



storage bridge commands

ONTAP commands

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storage bridge commands

storage bridge add

Add a bridge for monitoring

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

Description

The storage bridge add command enables you to add FC-to-SAS bridges for SNMP monitoring in a MetroCluster configuration.

Parameters

-address <IP Address> - Bridge Management Port IP Address

This parameter specifies the IP address of the bridge that is being added for monitoring.

[-snmp-community <text>] - SNMP Community

This parameter specifies the SNMP community set on the bridge that is being added for monitoring.

[-veto-backend-fabric-check {true|false}] - Veto Backend Fabric Check (privilege: advanced)

If specified, the storage bridge add command will not check if the bridge is present in the MetroCluster's backend fabric. By default, it does not let you add bridges that are not present.

Examples

The following command adds a bridge with IP address '10.226.197.16' for monitoring:

```

cluster1::> storage bridge add -address 10.226.197.16
cluster1::> storage bridge show
                                         Is
Monitor
  Bridge      Symbolic Name Vendor  Model      Bridge WWN      Monitored
Status
  -----
  -----
  ATTO_10.226.197.16
    Bridge Number 16
    Atto          FibreBridge 6500N
                  2000001086603824 true
  -
  ATTO_FibreBridge6500N_2
    Not Set      Atto          FibreBridge 6500N
                  20000010866037e8 false
  -
  ATTO_FibreBridge6500N_3
    Not Set      Atto          FibreBridge 6500N
                  2000001086609e0e false
  -
  ATTO_FibreBridge6500N_4
    Not Set      Atto          FibreBridge 6500N
                  2000001086609c06 false
  -
  4 entries were displayed.
cluster1::>

```

storage bridge modify

Modify a bridge's configuration information

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

Description

The `storage bridge modify` enables you to modify certain parameters for identifying and accessing the FC-to-SAS bridges added for monitoring in a MetroCluster configuration.

Parameters

-name <text> - Bridge Name

This parameter specifies the name of the bridge.

[-address <IP Address>] - Bridge IP Address

This parameter specifies the IP address of the bridge.

[-snmp-community <text>] - SNMP Community Set on the Bridge

This parameter specifies the SNMP community set on the bridge.

Examples

The following command modifies 'ATTO_10.226.197.16' bridge SNMP community to 'public':

```
cluster1::> storage bridge modify -name ATTO_10.226.197.16 -address  
10.226.197.16 -snmp-community public  
cluster1::>
```

storage bridge refresh

Refresh storage bridge info

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

Description

The *storage bridge refresh* command triggers a refresh of the SNMP data for the MetroCluster FC switches and FC-to-SAS bridges. It does not do anything if the refresh is already going on. The FC switches and FC-to-SAS bridges must have been previously added for monitoring by using the [storage switch add](#) and [storage bridge add](#) commands respectively.

Examples

The following command triggers a refresh for the SNMP data:

```
cluster1::*> storage bridge refresh  
cluster1::*>
```

Related Links

- [storage switch add](#)
- [storage bridge add](#)

storage bridge remove

Remove a bridge from monitoring

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

Description

The `storage bridge remove` enables you to remove FC-to-SAS bridges that were previously added for SNMP monitoring.

Parameters

-name <text> - Bridge Name

This parameter specifies the name of the bridge added for monitoring.

Examples

The following command removes 'ATTO_10.226.197.16' bridge from monitoring:

```
cluster1::> storage bridge remove -name ATTO_10.226.197.16
cluster1::> storage bridge show
                                         Is
Monitor
  Bridge      Symbolic Name Vendor  Model      Bridge WWN      Monitored
Status
-----
-----
  ATTO_FibreBridge6500N_1
      Bridge Number 16
          Atto      FibreBridge 6500N
                      2000001086603824  false
-
  ATTO_FibreBridge6500N_2
      Not Set      Atto      FibreBridge 6500N
                      20000010866037e8  false
-
  ATTO_FibreBridge6500N_3
      Not Set      Atto      FibreBridge 6500N
                      2000001086609e0e  false
-
  ATTO_FibreBridge6500N_4
      Not Set      Atto      FibreBridge 6500N
                      2000001086609c06  false
-
  4 entries were displayed.
```

storage bridge show

Display bridge information

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

Description

The `storage bridge show` command displays information about all the storage bridges in the MetroCluster configuration. The bridges must have been previously added for monitoring using the [storage bridge add](#) command. If no parameters are specified, the default command displays the following information about the storage bridges:

- Bridge
- Symbolic Name
- Vendor
- Model
- Bridge WWN
- Is Monitored
- Monitor Status

To display detailed profile information about a single storage bridge, use the `-name` parameter.

