metrocluster configuration-settings commands
ONTAP 9.13.1 commands

NetApp
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metrocluster configuration-settings show-status

Display the configuration settings status for a MetroCluster setup

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

Description

The `metrocluster configuration-settings show-status` command displays the configuration settings status for nodes in a MetroCluster setup. If a DR group has not been created, then status for nodes in the local cluster only are displayed.

Parameters

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

If you specify the -fields <fieldname>,... parameter, the command displays only the fields that you specify.

|-instance |

If this parameter is specified, the command displays detailed information about all entries.

[-cluster-uuid <UUID>] - Cluster UUID

If this parameter is specified, the command displays detailed information about all nodes in the cluster matching the specified cluster-uuid.

[-cluster <Cluster name>] - Cluster Name

If this parameter is specified, the command displays detailed information about all the nodes in the specified cluster.

[-node <text>] - Node Name

If this parameter is specified, the command displays information for the matching nodes.

[-configuration-status <text>] - Configuration Settings Status

If this parameter is specified, the command displays detailed information about all nodes with the specified configuration status.

[-config-error-info <text>] - Configuration Error Information

If this parameter is specified, the command displays detailed information about all nodes with the specified configuration error information.

Examples

The following example shows the display of MetroCluster setup status:

Nodes do not have a valid platform-specific personality value (equivalent to HAOSC parameter on non-Apollo platforms) for a MetroCluster setup.
### clusA::> metrocluster configuration-settings show-status

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Node</th>
<th>Configuration Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusA</td>
<td>A1</td>
<td>not a MetroCluster setup</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>not a MetroCluster setup</td>
</tr>
</tbody>
</table>

2 entries were displayed.

MetroCluster setup uses FC links rather than IP

---

### clusA::> metrocluster configuration-settings show-status

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Node</th>
<th>Configuration Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusA</td>
<td>A1</td>
<td>not applicable for FC and SAS</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>not applicable for FC and SAS</td>
</tr>
</tbody>
</table>

2 entries were displayed.

Output of the command when MetroCluster setup uses IP links and before `"metrocluster configuration-settings dr-group create"` command is run:

clusA::> metrocluster configuration-settings show-status

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Node</th>
<th>Configuration Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusA</td>
<td>A1</td>
<td>ready for DR group create</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>ready for DR group create</td>
</tr>
</tbody>
</table>

2 entries were displayed.

Output of the command after `"metrocluster configuration-settings dr-group create"` command is run:

clusA::> metrocluster configuration-settings show-status

<table>
<thead>
<tr>
<th>Cluster</th>
<th>Node</th>
<th>Configuration Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusA</td>
<td>A1</td>
<td>ready for interface create</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>ready for interface create</td>
</tr>
<tr>
<td>clusB</td>
<td>B1</td>
<td>ready for interface create</td>
</tr>
<tr>
<td></td>
<td>B2</td>
<td>ready for interface create</td>
</tr>
</tbody>
</table>

4 entries were displayed.

Output of the command after `"metrocluster configuration-settings interface create"` command is run for every node:
clusA::> metrocluster configuration-settings show-status
Cluster                    Node               Configuration Settings
Status
-------------------------- ------------------
---------------------------------
clusA
create
clusB

4 entries were displayed.
Output of the command after `metrocluster configuration-settings connection connect` command is run:
usA::> metrocluster configuration-settings show-status
Cluster                    Node               Configuration Settings
Status
-------------------------- ------------------
---------------------------------
clusA
clusB

4 entries were displayed.
Output of the command after `metrocluster configuration-settings connection connect` command is run and there are connection errors:
clusA::> metrocluster configuration-settings show-status
Cluster                    Node               Configuration Settings
Status
-------------------------- ------------------
---------------------------------
clusA
clusB

4 entries were displayed.

**metrocluster configuration-settings calibration measure**

Measure latency and bandwidth values

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

The `metrocluster configuration-settings calibration measure` command measures the bandwidth and latency between local and remote nodes in a MetroCluster over IP configuration.

This command should not be run when the MetroCluster configuration is under a heavy load. Bandwidth measurements will attempt to fully saturate network connections to the remote cluster and may disrupt the quality of service.

**Examples**

The following example shows the output for the calibration measure command in MetroCluster over IP configurations:

```
clusA::*> metrocluster configuration-settings calibration measure
Warning: This operation will attempt to fully saturate the network connection to
the remote cluster for measuring bandwidth. This may disrupt
performance and should not be run when MetroCluster is under
heavy
load. Do you want to continue? {y|n}: y
Measuring latency and bandwidth between node "A1" (10.140.113.214) and
node "B1" (10.140.113.26) over port "e0f".
Measuring latency and bandwidth between node "A1" (10.140.113.215) and
node "B1" (10.140.113.27) over port "e0g".
Measuring latency and bandwidth between node "A2" (10.140.113.216) and
node "B2" (10.140.113.25) over port "e0f".
Measuring latency and bandwidth between node "A2" (10.140.113.217) and
node "B2" (10.140.113.28) over port "e0g".
Measurements complete. Use the "metrocluster configuration-settings
calibration show" command to display the results.
```

**metrocluster configuration-settings calibration show**

Display the calibration measurements for local nodes in MetroCluster over IP configuration

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

**Description**

The `metrocluster configuration-settings calibration show` command shows the bandwidth and latency between local and remote nodes in a MetroCluster over IP configuration.
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.

