



# **storage port commands**

## ONTAP 9.3 commands

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# storage port commands

## storage port disable

Disable a storage port

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `storage port disable` command disables a specified storage port.

### Parameters

**-node {<nodename>|local} - Node**

Use this parameter to specify the node on which the port resides.

**-port <text> - Port**

Use this parameter to specify the port that needs to be disabled.

**[-force <>true>] - Force**

Use this optional parameter to force the disabling of the storage port. The parameter can be used to disable the specified port even if some devices can only be accessed using this port. Note that doing so might cause multiple device failures.

### Examples

The following example disables port 0a on node node1:

```
cluster1::> storage port disable -node node1 -port 0a
```

## storage port enable

Enable a storage port

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `storage port enable` command enables a specified storage port.

### Parameters

**-node {<nodename>|local} - Node**

Use this parameter to specify the node on which the port resides.

### **-port <text> - Port**

Use this parameter to specify the port that needs to be enabled.

## **Examples**

The following example enables port 0a on node node1:

```
cluster1::> storage port enable -node node1 -port 0a
```

## **storage port rescan**

Rescan a storage port

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### **Description**

The `storage port rescan` command rescans a specified storage port.

### **Parameters**

#### **-node {<nodename>|local} - Node**

Use this parameter to specify the node on which the port resides.

#### **-port <text> - Port**

Use this parameter to specify the port that needs to be rescanned.

## **Examples**

The following example rescans port 0a on node node1:

```
cluster1::> storage port rescan -node node1 -port 0a
```

## **storage port reset-device**

Reset a device behind a storage port

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### **Description**

The `storage port reset-device` command resets a device behind a port. If the device is behind a SAS port, you need to specify the shelf name and bay ID where the device resides. If the device is behind a FC port, you need to specify the loop ID of the device.

## Parameters

**-node {<nodename>|local} - Node**

Use this parameter to specify the node on which the port resides.

**-port <text> - Port**

Use this parameter to specify the port used to reset the device.

**{ -shelf-name <text> - Shelf Name**

Use this parameter to specify the shelf where the device resides.

**-bay-id <integer> - Bay ID**

Use this parameter to specify the bay where the device resides.

**| -loop-id <integer> - Loop ID }**

Use this parameter to specify the loop ID of the device.

## Examples

The following example resets a device behind SAS port 0a on node node1:

```
cluster1::> storage port reset-device -node node1 -port 0a -shelf-name 1.0
-bay-id 10
```

The following example resets a device behind FC port 1b on node node1:

```
cluster1::> storage port reset-device -node node1 -port 1b -loop-id 20
```

## storage port reset

Reset a storage port

**Availability:** This command is available to *cluster* administrators at the *advanced* privilege level.

### Description

The `storage port reset` command resets a specified storage port.

## Parameters

**-node** {<nodename>|local} - Node

Use this parameter to specify the node on which the port resides.

**-port** <text> - Port

Use this parameter to specify the port that needs to be reset.

## Examples

The following example resets port 0a on node node1:

```
cluster1::> storage port reset -node node1 -port 0a
```

## storage port show

Show storage port information

**Availability:** This command is available to *cluster* administrators at the *admin* privilege level.

### Description

The `storage port show` command displays information about the storage ports in the cluster. If no parameters are specified, the default command displays the following information about the storage ports:

- Node
- Port
- Type
- Speed
- State
- Status

To display detailed profile information about a single storage port, use the `-node` and `-port` parameters.

## Parameters

{ [-fields <fieldname>,...]

Displays the specified fields for all the storage ports, in column style output.

| [-errors ]

Displays the following error status information about the storage ports which have errors:

- Error type
- Error severity
- Error description

**[`-instance` ] }**

Displays expanded information about all the storage ports in the system. If a storage port is specified, then this parameter displays detailed information for that port only.

**[`-node` {<nodename>|local} ] - Node**

Displays detailed information about the storage ports on the specified node.

**[`-port` <text>] - Port**

Selects the ports with the specified port name.

**[`-port-type` {Unknown|SAS|FC} ] - Port Type**

Selects the ports of the specified type.

**[`-port-speed` {0|1|1.5|2|3|4|6|8|10|12|16|32} ] - Port Speed**

Selects the ports with the specified speed.

**[`-state` {enabled|disabled} ] - Port State**

Selects the ports with the specified state.

**[`-status` {unknown|online|online-degraded|offline|link-down} ] - Port Status**

Selects the ports with the specified operational status.

**[`-description` <text>] - Description**

Selects the ports with the specified description.