Parameters

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

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

| [-connectivity]

Displays the following details about the connectivity from different entities to the storage bridge:

- Node
- Initiator
- Initiator Side Switch Port
- Target Side Switch Port
- Target Port WWN
- Target Port Number

| [-cooling]

Displays the following details about the chassis temperature sensor(s) on the storage bridge:

- Sensor Name
- Reading in degree Celsius ©
- Fan operational status
- Minimum Safe Operating Temperature in degree Celsius ©
- Maximum Safe Operating Temperature in degree Celsius ©
- Sensor Status

| [-error]

Displays the errors related to the storage bridge.

| [-ports]

Displays the following details about the storage bridge FC ports:

- Port number
- Port administrative status
- Port operational status
- Port operating mode
- Port negotiated speed
- Peer world wide name

Displays the following details about the storage bridge SAS ports:

- Port number
- Port negotiated data rate
- Port data rate capability
- Port PHY1 operational status
- Port PHY2 operational status
- Port PHY3 operational status
- Port PHY4 operational status
- Port administrative status
- Port operational status
- Peer world wide name

| [-power]

Displays the status of the replaceable power supplies for the FibreBridge 7500 only:

- Power supply name
- Power supply status

| [-sfp]

Displays the following details about the storage bridge FC ports Small Form-factor Pluggable (SFP):

- Port number
- SFP vendor
- SFP serial number
- SFP part number
- SFP speed capability

Displays the following details about the storage bridge SAS ports Quad Small Form-factor Pluggable (QSFP):

- Port number
- QSFP vendor
- QSFP serial number

- QSFP type
- QSFP part number

Displays the following details about the storage bridge SAS ports Mini-SAS HD:

- Port number
- Mini-SAS HD vendor
- Mini-SAS HD serial number
- Mini-SAS HD type
- Mini-SAS HD part number

| [-stats]

Displays the following details about the storage bridge FC ports:

- Port number
- Port operational status
- Port operational mode
- Port negotiated speed
- Port link failure count
- Port synchronization loss count
- Port CRC error count
- Port operational mode
- Port received word count (Rx)
- Port transmitted word count (Tx)

Displays the following details about the storage bridge SAS ports:

- Port number
- PHY port number
- Port negotiated speed
- Port speed capability
- Port invalid DWORD count
- Port disparity error count
- Port synchronization loss count
- Port PHY reset count
- Port link changed count
- Port CRC error count

| [-instance] }

Displays expanded information about all the storage bridges in the system. If a storage bridge is specified, then this parameter displays the same detailed information for the storage bridge you specify as does the -name parameter.

[-name <text>] - Bridge Name

Displays information only about the storage bridges that match the name you specify.

[-wwn <text>] - Bridge World Wide Name

Displays information only about the storage bridges that match the bridge wwn you specify.

[-model <text>] - Bridge Model

Displays information only about the storage bridges that match the bridge model you specify.

[-vendor {unknown|Atto}] - Bridge Vendor

Displays information only about the storage bridges that match the bridge vendor you specify.

[-fw-version <text>] - Bridge Firmware Version

Displays information only about the storage bridges that match the bridge firmware version you specify.

[-serial-number <text>] - Bridge Serial Number

Displays information only about the storage bridges that match the bridge serial number you specify.

[-address <IP Address>] - Bridge IP Address

Displays information only about the storage bridges that match the bridge IP address you specify.

[-is-monitoring-enabled {true|false}] - Is Monitoring Enabled for Bridge?

Displays information only about the storage bridges that match the bridge monitoring value you specify.

[-status {unknown|ok|error}] - Bridge Status

Displays information only about the storage bridges that match the bridge monitoring status you specify.

[-profile-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [+|-hh:mm]}] - Bridge Profile Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the profile data last successful refresh timestamp you specify.

[-symbolic-name <text>] - Bridge Symbolic Name

Displays information only about the storage bridges that match the symbolic name you specify.

[-snmp-community <text>] - SNMP Community Set on the Bridge

Displays information only about the storage bridges that match the bridge SNMP community you specify.

[-error-text-list <text>, ...] - Bridge Error Description List

Displays information only about the storage bridges that have the errors you specify.

[-temp-sensor-name <text>] - Temperature Sensor Name

Displays information only about the storage bridges that have the temperature sensor with the name you specify.

[-min-safe-oper-temp <integer>] - Minimum Safe Operating Temperature in Degree Celsius

Displays information only about the storage bridges that have the temperature sensor with the minimum safe operating temperature you specify.

[-max-safe-oper-temp <integer>] - Maximum Safe Operating Temperature in Degree Celsius

Displays information only about the storage bridges that have the temperature sensor with the maximum safe operating temperature you specify.

[-temp-reading <integer>] - Chassis Temperature Sensor Reading in Degree Celsius

Displays information only about the storage bridges that have the temperature sensors with the reading you specify.

[-temp-sensor-status {normal|warning|critical}] - Chassis Temperature Sensor Status

Displays information only about the storage bridges that have the temperature sensor with the status you specify.

[-temp-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge Chassis Temperature Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the temperature sensor data last successful refresh timestamp you specify.

