storage port commands

ONTAP 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 (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                           VLAN
Node           Port Type  Mode    (Gb/s) 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                           VLAN
Node           Port Type  Mode    (Gb/s) 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                       VLAN
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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