[-calibration-id <integer>] - Calibration ID
This field specifies Calibration ID.

[-subnet <IP Address>] - IP Subnet
This field specifies subnet.

[-node-uuid <UUID>] - Node UUID
This field specifies UUID of the node.

[-home-port {<netport>|<ifgrp>}] - Home Port
This field specifies name of the port used to measure latency and bandwidth.

[-node {<nodename>|local}] - Node Name
This field specifies name of the node.

This field specifies collection time of sample.

[-source-address <IP Address>] - Source Network Address
This field specifies IP address of the port on the node.

[-destination-address <IP Address>] - Destination Network Address
This field specifies IP address of the port on the partner node.

[-latency <double>] - Latency in ms
This field specifies latency in ms.

[-bandwidth <double>] - Bandwidth in Mb/s
This field specifies bandwidth in Mb/s.

[-num-packets-retransmitted <integer>] - Number of Packets Retransmitted
This field specifies the number of TCP packets retransmitted during bandwidth measurement.

Examples

The following example shows the output for the calibration show command in MetroCluster over IP configurations:
metrocluster configuration-settings connection check

Check the network connections between partner nodes

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

**Description**

The `metrocluster configuration-settings connection check` command checks the settings of a MetroCluster over IP configuration.

This command is used for MetroCluster configurations that are connected through IP links.

**Examples**

The following example shows the output for the check command in MetroCluster over IP configurations:
clusA:*> metrocluster configuration-settings connection check
[Job 68] Job succeeded: Connect is successful.

Begin connection check.
Start checking the partner cluster.
   Check partner cluster: PASS.
Start checking the configuration settings.
   Check configuration settings: PASS.
Start pinging the network endpoints from cluster "clusA".
   Ping network endpoints: PASS.
Start pinging the network endpoints from cluster "clusB".
   Ping network endpoints: PASS.
Start checking the network MTU sizes from cluster "clusA".
   Check network MTU sizes: PASS.
Start checking the network MTU sizes from cluster "clusB".
   Check network MTU sizes: PASS.
Start checking the network subnets from cluster "clusA".
   Check network subnets: PASS.
Start checking the network subnets from cluster "clusB".
   Check network subnets: PASS.
Start checking the storage daemons on cluster "clusA".
   Check storage daemons: PASS.
Start checking the storage daemons on cluster "clusB".
   Check storage daemons: PASS.
End of connection check.

metrocluster configuration-settings connection connect

Configure the network connections between partner nodes

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

Description

The metrocluster configuration-settings connection connect command configures the connections that mirror NV logs and access remote storage between partner nodes in a MetroCluster setup.

This command is used for MetroCluster setups that are connected though IP links. MetroCluster setups that are connected through FC links will configure the FC connections automatically.

The metrocluster configuration-settings commands are run in the following order to set up MetroCluster:

- metrocluster configuration-settings dr-group create,
- metrocluster configuration-settings interface create,
- metrocluster configuration-settings connection connect.
Before this command is run

- The DR groups must have been configured. Run the `metrocluster configuration-settings dr-group show` command to verify that every node is partnered in a DR group.
- The network logical interfaces must have been configured on every node. Use the `metrocluster configuration-settings interface show` command to verify that every node has network logical interfaces configured to mirror NV logs and access remote storage.

After this command completes successfully, every node will:

- Have NV log mirroring configured and mirroring disabled. NV log mirroring will be enabled by the `metrocluster configure` command.
- Have access to remote storage. Use the `storage disk show -pool Pool1` command to view the remote disks that are hosted on DR partner nodes.

The DR groups and network logical interfaces that were configured by the `metrocluster configuration-settings` commands cannot be deleted after the connections have been configured. The `metrocluster configuration-settings connection disconnect` command must be run to remove the connections before the DR groups and network logical interfaces can be deleted.

**Parameters**

**Examples**

The following example shows configuration of connections in a MetroCluster over IP setup:

```
clusA::> metrocluster configuration-settings connection connect
[Job 269] Job succeeded: Connect is successful.
clusA::> metrocluster configuration-settings connection show
```

<table>
<thead>
<tr>
<th>DR Group</th>
<th>Source Cluster Node</th>
<th>Destination Network Address</th>
<th>Partner Network Address</th>
<th>Partner Type</th>
<th>Config State</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>clusA</td>
<td>A1</td>
<td>10.140.113.214</td>
<td>10.140.113.216</td>
<td>HA Partner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Home Port: e0f</td>
<td></td>
<td>completed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.214</td>
<td>10.140.113.218</td>
<td>DR Partner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Home Port: e0f</td>
<td></td>
<td>completed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.214</td>
<td>10.140.113.249</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Home Port: e0f</td>
<td></td>
<td>completed</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.215</td>
<td>10.140.113.217</td>
<td>HA Partner</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Home Port: e0g</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
completed
Home Port: e0g
10.140.113.215  10.140.113.248  DR Partner
completed
Home Port: e0g
10.140.113.215  10.140.113.25   DR Auxiliary
completed
    A2
Home Port: e0f
10.140.113.216  10.140.113.214  HA Partner
completed
Home Port: e0f
10.140.113.216  10.140.113.249  DR Partner
completed
Home Port: e0f
10.140.113.216  10.140.113.218  DR Auxiliary
completed
Home Port: e0g
10.140.113.217  10.140.113.215  HA Partner
completed
Home Port: e0g
10.140.113.217  10.140.113.25   DR Partner
completed
Home Port: e0g
10.140.113.217  10.140.113.248  DR Auxiliary
completed
    clusB B2
Home Port: e0f
10.140.113.249  10.140.113.218  HA Partner
completed
Home Port: e0f
10.140.113.249  10.140.113.216  DR Partner
completed
Home Port: e0f
10.140.113.249  10.140.113.214  DR Auxiliary
completed
Home Port: e0g
10.140.113.25   10.140.113.248  HA Partner
completed
Home Port: e0g
10.140.113.25   10.140.113.217  DR Partner
completed
Home Port: e0g
10.140.113.25   10.140.113.215  DR Auxiliary
completed
    B1
Home Port: e0f
10.140.113.218  10.140.113.249  HA Partner completed