[-fc-port-index-list <integer>, ...] - Bridge FC Port Index List

Displays information only about the storage bridges that have the ports with the indexes you specify.

[-fc-port-oper-state-list {unknown|online|offline}] - Bridge FC Port Operational State List

Displays information only about the storage bridges that have the ports with the operational states you specify.

[-fc-port-admin-state-list {unknown|disabled|enabled}] - Bridge FC Port Admin State List

Displays information only about the storage bridges that have the ports with the administrative states you specify.

[-fc-port-negotiated-data-rate-list {unknown|2|4|8|16}] - Bridge FC Port Negotiated Data Rate List

Displays information only about the storage bridges that have the ports with the negotiated data rates you specify.

[-fc-port-negotiated-conn-mode-list {unknown|loop|n-port}] - Bridge FC Port Negotiated Connection Mode List

Displays information only about the storage bridges that have the ports with the negotiated connection modes you specify.

[-fc-port-wwn-list <text>, ...] - Bridge FC Port WWN List

Displays information only about the storage bridges that have the ports with the world wide names you specify.

[-fc-port-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge FC Port Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the FC ports data last successful refresh timestamp you specify.

[-fc-port-stats-index-list <integer>, ...] - Bridge FC Port Index List

Displays information only about the storage bridges that have the ports with the indexes you specify.

[-fc-port-tx-words-list <integer>, ...] - Bridge FC Port Transmitted Word Count List

Displays information only about the storage bridges that have the ports with the number of transmitted words you specify.

[-fc-port-rx-words-list <integer>, ...] - Bridge FC Port Received Word Count List

Displays information only about the storage bridges that have the ports with the number of received words you specify.

[-fc-port-link-failures-list <integer>, ...] - Bridge FC Port Link Failure Count List

Displays information only about the storage bridges that have the ports with the number of link failures you specify.

[-fc-port-sync-losses-list <integer>, ...] - Bridge FC Port Sync Loss Count List

Displays information only about the storage bridges that have the ports with the number of synchronization losses you specify.

[-fc-port-invalid-crc-list <integer>, ...] - Bridge FC Port Invalid CRC Count List

Displays information only about the storage bridges that have the ports with the number of invalid CRCs you specify.

[-fc-port-stats-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge FC Port Stats Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the fc port stats data last successful refresh timestamp you specify.

[-sas-port-index-list <integer>, ...] - Bridge SAS Port Index List

Displays information only about the storage bridges that have the SAS ports with the indexes you specify.

[-sas-port-oper-state-list {unknown|online|offline|degraded}] - Bridge SAS Port Operational State List

Displays information only about the storage bridges that have the SAS ports with the operational states you specify.

[-sas-port-phy1-oper-state-list {unknown|online|offline}] - Bridge SAS Port PHY1 Operational State List

Displays information only about the storage bridges that have the SAS ports with the PHY1 operational states you specify.

[-sas-port-phy2-oper-state-list {unknown|online|offline}] - Bridge SAS Port PHY2 Operational State List

Displays information only about the storage bridges that have the SAS ports with the PHY2 operational states you specify.

[-sas-port-phy3-oper-state-list {unknown|online|offline}] - Bridge SAS Port PHY3 Operational State List

Displays information only about the storage bridges that have the SAS ports with the PHY3 operational states you specify.

[-sas-port-phy4-oper-state-list {unknown|online|offline}] - Bridge SAS Port PHY4 Operational State List

Displays information only about the storage bridges that have the SAS ports with the PHY4 operational

states you specify.

[-sas-port-admin-state-list {unknown|disabled|enabled}] - Bridge SAS Port Administrative State List

Displays information only about the storage bridges that have the SAS ports with the administrative states you specify.

[-sas-port-data-rate-capability-list {unknown|1.5Gbps|3Gbps|6Gbps|12Gbps}] - Bridge SAS Port Data Rate Capability List

Displays information only about the storage bridges that have the SAS ports with the data rate capabilities you specify.

[-sas-port-negotiated-data-rate-list {unknown|1.5Gbps|3Gbps|6Gbps|12Gbps}] - Bridge SAS Port Negotiated Data Rate List

Displays information only about the storage bridges that have the SAS ports with the negotiated data rates you specify.

[-sas-port-wwn-list <text>, ...] - Bridge SAS Port WWN List

Displays information only about the storage bridges that have the SAS ports with the world wide names you specify.

[-sas-port-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [+|-hh:mm]}] - Bridge SAS Port DB Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the SAS ports data last successful refresh timestamp you specify.

[-sas-port-stats-phy-index-list <integer>, ...] - Bridge SAS Port PHY Index List

Displays information only about the storage bridges that have the SAS ports with the PHY indexes you specify.

[-sas-port-link-changed-list <integer>, ...] - Bridge SAS Port Link Changed Count List

Displays information only about the storage bridges that have the SAS ports with the link changed count you specify.