**[`-firmware-rev` <text>] - Firmware Revision**

Selects the ports with the specified firmware revision.

**[`-serial-number` <text>] - Serial Number**

Selects the ports with the specified serial number.

**[`-connection-mode` {Unknown|Loop|Point-to-point} ] - Connection Mode**

Selects the ports with the specified connection mode.

**[`-wwnn` <FC WWN>] - World Wide Node Name**

Selects the ports with the specified World Wide Node Name.

**[`-wwpn` <FC WWN>] - World Wide Port Name**

Selects the ports with the specified World Wide Port Name.

**[`-board-name` <text>] - Board Name**

Selects the ports with the specified board name.

**[`-connector-capabilities` <integer>,...] - Connector Capabilities**

Selects the ports with the specified list of connector capabilities.

**[`-wwn` <FC WWN>] - Base World Wide Name**

Selects the ports with the specified World Wide Name.

**[-mfg-part-number <text>] - MFG Part Number**

Selects the ports with the specified manufacturer part number.

**[-nvdata-rev <text>] - NVDATA Revision**

Selects the ports with the specified NVDATA revision.

**[-part-number <text>] - Part Number**

Selects the ports with the specified part number.

**[-date-code <text>] - Date Code**

Selects the ports with the specified date code.

**[-cable-length <text>] - Cable Length**

Selects the ports with the specified cable length.

**[-cable-identifier <text>] - Cable Identifier**

Selects the ports with the specified cable identifier.

**[-cable-end-id {end\_0|end\_1}] - Cable End Identifier**

Selects the ports with the specified cable end identifier.

**[-connector-technology {active-copper|passive-copper|optical}] - Connector Technology**

Selects the ports with the specified connector technology.

**[-phy-id <integer>,...] - Phy ID**

Selects the ports that have phys with the specified phy ID.

**[-phy-state {enabled|disabled}] - Phy State**

Selects the ports that have phys with the specified state.

**[-phy-status {unknown|online|offline|speed-negotiation-failed|sata-oob-failed}] - Phy Status**

Selects the ports that have phys with the specified status.

**[-phy-speed {0|1|1.5|2|3|4|6|8|10|12|16|32}] - Phy Speed**

Selects the ports that have phys with the specified speed.

**[-error-type {unknown|online|online-degraded|offline|link-down}] - Error Type**

Selects the ports with the specified error type.

**[-error-severity {unknown|notice|warning|error|critical}] - Error Severity**

Selects the ports with the specified error severity.

**[-error-text <text>] - Error Text**

Selects the ports with the specified error text.

**[-corrective-action <text>] - Corrective Action**

Selects the ports with the specified corrective action.



**[-connector-type {QSFP|QSFP+|Mini-SAS HD|SFP}] - Connector Type**

Selects the ports with the specified connector type.

**[-connector-vendor <text>] - Connector Vendor**

Selects the ports with the specified connector vendor.

**[-connector-part-number <text>] - Connector Part Number**

Selects the ports with the specified connector part number.

**[-connector-serial-number <text>] - Connector Serial Number**

Selects the ports with the specified connector serial number.

## Examples

The following example displays information about all storage ports in the cluster:

```
cluster1::> storage port show
Speed
Node           Port Type (Gb/s) State      Status
-----
node1
              0a  SAS      0 disabled offline
              0b  SAS      6 enabled  online
              1a  FC       0 disabled offline
              1b  FC       2 enabled  online
node2
              0a  SAS      6 enabled  online
              0b  SAS      6 enabled  online-degraded
              1a  FC       2 enabled  online
              1b  FC       2 enabled  online
```

The following example displays detailed information about port 0a on node node1:

```
cluster1::> storage port show -node nodel -port 0b
Node: nodel
      Port: 0b
      Description: SAS Host Adapter 0b (PMC-Sierra PM8001 rev. C)
      Firmware Revision: 01.12.06.00
      Base WWN: 50:0a:09:80:00:82:47:b4
      Connector Type: qsfp
      Connector Vendor: Molex Inc.
      Connector Part Number: 112-00177+A0
      Connector Technology: passive_copper
      Connector Serial Number: 017920547
      Cable Length: 2m
      Cable End Identifier: end_1
      Cable Identifier: 500a09800082847f-500a0980008247b4
      Port Speed: 6 Gb/s
      Port State: enabled
      Port Status: online
      Phy State: [0] enabled, online, 6 Gb/s
                 [1] enabled, online, 6 Gb/s
                 [2] enabled, online, 6 Gb/s
                 [3] enabled, online, 6 Gb/s
```

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