



## **storage port commands**

### ONTAP commands

NetApp

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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 (privilege: advanced)**

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 modify**

Modify a storage port

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

### **Description**

The `storage port modify` command modifies the attributes of a storage port.

### **Parameters**

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

This parameter specifies the name of the node.

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

This parameter specifies the name of the port.

#### **[-mode {storage|network}] - Mode**

This parameter specifies the usage mode for an Ethernet port - storage or network use. The mode parameter only applies to Ethernet ports that are not dedicated to storage connectivity.

#### **[-force <true>] - Force (privilege: advanced)**

This parameter allows the operation to override warnings.

## **Examples**

The following example places a nondedicated Ethernet port in storage mode:

```
cluster1::> storage port show
Speed
Node          Port Type  Mode      VLAN      State   Status      ID
-----
cluster1-01
    e0b  ENET  network    - -        -        -
    e0c  ENET  -          100 enabled  online    30
    e0e  ENET  storage    0 enabled  offline   30
    e0f  ENET  -          100 enabled  online    30
cluster1-02
    e0b  ENET  storage    0 enabled  offline   30
    e0c  ENET  -          100 enabled  online    30
    e0e  ENET  storage    0 enabled  offline   30
    e0f  ENET  -          100 enabled  online    30
8 entries were displayed.
```

```
cluster1::> storage port modify -node cluster1-01 -port e0b -mode storage
```

```
cluster1::> storage port show
Speed
Node          Port Type  Mode      VLAN      State   Status      ID
-----
cluster1-01
    e0b  ENET  storage    0 enabled  offline   30
    e0c  ENET  -          100 enabled  online    30
    e0e  ENET  storage    0 enabled  offline   30
    e0f  ENET  -          100 enabled  online    30
cluster1-02
    e0b  ENET  storage    0 enabled  offline   30
    e0c  ENET  -          100 enabled  online    30
    e0e  ENET  storage    0 enabled  offline   30
    e0f  ENET  -          100 enabled  online    30
8 entries were displayed.
```

## 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. This command is not supported on Ethernet storage ports (type = ENET).

## Parameters

**-node {<nodename>|local} - Node (privilege: advanced)**

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

**-port <text> - Port (privilege: advanced)**

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. This command is not supported on Ethernet storage ports (type = ENET).

## Parameters

**-node {<nodename>|local} - Node (privilege: advanced)**

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

**-port <text> - Port (privilege: advanced)**

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

**{ -shelf-name <text> - Shelf Name (privilege: advanced)**

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

**-bay-id <integer> - Bay ID (privilege: advanced)**

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

**| -loop-id <integer> - Loop ID (privilege: advanced) }**

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. This command is not supported on Ethernet storage ports (type = ENET).

### Parameters

**-node {<nodename>|local} - Node (privilege: advanced)**

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

**-port <text> - Port (privilege: advanced)**

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|ENET}] - Port Type**

Selects the ports of the specified type.

**[-port-speed {0|1|1.5|2|2.5|3|4|5|6|8|10|12|14|16|25|32|40|100}] - Port Speed**

Selects the ports with the specified speed.

**[-state {enabled|disabled|enable-pending|disable-pending}] - 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.

**[-is-dedicated {true|false}] - Is Dedicated Storage Port?**

Selects the ports that match the specified value for storage-only ports. This value is always true for FC and SAS ports, as well as for ENET ports that are dedicated to storage.

**[-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.

**[-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`|`2.5`|`3`|`4`|`5`|`6`|`8`|`10`|`12`|`14`|`16`|`25`|`32`|`40`|`100`}] - Phy Speed**

Selects the ports that have phys with the specified speed.

**[`-mac-address` <text>] - MAC Address**

Selects ports that match the specified MAC address.

**[`-vlan-id` <integer>] - VLAN ID**

Selects the ports with the specified VLAN ID.

**[`-vendor-id` <text>] - Vendor ID**

Selects the ports with the specified vendor ID.

**[`-vendor-part-id` <text>] - Vendor part ID**

Selects the ports with the specified vendor part ID.

**[`-device-type` <text>] - Device type**

Selects ports that match the specified device type.

**[`-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.

**[`-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-type` {`QSFP`|`QSFP+`|`QSFP28`|`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.

**[-mode {storage|network}] - Mode**

Selects the ports with the specified mode.

**[-is-redundant {true|false}] - Is Redundant?**

Selects the ports that are redundant (true) or not redundant (false). A port is redundant if all attached devices have a second path through another port.

**[-in-use {true|false}] - In Use?**

Selects the ports that are in use (true) or not in use (false). A port is in use if any devices are connected using this port.

## Examples

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

```
cluster1::> storage port show
Speed
Node          Port Type Mode      (Gb/s) State   Status   ID
-----
cluster1-01
    4a    SAS  -        0 enabled offline  -
    4b    SAS  -        0 enabled offline  -
    4c    SAS  -        0 enabled offline  -
    4d    SAS  -        0 enabled offline  -
    e3a   ENET network - -      -         -
    e3b   ENET storage 100 enabled online   30
    e5a   ENET storage 100 enabled online   30
    e5b   ENET network - -      -         -
cluster1-02
    4a    SAS  -        0 enabled offline  -
    4b    SAS  -        0 enabled offline  -
    4c    SAS  -        0 enabled offline  -
    4d    SAS  -        0 enabled offline  -
    e3a   ENET network - -      -         -
    e3b   ENET storage 100 enabled online   30
    e5a   ENET storage 100 enabled online   30
    e5b   ENET network - -      -         -
16 entries were displayed.
```

The following example displays detailed information about port e5a on node node1:

```
cluster1::> storage port show -node cluster1-01 -port e5a
Node: cluster1-01
      Port: e5a
      Port Type: ENET
      Mode: storage
      Description: 40G/100G Ethernet Controller CX5
      Firmware Revision: 16.23.1020
      MAC Address: ec:0d:9a:65:e4:44
      Is Dedicated: false
      Serial Number: MT1730X00227
      Connector Vendor: Molex Inc.
      Connector Part Number: 112-00322
      Connector Serial Number: 532120266
      Port Speed: 100 Gb/s
      Port State: enabled
      Port Status: online
```

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