[-sas-port-invalid-crc-list <integer>, ...] - Bridge SAS Port Invalid CRC Count List

Displays information only about the storage bridges that have the SAS ports with the invalid CRCs you specify.

[-sas-port-phy-reset-list <integer>, ...] - Bridge SAS Port PHY Reset Count List

Displays information only about the storage bridges that have the SAS ports with the PHY reset count you specify.

[-sas-port-sync-losses-list <integer>, ...] - Bridge SAS Port Sync Loss Count List

Displays information only about the storage bridges that have the SAS ports with the synchronization losses you specify.

[-sas-port-disparity-count-list <integer>, ...] - Bridge SAS Port Disparity Count List

Displays information only about the storage bridges that have the SAS ports with the disparity count you specify.

[-sas-port-invalid-dword-list <integer>, ...] - Bridge SAS Port Invalid DWORD Count List

Displays information only about the storage bridges that have the SAS ports with the invalid DWORD count you specify.

[-sas-port-stats-index-list <integer>, ...] - Bridge SAS Port Index List

Displays information only about the storage bridges that have the SAS ports with the indexes you specify.

[-sas-port-stats-data-rate-capability-list {unknown|1.5Gbps|3Gbps|6Gbps|12Gbps}] - Bridge SAS Port Data Rate Capability List

Displays information only about the storage bridges that have the SAS ports with the data rate capabilities you specify.

[-sas-port-stats-negotiated-data-rate-list {unknown|1.5Gbps|3Gbps|6Gbps|12Gbps}] - Bridge SAS Port Negotiated Data Rate List

Displays information only about the storage bridges that have the SAS ports with the negotiated data rates you specify.

[-sas-port-stats-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge SAS Port Statistics Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the SAS port stats data last successful refresh timestamp you specify.

[-fc-sfp-port-index-list <integer>, ...] - Bridge FC Port Index List

Displays information only about the storage bridges that have the FC ports with the indexes you specify.

[-fc-port-sfp-vendor-list <text>, ...] - Bridge FC Port SFP Vendor List

Displays information only about the storage bridges that have the FC ports with the SFP vendors you specify.

[-fc-port-sfp-serial-number-list <text>, ...] - Bridge FC Port SFP Serial Number List

Displays information only about the storage bridges that have the FC ports with the SFP serial numbers you specify.

[-fc-port-sfp-part-number-list <text>, ...] - Bridge FC Port SFP Part Number List

Displays information only about the storage bridges that have the FC ports with the SFP part numbers you specify.

[-fc-port-sfp-data-rate-capability-list {2Gb|4Gb|8Gb|16Gb}] - Bridge FC Port SFP Data Rate Capability List

Displays information only about the storage bridges that have the FC ports with the SFP data rate capabilities you specify.

[-fc-port-sfp-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge FC Port SFP Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the FC ports SFP data last successful refresh timestamp you specify.

[-sas-qsfport-index-list <integer>, ...] - Bridge SAS Port Index List

Displays information only about the storage bridges that have the SAS ports with the indexes you specify.

[-sas-port-qsfp-vendor-list <text>, ...] - Bridge SAS Port QSFP Vendor List

Displays information only about the storage bridges that have the SAS ports with the QSFP vendors you specify.

[-sas-port-qsfp-serial-number-list <text>, ...] - Bridge SAS Port QSFP Serial Number List

Displays information only about the storage bridges that have the SAS ports with the QSFP serial numbers you specify.

[-sas-port-qsfp-type-list {unknown|optical|active-copper|passive-copper}] - Bridge SAS Port QSFP Type List

Displays information only about the storage bridges that have the SAS ports with the QSFP types you specify.

[-sas-port-qsfp-part-number-list <text>, ...] - Bridge SAS Port QSFP Part Number List

Displays information only about the storage bridges that have the SAS ports with the QSFP part numbers you specify.

[-sas-port-qsfp-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge SAS Port QSFP Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the SAS ports QSFP data last successful refresh timestamp you specify.

[-mini-sas-hd-index-list <integer>, ...] - Bridge Mini-SAS HD Index List

Displays information only about the storage bridges that have SAS ports with the Mini-SAS HD indexes that you specify.

[-mini-sas-hd-vendor-list <text>, ...] - Bridge Mini-SAS HD Vendor List

Displays information only about the storage bridges that have SAS ports with the Mini-SAS HD vendors that you specify.

[-mini-sas-hd-serial-number-list <text>, ...] - Bridge Mini-SAS HD Serial Number List

Displays information only about the storage bridges that have SAS ports with the Mini-SAS HD serial numbers that you specify.

[-mini-sas-hd-type-list <text>, ...] - Bridge Mini-SAS HD Type List

Displays information only about the storage bridges that have SAS ports with the Mini-SAS HD types that you specify.

[-mini-sas-hd-part-number-list <text>, ...] - Bridge Mini-SAS HD Part Number List

Displays information only about the storage bridges that have SAS ports with the Mini-SAS HD part numbers that you specify.

