": "2m",
      "part_number": "112-00431+A0",
      "serial_number": "616930439"
    },
    "description": "SAS Host Adapter 2a (PMC-Sierra PM8072 rev. C)",
    "firmware_version": "03.08.09.00",
    "mode": "storage",
    "name": "2a",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "part_number": "111-03801",
    "serial_number": "7A2463CC45B",
    "speed": "6",
    "state": "online",
    "type": "sas",
    "wwn": "50000d1703544b80"
  }
}
```

## 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>	

cable

Name	Type	Description
identifier	string	
length	string	
part_number	string	
serial_number	string	

error

Name	Type	Description
corrective_action	string	Error corrective action
message	string	Error message

\_links

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

node

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

storage\_port

Name	Type	Description
board_name	string	
cable	<a href="#">cable</a>	
description	string	
enabled	boolean	
error	<a href="#">error</a>	
firmware_version	string	
in_use	boolean	Specifies whether any devices are connected through this port
mac_address	string	
mode	string	Operational mode of a non-dedicated Ethernet port
name	string	
node	<a href="#">node</a>	
part_number	string	
redundant	boolean	Specifies whether all devices connected through this port have a redundant path from another port
serial_number	string	
speed	number	Operational port speed in Gbps
state	string	
type	string	
wwn	string	World Wide Name
wwpn	string	World Wide Port Name

#### 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 storage port

GET /storage/ports/{node.uuid}/{name}

Introduced In: 9.6

Retrieves a specific storage port.

### Related ONTAP commands

- `storage port show`

### Learn more

- [DOC /storage/ports](#)

### Parameters

Name	Type	In	Required	Description
node.uuid	string	path	True	Node UUID
name	string	path	True	Port name
fields	array[string]	query	False	Specify the fields to return.

### Response

Status: 200, Ok

Name	Type	Description
board_name	string	



Name	Type	Description
cable	<a href="#">cable</a>	
description	string	
enabled	boolean	
error	<a href="#">error</a>	
firmware_version	string	
in_use	boolean	Specifies whether any devices are connected through this port
mac_address	string	
mode	string	Operational mode of a non-dedicated Ethernet port
name	string	
node	<a href="#">node</a>	
part_number	string	
redundant	boolean	Specifies whether all devices connected through this port have a redundant path from another port
serial_number	string	
speed	number	Operational port speed in Gbps
state	string	
type	string	
wwn	string	World Wide Name
wwpn	string	World Wide Port Name

## Example response

```
{
  "cable": {
    "identifier": "500a0980000b6c3f-50000d1703544b80",
    "length": "2m",
    "part_number": "112-00431+A0",
    "serial_number": "616930439"
  },
  "description": "SAS Host Adapter 2a (PMC-Sierra PM8072 rev. C)",
  "firmware_version": "03.08.09.00",
  "mode": "storage",
  "name": "2a",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "part_number": "111-03801",
  "serial_number": "7A2463CC45B",
  "speed": "6",
  "state": "online",
  "type": "sas",
  "wwn": "50000d1703544b80"
}
```

## 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

cable

Name	Type	Description
identifier	string	
length	string	
part_number	string	
serial_number	string	

error

Name	Type	Description
corrective_action	string	Error corrective action
message	string	Error message

href

Name	Type	Description
href	string	

\_links

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

node

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

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

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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