Home Port: e0f
10.140.113.218  10.140.113.214  DR Partner completed

Home Port: e0f
10.140.113.218  10.140.113.216  DR Auxiliary completed

Home Port: e0g
10.140.113.248  10.140.113.25   HA Partner completed

Home Port: e0g
10.140.113.248  10.140.113.215  DR Partner completed

Home Port: e0g
10.140.113.248  10.140.113.217  DR Auxiliary completed

24 entries were displayed.

clusA::> metrocluster configuration-settings show-status
Cluster   Node   Configuration Settings Status
---------  ------  ------------------
clusA      A1     completed
clusA      A2     completed
clusB      B1     completed
clusB      B2     completed

4 entries were displayed.

Related Links

- metrocluster configuration-settings dr-group create
- metrocluster configuration-settings interface create
- metrocluster configuration-settings dr-group show
- metrocluster configuration-settings interface show
- metrocluster configure
- storage disk show
- metrocluster configuration-settings connection disconnect
**metrocluster configuration-settings connection disconnect**

Tear down the network connections between partner nodes

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

**Description**

The `metrocluster configuration-settings connection disconnect` command removes the connections between nodes in a DR group that are used to mirror NV logs and access remote storage.

This command cannot be run if a node in the DR group has remote disks assigned to the node. The assigned ownership of remote disks can be removed by running the `storage disk removeowner` command.

The `metrocluster configuration-settings` commands are run in the following order to remove MetroCluster over IP configuration:

- `metrocluster configuration-settings connection disconnect`
- `metrocluster configuration-settings interface delete`
- `metrocluster configuration-settings dr-group delete`

**Parameters**

- `-dr-group-id <integer>` - DR Group ID
  
  This parameter identifies the DR group to be disconnected.

**Examples**

The following example illustrates removal of connections in a four-node MetroCluster setup:

```bash
clusA::> metrocluster configuration-settings connection disconnect -dr-group-id 1
[Job 270] Job succeeded: Disconnect is successful.

clusA::> metrocluster configuration-settings show-status
Cluster Node Configuration Settings
Status
-------------------------- ------------------
clusA
A1 ready for connection connect
A2 ready for connection connect
clusB
B1 ready for connection connect
B2 ready for connection connect
4 entries were displayed.
clusA::> metrocluster configuration-settings connection show
DR Source Destination
```
<table>
<thead>
<tr>
<th>Group</th>
<th>Cluster</th>
<th>Node</th>
<th>Network Address</th>
<th>Network Address</th>
<th>Partner Type</th>
<th>Config</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>clusA</td>
<td>A1</td>
<td>10.140.113.214</td>
<td>10.140.113.216</td>
<td>HA Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.214</td>
<td>10.140.113.218</td>
<td>DR Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.214</td>
<td>10.140.113.249</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.215</td>
<td>10.140.113.217</td>
<td>HA Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.215</td>
<td>10.140.113.248</td>
<td>DR Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.215</td>
<td>10.140.113.25</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A2</td>
<td>10.140.113.216</td>
<td>10.140.113.214</td>
<td>HA Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.216</td>
<td>10.140.113.249</td>
<td>DR Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.216</td>
<td>10.140.113.218</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.217</td>
<td>10.140.113.215</td>
<td>HA Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.217</td>
<td>10.140.113.25</td>
<td>DR Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>10.140.113.217</td>
<td>10.140.113.248</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>clusB</td>
<td>B2</td>
<td>10.140.113.249</td>
<td>10.140.113.218</td>
<td>HA Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interfaces</td>
<td>IP ADDRESS</td>
<td>Role</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------</td>
<td>--------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.249</td>
<td>DR Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.216</td>
<td>DR Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.249</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.214</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.25</td>
<td>HA Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.248</td>
<td>HA Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.217</td>
<td>DR Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.215</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B1</td>
<td>10.140.113.218</td>
<td>DR Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.249</td>
<td>HA Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.214</td>
<td>DR Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.216</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.248</td>
<td>HA Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.217</td>
<td>DR Partner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.215</td>
<td>DR Auxiliary</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

24 entries were displayed.

**Related Links**

- [storage disk removeowner](#)
- [metrocluster configuration-settings interface delete](#)
- [metrocluster configuration-settings dr-group delete](#)

**metrocluster configuration-settings connection show**

Display the connections between partner nodes in a MetroCluster setup
Availability: This command is available to cluster administrators at the admin privilege level.

