storage port commands

ONTAP 9.7 commands

NetApp
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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 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.

Examples

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

```
cluster1::> storage port show

Node                Port Type   (Gb/s) State    Status            ID
Dedicated
------------------ ---- -----  ------ -------- --------------- ----
---------
csertp-a800-1a
                    4a   SAS         0 enabled  offline         -     true
                    4b   SAS         0 enabled  offline         -     true
                    4c   SAS         0 enabled  offline         -     true
                    4d   SAS         0 enabled  offline         -     true
                    e3a  ENET       40 disabled online          31    false
                    e3b  ENET        0 disabled offline         31    false
                    e5a  ENET       10 disabled online          31    false
                    e5b  ENET       10 disabled online          31    false
csertp-a800-1b
                    4a   SAS         0 enabled  offline         -     true
                    4b   SAS         0 enabled  offline         -     true
                    4c   SAS         0 enabled  offline         -     true
                    4d   SAS         0 enabled  offline         -     true
                    e3a  ENET       40 disabled online          31    false
                    e3b  ENET        0 disabled offline         31    false
                    e5a  ENET       10 disabled online          31    false
                    e5b  ENET       10 disabled online          31    false
16 entries were displayed.
```

The following example displays detailed information about port e3a on node node1:

```
cluster1::> storage port show -node node1 -port e3a
Node: node1
                     Port: e3a
                Port Type: ENET
             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: 40 Gb/s
              Port State: disabled
             Port Status: online
```