[-mini-sas-hd-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge Mini-SAS HD Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the SAS ports Mini-SAS HD data with the last successful refresh timestamp that you specify.

[-power-supply-index-list <integer>, ...] - Bridge Power Supply Index List

Displays information only about the storage bridges that have power supplies with the indexes that you specify.

[-power-supply-name-list <text>, ...] - Bridge Power Supply Name List

Displays information only about the storage bridges that have power supplies with the name that you specify.

[-power-supply-status-list {unknown|down|up}] - Bridge Power Supply Status List

Displays information only about the storage bridges that have power supplies with the status that you specify.

[-power-supply-data-last-successful-refresh-timestamp {MM/DD/YYYY HH:MM:SS [{+|-}hh:mm]}] - Bridge Power Supply Data Last Successful Refresh Timestamp

Displays information only about the storage bridges that match the power supply last data with the last successful refresh timestamp that you specify.

[-node-list {<nodename>|local}] - Node Name List

Displays information only about the storage bridges that are connected to the nodes you specify.

[-initiator-list <text>, ...] - Initiator List

Displays information only about the storage bridges that are connected to the nodes hosting the initiators you specify.

[-initiator-side-switch-port-name-list <text>, ...] - Initiator Side Switch Port Name List

Displays information only about the storage bridges that are connected to the initiator side switch ports you specify.

[-target-side-switch-port-name-list <text>, ...] - Target Side Switch Port Name List

Displays information only about the storage bridges that are connected to the target side switch ports you specify.

[-target-port-wwn-list <text>, ...] - Target Port WWN List

Displays information only about the storage bridges that match the target ports with world wide names you specify.

[-target-port-index-list <integer>, ...] - Target Port Index List

Displays information only about the storage bridges that match the target ports with indexes you specify.

Examples

The following example displays information about all storage bridges:

```

cluster1::> storage bridge show
                                         Is
Monitor
  Bridge      Symbolic Name Vendor  Model      Bridge WWN      Monitored
Status
-----
-----
  ATTO_10.226.197.16
      Bridge Number 16 retyped
          Atto      FibreBridge 6500N
          2000001086603824 true
ok
  ATTO_10.226.197.17
      Not Set      Atto      FibreBridge 6500N
          20000010866037e8 true
ok
  ATTO_10.226.197.18
      Not Set      Atto      FibreBridge 6500N
          2000001086609e0e true
ok
  ATTO_10.226.197.19
      Not Set      Atto      FibreBridge 6500N
          2000001086609c06 true
ok
4 entries were displayed.
cluster1::>

```

The following example displays connectivity (node to bridge) information about all storage bridges:

```

cluster1::> storage bridge show -connectivity
Bridge Name: ATTO_10.226.197.16
    Bridge WWN: 2000001086603824
        Vendor: Atto
        Model: FibreBridge 6500N
        Serial Number: FB6500N101405
        Firmware Version: 1.60 A68E 51.01
        Management IP: 10.226.197.16
        Errors: -
Initiator Side Target Side          Port
    Node           Initiator     Switch Port Switch Port Target Port WWN
No
-----
dpg-mcc-3240-15-b1  0c mcc-cisco-8Gb-fab-3:1-29
                           mcc-cisco-8Gb-fab-1:1-25
                           2100001086603824
1
    dpg-mcc-3240-15-b2  0c mcc-cisco-8Gb-fab-3:1-30
                           mcc-cisco-8Gb-fab-1:1-25
                           2100001086603824
1

```

The following command displays cooling (temperature sensors) information about all storage bridges:

```

cluster1::> storage bridge show -cooling
Bridge Name: ATTO_10.226.197.16
    Bridge WWN: 2000001086603824
        Vendor: Atto
        Model: FibreBridge 6500N
        Serial Number: FB6500N101405
        Firmware Version: 1.60 A68E 51.01
        Management IP: 10.226.197.16
        Errors: -
Chassis Temperature Sensor:
    Min Safe  Max Safe
    Sensor Name Reading Oper Temp Oper Temp Status
-----
    Chassis          42          0          70  normal
    Temperature
    Sensor

```

The following command displays the error information about all storage bridges:

```
cluster1::> storage bridge show -error
Bridge Name: ATTO_10.226.197.16
  Bridge WWN: 2000001086603824

-----
-----
  ATTO_10.226.197.16(2000001086603824):Bridge is Unreachable over
Management Network.
Bridge Name: ATTO_10.226.197.17
  Bridge WWN: 20000010866037e8

-----
-----
  ATTO_10.226.197.17(20000010866037e8):Bridge is Unreachable over
Management Network.
Bridge Name: ATTO_10.226.197.18
  Bridge WWN: 2000001086609e0e

-----
-----
  ATTO_10.226.197.18(2000001086609e0e):Bridge is Unreachable over
Management Network.
Bridge Name: ATTO_10.226.197.19
  Bridge WWN: 2000001086609c06

-----
-----
  ATTO_10.226.197.19(2000001086609c06):Bridge is Unreachable over
Management Network.
4 entries were displayed.
```