Description

The metrocluster configuration-settings connection show command displays the connection configuration information between the nodes in a MetroCluster setup.

Parameters

{ [-fields <fieldname>,…]  
  If you specify the -fields <fieldname>,… parameter, the command displays only the fields that you specify.  
  } 
  | [-instance ]  
  If this parameter is specified, the command displays detailed information about all entries.  

[-dr-group-id <integer>] - DR Group ID  
If this parameter is specified, the command displays information for the matching DR group.

[-cluster-uuid <UUID>] - Cluster UUID  
If this parameter is specified, the command displays information for the matching cluster specified by uuid.

[-cluster <Cluster name>] - Cluster Name  
If this parameter is specified, the command displays information for the matching cluster.

[-node-uuid <UUID>] - Node UUID  
If this parameter is specified, the command displays information for the matching node specified by uuid.

[-node <text>] - Node Name  
If this parameter is specified, the command displays information for the matching nodes.

[-home-port {<netport>|<ifgrp>}] - Home Port  
If this parameter is specified, the command displays information for the matching home-port.

[-relationship-type <Roles of MetroCluster Nodes>] - Relationship Role Type  
If this parameter is specified, the command displays information for the matching relationship-type.

[-source-address <IP Address>] - Source Network Address  
If this parameter is specified, the command displays information for the matching source address.

[-destination-address <IP Address>] - Destination Network Address  
If this parameter is specified, the command displays information for the matching destination address.

[-partner-cluster-uuid <UUID>] - Partner Cluster UUID  
If this parameter is specified, the command displays information for the matching partner-cluster-uuid.

[-partner-node-uuid <UUID>] - Partner Node UUID  
If this parameter is specified, the command displays information for the matching partner-node-uuid.
[-partner-node <text>] - Partner Node Name
If this parameter is specified, the command displays information for the matching partner-node.

[-partner-type <text>] - Partner Relationship Type
If this parameter is specified, the command displays information for the matching partner-type.

[-config-state <text>] - Configuration State
If this parameter is specified, the command displays information for the matching config-state.

[-config-error-info <text>] - Configuration Error Information
If this parameter is specified, the command displays information for the matching config-error-info.

Examples
The following example shows the output of `metrocluster configuration-settings connection connect` command:

```
Output of the command before the connections are established using the command:
clusA::> metrocluster configuration-settings connection show
DR  Source       Destination
Group Cluster Node  Network Address   Network Address  Partner Type  Config State
---- ----  ---------------   ---------------  ------------
1     clusA A1
      Home Port: e0f
      10.140.113.214  10.140.113.216  HA Partner disconnected
      Home Port: e0f
      10.140.113.214  10.140.113.218  DR Partner disconnected
Home Port: e0f
      10.140.113.214  10.140.113.249  DR Auxiliary disconnected
Home Port: e0g
      10.140.113.215  10.140.113.217  HA Partner disconnected
Home Port: e0g
      10.140.113.215  10.140.113.248  DR Partner disconnected
Home Port: e0g
      10.140.113.215  10.140.113.25  DR Auxiliary disconnected
A2
      Home Port: e0f
```
<table>
<thead>
<tr>
<th>Home Port: e0f</th>
<th>10.140.113.216</th>
<th>10.140.113.214</th>
<th>HA Partner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.216</td>
<td>10.140.113.249</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.216</td>
<td>10.140.113.218</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.217</td>
<td>10.140.113.215</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.217</td>
<td>10.140.113.25</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.217</td>
<td>10.140.113.248</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.249</td>
<td>10.140.113.218</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.249</td>
<td>10.140.113.216</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.249</td>
<td>10.140.113.214</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.25</td>
<td>10.140.113.248</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.25</td>
<td>10.140.113.217</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Home Port: e0g</td>
<td>10.140.113.25</td>
<td>10.140.113.215</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>B1</td>
<td>10.140.113.218</td>
<td>10.140.113.249</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.218</td>
<td>10.140.113.214</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Home Port: e0f</td>
<td>10.140.113.218</td>
<td>10.140.113.216</td>
<td>DR Auxiliary</td>
</tr>
</tbody>
</table>
disconnected
Home Port: e0g
10.140.113.248 10.140.113.215 DR Partner disconnected
Home Port: e0g
10.140.113.248 10.140.113.217 DR Auxiliary disconnected
24 entries were displayed.
Output of the command after the connections are established using the
xref:{relative_path}metrocluster-configuration-settings-connection-connect.html[metrocluster configuration-settings connection connect] command:
clusA::> metrocluster configuration-settings connection show
DR Source Destination
Group Cluster Node Network Address Network Address Partner Type Config State
----- ------- ------- --------------- --------------- ------------
[...]
1 clusA A1
Home Port: e0f
10.140.113.214 10.140.113.216 HA Partner completed
Home Port: e0f
10.140.113.214 10.140.113.218 DR Partner completed
Home Port: e0f
10.140.113.214 10.140.113.249 DR Auxiliary completed
Related Links

• metrocluster configuration-settings connection connect

metrocluster configuration-settings dr-group create

Create a DR group in a MetroCluster over IP setup

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

Description

The metrocluster configuration-settings dr-group create command partners the nodes that will comprise a DR group in a MetroCluster setup.

This command is used for MetroCluster setups that are connected though IP links. MetroCluster setups that are connected through FC links will configure DR groups automatically and do not require the metrocluster configuration-settings commands.

The metrocluster configuration-settings commands are run in the following order to set up MetroCluster:

• metrocluster configuration-settings dr-group create,
• metrocluster configuration-settings interface create,
• metrocluster configuration-settings connection connect.

Before running this command, cluster peering must be configured between the local and partner clusters. Run the cluster peer show command to verify that peering is available between the local and partner clusters.

This command configures a local node and a remote node as DR partner nodes. The command also configures the HA partner of the local node and the HA partner of the remote node as the other DR partner nodes in the DR group.

Parameters

- partner-cluster <Cluster name> - Partner Cluster Name
  Use this parameter to specify the name of the partner cluster.

- local-node {<nodename>|local} - Local Node Name
  Use this parameter to specify the name of a node in the local cluster.

- remote-node <text> - Remote Node Name
  Use this parameter to specify the name of a node in the partner cluster that is to be the DR partner of the
Examples

The following example shows the creation of the MetroCluster DR group:

```plaintext
clusA::> metrocluster configuration-settings dr-group create -partner -cluster clusB -local-node A1 -remote-node B1
[Job 268] Job succeeded: DR Group Create is successful.

clusA::> metrocluster configuration-settings dr-group show

+-----------------+-----------------+-----------------+
<table>
<thead>
<tr>
<th>DR Group ID</th>
<th>Cluster</th>
<th>Node</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>clusA</td>
<td>A1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A2</td>
</tr>
<tr>
<td></td>
<td>clusB</td>
<td>B2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>B1</td>
</tr>
</tbody>
</table>

4 entries were displayed.

clusA::> metrocluster configuration-settings show-status

+-----------------+-----------------+-----------------+
<table>
<thead>
<tr>
<th>Cluster</th>
<th>Node</th>
<th>Configuration Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>clusA</td>
<td>A1</td>
<td>ready for interface create</td>
</tr>
<tr>
<td></td>
<td>A2</td>
<td>ready for interface create</td>
</tr>
<tr>
<td>clusB</td>
<td>B1</td>
<td>ready for interface create</td>
</tr>
<tr>
<td></td>
<td>B2</td>
<td>ready for interface create</td>
</tr>
</tbody>
</table>

4 entries were displayed.
```

Related Links

- metrocluster configuration-settings interface create
- metrocluster configuration-settings connection connect
- cluster peer show

`metrocluster configuration-settings dr-group delete`

Delete a DR group in a MetroCluster over IP setup
Availability: This command is available to cluster administrators at the admin privilege level.

Description

The `metrocluster configuration-settings dr-group delete` command deletes a DR group and its node partnerships that were configured using the `metrocluster configuration-settings dr-group create` command.

This command cannot be run if the `metrocluster configuration-settings interface create` command has configured a network logical interface on a network port provisioned for MetroCluster. The `metrocluster configuration-settings interface delete` command must then be run to delete the network logical interfaces on every node in the DR group.

The `metrocluster configuration-settings` commands are run in the following order to remove the MetroCluster over IP configuration:

- `metrocluster configuration-settings connection disconnect`
- `metrocluster configuration-settings interface delete`
- `metrocluster configuration-settings dr-group delete`.

Parameters

- `-dr-group-id <integer>` - Dr group Id
  This parameter identifies the DR group to be deleted.

Examples

The following example shows the deletion of the MetroCluster DR group:

```bash
21
```
clusA::> metrocluster configuration-settings dr-group delete -dr-group-id 1

Warning: This command deletes the existing DR group relationship. Are you sure
    you want to proceed ? {y\|n}: y
[Job 279] Job succeeded: DR Group Delete is successful.

clusA::> metrocluster configuration-settings dr-group show
No DR groups exist.

clusA::> metrocluster configuration-settings show-status
Cluster Node               Configuration Settings
Status
---------------------------------
--------------------------
clusA                  
A1     ready for DR group create
A2     ready for DR group create
clusB                  
B1     ready for DR group create
B2     ready for DR group create
4 entries were displayed.

Related Links

- metrocluster configuration-settings dr-group create
- metrocluster configuration-settings interface create
- metrocluster configuration-settings interface delete
- metrocluster configuration-settings connection disconnect

metrocluster configuration-settings dr-group show

Display the DR groups in a MetroCluster over IP setup

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

Description

The metrocluster configuration-settings dr-group show command displays the DR groups and their nodes in the MetroCluster over IP setup.

Parameters
{-fields <fieldname>,…}  
If you specify the -fields <fieldname>,… parameter, the command displays only the fields that you specify.

{-instance }]  
If this parameter is specified, the command displays detailed information about all entries.

[-dr-group-id <integer>] - DR Group ID  
If this parameter is specified, the command displays information for the matching DR group.

[-cluster-uuid <UUID>] - Cluster UUID  
If this parameter is specified, the command displays information for the matching cluster uuid.

[-cluster <Cluster name>] - Cluster Name  
If this parameter is specified, the command displays information for the specified cluster.

[-node-uuid <UUID>] - Node UUID  
If this parameter is specified, the command displays information for the matching nodes uuid.

[-node <text>] - Node Name  
If this parameter is specified, the command displays information for the matching nodes.