The following command displays the detailed information about all the storage bridges:

```
cluster1::> storage bridge show -instance
Bridge Name: ATTO_10.226.197.16
  Bridge WWN: 2000001086603824
    Vendor: Atto
    Model: FibreBridge 6500N
    Serial Number: FB6500N101405
    Firmware Version: 1.60 A68E 51.01
    Management IP: 10.226.197.16
    Errors: -
```

The following command displays power supply information about all storage bridges:

```
cluster1::> storage bridge show -power
      Bridge Name: ATTO_10.226.197.47
      Bridge WWN: 2000001086601506
      Vendor: Atto
      Model: FibreBridge 6500N
      Serial Number: FB6500N100526
      Firmware Version: 1.60 069G 51.01
      Management IP: 10.226.197.47
      Errors: -
      Last Update Time: -
```

Bridge Power Supplies:

Power Supply	Name	Status
-----	-----	-----
		- -

```
      Bridge Name: ATTO_10.226.197.48
      Bridge WWN: 20000010867002d0
      Vendor: Atto
      Model: FibreBridge 7500N
      Serial Number: FB7500N100018
      Firmware Version: 2.00 006U 105.01
      Management IP: 10.226.197.48
      Errors: -
      Last Update Time: 10/22/2015 13:37:37 -04:00
```

Bridge Power Supplies:

Power Supply	Name	Status
-----	-----	-----
		A up
		B down

The following command displays port information about all storage bridges:

```

cluster1::> storage bridge show -ports
Bridge Name: ATTO_10.226.197.16
    Bridge WWN: 2000001086603824
        Vendor: Atto
        Model: FibreBridge 6500N
        Serial Number: FB6500N101405
        Firmware Version: 1.60 A68E 51.01
        Management IP: 10.226.197.16
        Errors: -

FC Ports:
    Admin      Oper          Neg
    Ports Status Status Port Mode      Speed WWPN
    ----- -----
        1 enabled  online  n-port          8gb 2100001086603824
        2 enabled  offline unknown      unknown 2200001086603824

Last Update Time: 8/12/2014 12:34:36 -04:00

SAS Ports:
    Neg Data
    Data Rate PHY1      PHY2      PHY3      PHY4      Admin      Oper
    Ports Rate Cap Status Status Status Status Status Status WWPN
    ----- -----
    1
    3Gbps
        6Gbps online  online  online  online  enabled  online
5001086000603824
    2
    6Gbps
        6Gbps offline offline offline offline disabled offline
0000000000000000

```

The following command displays port SFP information about all storage bridges:

```

cluster1::> storage bridge show -sfp
Bridge Name: ATTO_10.226.197.47
    Bridge WWN: 2000001086601506
        Vendor: Atto
        Model: FibreBridge 6500N
        Serial Number: FB6500N100526
        Firmware Version: 1.60 069G 51.01
        Management IP: 10.226.197.47
        Errors: -

Last Update Time: 10/22/2015 13:27:37 -04:00

FC SFP:

```

Speed

Ports	Vendor	Serial Number	Part Number
-------	--------	---------------	-------------

Capability

-----	-----	-----	-----
-------	-------	-------	-------

1	AVAGO	AD1020A01FC	AFBR-57D7APZ
8Gbps			
2	AVAGO	AD1020A01F7	AFBR-57D7APZ
8Gbps			

Last Update Timestamp: 10/22/2015 13:27:37 -04:00

SAS QSFP:

Ports	Vendor	Serial Number	SFP Type	Part Number
-------	--------	---------------	----------	-------------

-----	-----	-----	-----	-----
-------	-------	-------	-------	-------

1	Molex Inc.	005820292	passive-copper	112-00176
2	-	-	unknown	-

Last Update Timestamp: -

Mini-SAS HD:

Ports	Vendor	Serial Number	SFP Type	Part Number
-------	--------	---------------	----------	-------------

-----	-----	-----	-----	-----
-------	-------	-------	-------	-------

Bridge Name: ATTO_10.226.197.48

Bridge WWN: 20000010867002d0

Vendor: Atto

Model: FibreBridge 7500N

Serial Number: FB7500N100018

Firmware Version: 2.00 006U 105.01

Management IP: 10.226.197.48

Errors: -

Last Update Time: 10/22/2015 13:27:37 -04:00

FC SFP:

Speed

Ports	Vendor	Serial Number	Part Number
-------	--------	---------------	-------------

Capability

-----	-----	-----	-----
-------	-------	-------	-------

1 AVAGO	AC1442J00L5	AFBR-57F5MZ
16Gbps		
2 AVAGO	AC1442J00L0	AFBR-57F5MZ
16Gbps		

Last Update Timestamp: -

SAS QSFP:

Ports	Vendor	Serial Number	SFP Type	Part Number
-	-	-	-	-

Last Update Timestamp: 10/22/2015 13:27:37 -04:00

Mini-SAS HD:

Ports	Vendor	Serial Number	SFP Type	Part Number
-	-	-	-	-
1	Amphenol	APF14510026548	Passive Copper	1m ID:00 112-00429
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-

The following command displays port statistics information about all storage bridges:

```
cluster1::> storage bridge show -stats
Bridge Name: ATTO_10.226.197.16
    Bridge WWN: 2000001086603824
        Vendor: Atto
        Model: FibreBridge 6500N
        Serial Number: FB6500N101405
        Firmware Version: 1.60 A68E 51.01
        Management IP: 10.226.197.16
        Errors: -

FC Ports:
        Oper          Neg      Link      Sync      CRC      Rx
Tx
        Ports Status  Port Mode      Speed  Failure Losses Error      Words
Words
        ----- -----  -----  -----  -----  -----  -----  -----
        ----- -----  -----  -----  -----  -----  -----  -----
```

1	online	n-port	8gb	0	0	0	2721271731		
3049186605									
2	offline	unknown	unknown	1	1	0	0		
0									
Last Update Time: 8/12/2014 12:34:37 -04:00									
SAS Ports:									
CRC				Invalid	Disparity	Sync	PHY	Link	
SAS	PHY	Neg	Speed	Dword	Error	Loss	Reset	Changed	
Error									
Port	Port	Speed	Capability	Count	Count	Count	Count	Count	
Count									
-----	-----	-----	-----	-----	-----	-----	-----	-----	
0	1	0	3Gbps	6Gbps	28262	26665	2	0	1
0	1	1	3Gbps	6Gbps	2110	1794	20	0	1
0	1	2	3Gbps	6Gbps	20435	18857	13	0	1
0	1	3	3Gbps	6Gbps	4573	3353	16	0	1
0	2	0	6Gbps	6Gbps	66	53	0	0	0
0	2	1	6Gbps	6Gbps	27478	25137	2	0	0
0	2	2	6Gbps	6Gbps	20537	17322	9	0	0
0	2	3	6Gbps	6Gbps	23629	21767	10	0	0

Related Links

- [storage bridge add](#)

storage bridge config-dump collect

Retrieve and save bridge dumpconfiguration

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

Description

The `storage bridge config-dump collect` command retrieves a dumpconfiguration file from a storage bridge.

Parameters

-bridge <text> - Bridge Name (privilege: advanced)

Use this parameter to retrieve a dumpconfiguration file from the specified storage bridge.

Examples

The following example retrieves a dumpconfiguration file from storage bridge ATTO_FibreBridge7500N_1:

```
cluster1::*> storage bridge config-dump collect -bridge
ATTO_FibreBridge7500N_1
[Job 883] Job is queued: Collect the dumpconfiguration file from bridge
"ATTO_FibreBridge7500N_1".

cluster1::*>
```

storage bridge config-dump delete

Delete a dumpconfiguration file

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

Description

The storage bridge config-dump delete command deletes dumpconfiguration files previously retrieved with the [storage bridge config-dump collect](#) command.

Parameters

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

Use this parameter to delete a dumpconfiguration file stored on the specified node.

-file <text> - Config File (privilege: advanced)

Use this parameter to delete the dumpconfiguration file with the specified file name.

Examples

The following example deletes dsbridge_config.FB7500N100001.2017-04-28_14_49_30.txt from node1:

```
cluster1::*> storage bridge config-dump delete -node node1 -file
dsbridge_config.FB7500N100001.2017-04-28_14_49_30.txt

cluster1::*>
```

Related Links

- [storage bridge config-dump collect](#)

storage bridge config-dump show

Display a list of bridge dumpconfiguration files

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

Description

The `storage bridge config-dump show` command displays information about all the dumpconfiguration files previously retrieved with the [storage bridge config-dump collect](#) command. If no parameters are specified, the default command displays the following information about the dumpconfiguration files:

- Node
- File Name
- Timestamp
- Bridge
- Bridge Serial Number

To display detailed information about a single dumpconfiguration file, use the `-node` and `-file` parameters.

Parameters

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

If you specify the `-fields <fieldname>,...` parameter, the command output also includes the specified field or fields. You can use `-fields ?` to display the fields to specify.

| [-instance] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

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

Displays information about the dumpconfiguration files stored on the node that matches the specified node name.

[-file <text>] - Config File (privilege: advanced)

Displays information about the dumpconfiguration files that match the specified file name.

[-bridge <text>] - Bridge Name (privilege: advanced)

Displays information about the dumpconfiguration files from the storage bridge that matches the specified bridge name.

[-serial-number <text>] - Serial Number of Bridge (privilege: advanced)

Displays information about the dumpconfiguration files from the storage bridge that matches the specified serial number.

[-timestamp <MM/DD/YYYY HH:MM:SS>] - Time of Collection (privilege: advanced)

Displays information about the dumpconfiguration files that were collected at the specified time.