[-dr-partner-node-uuid <UUID>] - DR Partner Node UUID  
If this parameter is specified, the command displays information for the matching DR partner node uuid.

[-dr-partner-node <text>] - DR Partner Node Name  
If this parameter is specified, the command displays information for the matching DR partner nodes.

Examples

The following example illustrates the display of DR group configuration in a four-node MetroCluster setup:

```
clusA::>  metrocluster configuration-settings dr-group show
 DR Group ID | Cluster         | Node | DR Partner Node
--------------|-----------------|------|---------------------
             |                 |      |                     
             | 1               | A1   | B1                  
             |                 | A2   | B2                  
             |                 | clusB | 
             |                 | B2   | A2                  
             |                 | B1   | A1                  
4 entries were displayed.
```
metrocluster configuration-settings interface create

Create a MetroCluster interface

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

**Description**

The metrocluster configuration-settings interface create command configures the network logical interfaces that will be used on a node in a MetroCluster setup to mirror NV logs and access remote storage.

This command is used for MetroCluster setups that are connected through IP links. MetroCluster setups that are connected through FC links do not require the user to provision network logical interfaces to mirror NV logs and access remote storage.

The metrocluster configuration-settings commands are run in the following order to set up MetroCluster:

- metrocluster configuration-settings dr-group create,
- metrocluster configuration-settings interface create,
- metrocluster configuration-settings connection connect.

Before running this command, the node’s DR group must be configured using the metrocluster configuration-settings dr-group create command. Run the metrocluster configuration-settings dr-group show command to verify that the node’s DR group has been configured.

**Parameters**

- `cluster-name <Cluster name>` - Cluster Name
  Use this parameter to specify the name of the local or partner cluster.

- `home-node <text>` - Home Node
  Use this parameter to specify the home node in the cluster which hosts the interface.

- `home-port {<netport>|<ifgrp>}` - Home Port
  Use this parameter to specify the home port provisioned for MetroCluster.

- `address <IP Address>` - Network Address
  Use this parameter to specify the network address to be assigned to the home port.

- `netmask <Contiguous IP Mask>` - Netmask
  Use this parameter to specify the network mask to be assigned to the interface.

- `[-gateway <IP Address>]` - Gateway
  Use this parameter to specify the gateway to be assigned for the routed network.

- `[-vlan-id <integer>]` - Virtual LAN ID
  Use this parameter to specify the VLAN id.
Examples

This example shows configuring logical interface on MetroCluster IP capable port:

clusA::> metrocluster configuration-settings interface create -cluster -name clusA -home-node A1 -home-port e0f -address 10.140.113.214 -netmask 255.255.192.0

[Job 281] Job succeeded: Interface Create is successful.

clusA::> metrocluster configuration-settings interface show

DR
Config
Group Cluster Node    Network Address    Netmask         Gateway
State
----- ------- ------ --------------- ---------------
1     clusA A1
      Home Port: e0f
      10.140.113.214  255.255.192.0   -
completed

Output after configuring all the interfaces:
clusA::> metrocluster configuration-settings interface show

DR
Config
Group Cluster Node    Network Address    Netmask         Gateway
State
----- ------- ------ --------------- ---------------
1     clusA A1
      Home Port: e0f
      10.140.113.214  255.255.192.0   -
completed
      Home Port: e0g
      10.140.113.215  255.255.192.0   -
completed
      A2
      Home Port: e0f
      10.140.113.216  255.255.192.0   -
completed
      Home Port: e0g
      10.140.113.217  255.255.192.0   -
completed
clusB B2
      Home Port: e0f
      10.140.113.249  255.255.192.0   -
completed
8 entries were displayed.

clusA::> metrocluster configuration-settings show-status
Cluster Node Configuration Settings
Status
-------------------------- ------------------
---------------------------------
clusA
A1 ready for connection connect
A2 ready for connection connect
clusB
B1 ready for connection connect
B2 ready for connection connect
4 entries were displayed.

clusA::> metrocluster configuration-settings connection show
DR Source Destination Group Cluster Node Network Address Network Address Partner Type Config
State
----- ------- --------------- --------------- --------------- --------------- ---------------

----------
1 clusA A1
Home Port: e0f
10.140.113.214 10.140.113.216 HA Partner disconnected
Home Port: e0f
10.140.113.214 10.140.113.218 DR Partner disconnected
Home Port: e0f
10.140.113.214 10.140.113.249 DR Auxiliary disconnected
Home Port: e0g
10.140.113.215 10.140.113.217 HA Partner disconnected
Home Port: e0g
10.140.113.215 10.140.113.248 DR Partner
<table>
<thead>
<tr>
<th>Disconnected</th>
<th>Home Port: e0g</th>
<th>10.140.113.215 10.140.113.25</th>
<th>DR Auxiliary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disconnected</td>
<td>A2</td>
<td>10.140.113.216 10.140.113.249</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0f</td>
<td>10.140.113.216 10.140.113.214</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0f</td>
<td>10.140.113.216 10.140.113.218</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0g</td>
<td>10.140.113.217 10.140.113.215</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0g</td>
<td>10.140.113.217 10.140.113.25</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0g</td>
<td>10.140.113.217 10.140.113.248</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Disconnected</td>
<td>clusB B2</td>
<td>10.140.113.249 10.140.113.218</td>
<td>HA Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0f</td>
<td>10.140.113.249 10.140.113.216</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0f</td>
<td>10.140.113.249 10.140.113.214</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0g</td>
<td>10.140.113.25 10.140.113.217</td>
<td>DR Partner</td>
</tr>
<tr>
<td>Disconnected</td>
<td>Home Port: e0g</td>
<td>10.140.113.25 10.140.113.215</td>
<td>DR Auxiliary</td>
</tr>
<tr>
<td>Disconnected</td>
<td>B1</td>
<td>10.140.113.218 10.140.113.249</td>
<td>HA Partner</td>
</tr>
</tbody>
</table>
Related Links

- metrocluster configuration-settings dr-group create
- metrocluster configuration-settings connection connect
- metrocluster configuration-settings dr-group show

**metrocluster configuration-settings interface delete**

Delete a MetroCluster interface

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

**Description**

The `metrocluster configuration-settings interface delete` command deletes the network logical interface that was configured on a network port provisioned for MetroCluster.

This command cannot be run if the `metrocluster configuration-settings connection connect` command has set up the connections between the nodes in a DR group. The `metrocluster configuration-settings connection disconnect` command must then be run to remove the connections.

The `metrocluster configuration-settings` commands are run in the following order to remove the MetroCluster over IP configuration:

- `metrocluster configuration-settings connection disconnect`,
- `metrocluster configuration-settings interface delete`,
- `metrocluster configuration-settings dr-group delete`.
Parameters

- `cluster-name <Cluster name>` - Cluster Name
  Use this parameter to specify the name of the local or partner cluster.

- `home-node <text>` - Home Node
  Use this parameter to specify the home node in the cluster which hosts the interface.

- `home-port {<netport>|<ifgrp>}` - Home Port
  Use this parameter to specify the home port provisioned for MetroCluster.

Examples

The following example shows the deletion of interface in a MetroCluster setup:

```bash
clusA::> metrocluster configuration-settings interface delete -cluster
- name clusA -home-node A1 -home-port e0f
[Job 271] Job succeeded: Interface Delete is successful.

clusA::> metrocluster configuration-settings interface show
DR
Config
Group Cluster Node    Network Address Netmask         Gateway
State
----- ------- ------- --------------- --------------- ---------------
------ ------- ------- --------------- --------------- ---------------
1     clusA A1
      Home Port: e0g
      10.140.113.215  255.255.192.0   -
completed
      A2
      Home Port: e0f
      10.140.113.216  255.255.192.0   -
completed
      Home Port: e0g
      10.140.113.217  255.255.192.0   -
completed
clusB B2
      Home Port: e0f
      10.140.113.249  255.255.192.0   -
completed
      Home Port: e0g
      10.140.113.25   255.255.192.0   -
completed
      B1
      Home Port: e0f
      10.140.113.218  255.255.192.0   -
```
completed

Home Port: e0g
10.140.113.248  255.255.192.0   -
completed
7 entries were displayed.

clusA::> metrocluster configuration-settings show-status
Cluster  Node  Configuration Settings
Status
-------------------------- ------------------
---------------------------------
clusA
    A1  ready for next interface
create
    A2  ready for connection connect
clusB
    B1  ready for connection connect
    B2  ready for connection connect
4 entries were displayed.
Output of the command after deleting all the interfaces:
clusA::> metrocluster configuration-settings interface show
No interfaces exist.

clusA::> metrocluster configuration-settings show-status
Cluster  Node  Configuration Settings
Status
-------------------------- ------------------
---------------------------------
clusA
    A1  ready for interface create
    A2  ready for interface create
clusB
    B1  ready for interface create
    B2  ready for interface create
4 entries were displayed.

Related Links

- metrocluster configuration-settings connection connect
- metrocluster configuration-settings connection disconnect
- metrocluster configuration-settings dr-group delete

**metrocluster configuration-settings interface show**

Display the network logical interfaces provisioned for MetroCluster
Availability: This command is available to cluster administrators at the admin privilege level.

Description

The metrocluster configuration-settings interface show command displays the network logical interfaces that were provisioned for MetroCluster.

Parameters

{{ [-fields <fieldname>,...]
    If you specify the -fields <fieldname>,... parameter, the command displays only the fields that you specify.
}

| [-instance ] |
    If this parameter is specified, the command displays detailed information about all entries.

[-dr-group-id <integer>] - DR Group ID
    If this parameter is specified, the command displays information for the matching DR group.

[-cluster-uuid <UUID>] - Cluster UUID
    If this parameter is specified, the command displays information for the matching cluster specified by uuid.

[-cluster <Cluster name>] - Cluster Name
    If this parameter is specified, the command displays information for the matching cluster.

[-node-uuid <UUID>] - Node UUID
    If this parameter is specified, the command displays information for the matching nodes uuid.

[-node <text>] - Node Name
    If this parameter is specified, the command displays information for the matching nodes.

[-home-port {<netport>|<ifgrp>}] - Home Port
    If this parameter is specified, all interfaces with home-port set to this value are displayed.

[-address <IP Address>] - Network Address
    If this parameter is specified, the command displays information for the matching network address.

[-netmask <Contiguous IP Mask>] - Netmask
    If this parameter is specified, all interfaces with netmask set to this value are displayed.