Examples

The following example displays information about all dumpconfiguration files:

```
cluster1::*> storage bridge config-dump show

Bridge: ATTO_FibreBridge7500N_1

Node  File Name                                Timestamp
----- -----
----- 
node1
    dsbridge_config.FB7500N100001.2017-05-01_09_53_53.txt 5/1/2017
09:53:53
node2
    dsbridge_config.FB7500N100001.2017-04-28_14_48_35.txt 4/28/2017
14:48:35
    dsbridge_config.FB7500N100001.2017-04-28_15_50_20.txt 4/28/2017
15:50:20
3 entries were displayed.

cluster1::*>
```

The following example displays detailed information about all dumpconfiguration files:

```
cluster1::*> storage bridge config-dump show -instance
Node: node1
    Bridge Name: ATTO_FibreBridge7500N_1
    Filename: dsbridge_config.FB7500N100001.2017-05-
01_09_53_53.txt
        Timestamp: 5/1/2017 09:53:53
Bridge Serial Number: FB7500N100001
Node: node2
    Bridge Name: ATTO_FibreBridge7500N_1
    Filename: dsbridge_config.FB7500N100001.2017-04-
28_14_48_35.txt
        Timestamp: 4/28/2017 14:48:35
Bridge Serial Number: FB7500N100001
Node: node2
    Bridge Name: ATTO_FibreBridge7500N_1
    Filename: dsbridge_config.FB7500N100001.2017-04-
28_15_50_20.txt
        Timestamp: 4/28/2017 15:50:20
Bridge Serial Number: FB7500N100001
3 entries were displayed.

cluster1::*>
```

Related Links

- [storage bridge config-dump collect](#)

storage bridge coredump collect

Retrieve and save coredump

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

Description

The `storage bridge coredump collect` command retrieves a core file from a storage bridge.

Parameters

-name <text> - Bridge Name

This parameter specifies the storage bridge name from which the coredump file is to be collected.

Examples

The following example retrieves a coredump from storage bridge ATTO_FibreBridge7500N_1:

```
cluster1::> storage bridge coredump collect -bridge
ATTO_FibreBridge7500N_1
[Job 883] Job is queued: Collect the coredump from bridge
"ATTO_FibreBridge7500N_1".  
  
cluster1::>
```

storage bridge coredump delete

Delete a saved coredump file.

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

Description

The `storage bridge coredump delete` command deletes a coredump file previously retrieved with the [storage bridge coredump collect](#) command.

Parameters

-name <text> - Bridge Name

This parameter specifies the name of the bridge that the coredump file belongs to.

-corename <text> - Coredump Filename

This parameter specifies the name of the coredump file to be deleted.

Examples

The following example deletes coredump file `core.FB7500N100018.1970-01-05.17_50_30.mem` collected from bridge `ATTO_FibreBridge7500N_1`:

```
cluster1::> storage bridge coredump delete -name ATTO_FibreBridge7500N_1
-corename core.FB7500N100018.1970-01-05.17_50_30.mem  
  
cluster1::>
```

Related Links

- [storage bridge coredump collect](#)

storage bridge coredump show

Display a list of bridge coredumps

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

Description

The `storage bridge coredump show` command displays information about all the coredump files previously retrieved with the [storage bridge coredump collect](#) command. If no parameters are specified, the default command displays the following information about the coredump files:

- Bridge Name
- Bridge Serial Number
- Coredump Filename
- Located on Node
- Panic Timestamp
- Panic String

To display detailed information about a single coredump file, use the `-node` and `-corename` parameters.

Parameters

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

If you specify the `-fields <fieldname>,...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

| [-instance] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-serial-number <text>] - Bridge Serial Number

Use this parameter to select the coredump files from the storage bridge that matches the specified bridge serial number.

[-corename <text>] - Coredump Filename

Use this parameter to select the coredump files that matches the specified file name.

[-name <text>] - Bridge Name

Use this parameter to select the coredump files from the storage bridge that matches the specified bridge name.

[-node <nodename>] - Located on Node

Use this parameter to select the coredump the coredump files that are located on the specified node.

[-panic-time <MM/DD/YYYY HH:MM:SS>] - Panic Timestamp

Use this parameter to select the coredump files that were collected at the specified time.

[-panic-string <text>] - Panic String

Use this parameter to select the coredump files that matches the specified panic string.

Examples

The following example displays information about all coredump files:

```
cluster1::> storage bridge coredump show
Bridge Name: ATTO_FibreBridge7500N_1
Bridge Serial Number: FB7500N100018
    Coredump Filename: core.FB7500N100018.1970-01-05.17_50_30.mem
        Located on Node: stg-8020-6a
        Panic Timestamp: 7/6/2017 11:03:37
            Panic String: CoreDumpGenerate CLI Command

cluster1::>
```

Related Links

- [storage bridge coredump collect](#)

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