[-gateway <IP Address>] - Gateway
    If this parameter is specified, all interfaces with gateway set to this value are displayed.

[-config-state <text>] - Configuration State
    If this parameter is specified, all interfaces with this field set to the specified value are displayed.

[-config-error-info <text>] - Configuration Error Information
    If this parameter is specified, all interfaces with this field set to the specified value are displayed.
[-vlan-id <integer>] - Virtual LAN ID

If this parameter is specified, all interfaces with vlan-id set to this value are displayed.

Examples

The following example illustrates display of logical interfaces configured in a four-node MetroCluster setup:

```
clusA::> metrocluster configuration-settings interface show
DR
Config
Group Cluster Node    Network Address Netmask         Gateway
State
----- ------- ------- --------------- --------------- ---------------
---------
1     clusA A1
      Home Port: e0f
      10.140.113.214  255.255.192.0   -
    completed
      Home Port: e0g
      10.140.113.215  255.255.192.0   -
    completed
    A2
      Home Port: e0f
      10.140.113.216  255.255.192.0   -
    completed
      Home Port: e0g
      10.140.113.217  255.255.192.0   -
    completed
    clusB B2
      Home Port: e0f
      10.140.113.249  255.255.192.0   -
    completed
      Home Port: e0g
      10.140.113.25   255.255.192.0   -
    completed
    B1
      Home Port: e0f
      10.140.113.218  255.255.192.0   -
    completed
      Home Port: e0g
      10.140.113.248  255.255.192.0   -
    completed
8 entries were displayed.
```
metrocluster configuration-settings mediator add

Configure the network connections between the Mediator and MetroCluster nodes

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

**Description**

The `metrocluster configuration-settings mediator add` command configures the connection between the mediator and all the nodes in a MetroCluster configuration.

Before this command is run MetroCluster should be configured on all the clusters.

Mediator username and password are required to successfully add the mediator.

After this command completes successfully, every node will:

- Have a connection with the mediator.
- The mediator disks will be assigned to the nodes in the MetroCluster configuration.
- AUSO will be enabled.

**Parameters**

- `mediator-address <IP Address>` - Mediator IP Address
  
  Specifies the IP address of the mediator to which the nodes in the MetroCluster configuration will be connected.

**Examples**

The following example connects the nodes to the mediator in a MetroCluster configuration over IP setup:

```
clusA::> metrocluster configuration-settings mediator add -mediator-address 10.234.133.115
  
  Adding mediator and enabling Automatic Unplanned Switchover. It might take a few minutes to complete.
  
  Please enter the username for the mediator: mediatoradmin
  Please enter the password for the mediator:
  Confirm the mediator password:
  Creating mediator mailboxes...
  Setting up connections to mediator from all nodes in the clusters...
  Setting mediator mailbox from all nodes in the cluster...
  Enabling Automatic Unplanned Switchover for all nodes in the cluster...

  Successfully added mediator.
```
**metrocluster configuration-settings mediator remove**

Tear down connections between the Mediator and MetroCluster nodes

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

**Description**

The `metrocluster configuration-settings mediator remove` command removes the connection between the mediator and all the nodes in a MetroCluster configuration.

Mediator username and password are required to successfully remove the mediator.

**Parameters**

`[-dr-group-id <integer>]` - DR Group Id (privilege: advanced)

Specifies the Disaster Recovery Group Identifier for which the mediator connections need to be removed.

**Examples**

The following example removes the connections between the nodes and the mediator in a MetroCluster configuration over IP setup:

```
clusA::> metrocluster configuration-settings mediator remove
  Removing the mediator and disabling Automatic Unplanned Switchover.
  It may take a few minutes to complete.
  Please enter the username for the mediator: mediatoradmin
  Please enter the password for the mediator:
  Confirm the mediator password:
  Disabling Automatic Unplanned Switchover for all nodes in the cluster...
  Removing mediator mailboxes...
  Performing final cleanup...
  Successfully removed the mediator.
```

**metrocluster configuration-settings mediator show**

Display the nodes connected to the mediator

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

**Description**

The `metrocluster configuration-settings mediator show` command displays the connection status of the nodes with the Mediator in a MetroCluster configuration.
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.

{-mediator-address <IP Address>} - Mediator IP Address
Specifies the IP address of the mediator to which the nodes in the MetroCluster configuration are connected.

{-port <integer>} - Mediator port number
Specifies the port of the mediator to which the nodes in the MetroCluster configuration are connected.

{-node {<nodename>|local}} - Node Name
Specifies the nodes in the MetroCluster configuration which are connected to the mediator.

{-reachable {true|false}} - Connection Status of the Mediator
Specifies the connection status of the nodes with the mediator in the MetroCluster configuration.

{-configured {true|false}} - Mediator Configuration Status
Specifies the configuration status of the nodes with the mediator in the MetroCluster configuration.

Examples

The following example shows the mediator connection status in a MetroCluster configuration over IP setup:

```sh
cluster1_node_01::*> metrocluster configuration-settings mediator show

Mediator IP   Port   Node              Configuration
Connection     Status
--------------- ------- ----------------------- --------------
---------------
10.234.217.168 31784 cluster1_node_01    true       true
               cluster1_node_02    true       true
               cluster2_node_01    true       true
               cluster2_node_02    true       true
```