



# **metrocluster configuration-settings commands**

**ONTAP 9.3 commands**

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# metrocluster configuration-settings commands

## 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
Cluster           Node           Configuration Settings
Status

-----
-----
```

clusA	A1	not a MetroCluster setup
	A2	not a MetroCluster setup

2 entries were displayed.

MetroCluster setup uses FC links rather than IP

xref:{relative\_path}clusA::> metrocluster configuration-settings show-status

```

Cluster           Node           Configuration Settings
Status
```

```

-----
-----
```

clusA	A1	not applicable for FC and
SAS	A2	not applicable for FC and
SAS		

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

```

Cluster           Node           Configuration Settings
Status
```

```

-----
-----
```

clusA	A1	ready for DR group create
	A2	ready for DR group create

2 entries were displayed.

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

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.

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
      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 ` "metrocluster configuration-settings connection connect" ` command is run:
usA::> metrocluster configuration-settings show-status
Cluster           Node           Configuration Settings
Status

-----
-----
clusA
      A1           completed
      A2           completed
clusB
      B1           completed
      B2           completed
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
      A1           connection error
      A2           completed
clusB
      B1           connection error
      B2           completed
4 entries were displayed.

```

## 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 through 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.

## 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
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
          Home Port: e0g
          10.140.113.215 10.140.113.217 HA Partner
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
      A2           completed
clusB
      B1           completed
      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:

```
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
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
      10.140.113.216 10.140.113.214 HA Partner
disconnected
      Home Port: e0f
      10.140.113.216 10.140.113.249 DR Partner
disconnected
      Home Port: e0f
      10.140.113.216 10.140.113.218 DR Auxiliary
disconnected
      Home Port: e0g
      10.140.113.217 10.140.113.215 HA Partner

```

```
disconnected
    Home Port: e0g
        10.140.113.217 10.140.113.25      DR Partner
disconnected
    Home Port: e0g
        10.140.113.217 10.140.113.248      DR Auxiliary
disconnected
    clusB B2
        Home Port: e0f
            10.140.113.249 10.140.113.218      HA Partner
disconnected
    Home Port: e0f
        10.140.113.249 10.140.113.216      DR Partner
disconnected
    Home Port: e0f
        10.140.113.249 10.140.113.214      DR Auxiliary
disconnected
    Home Port: e0g
        10.140.113.25      10.140.113.248      HA Partner
disconnected
    Home Port: e0g
        10.140.113.25      10.140.113.217      DR Partner
disconnected
    Home Port: e0g
        10.140.113.25      10.140.113.215      DR Auxiliary
disconnected
    B1
    Home Port: e0f
        10.140.113.218 10.140.113.249      HA Partner
disconnected
    Home Port: e0f
        10.140.113.218 10.140.113.214      DR Partner
disconnected
    Home Port: e0f
        10.140.113.218 10.140.113.216      DR Auxiliary
disconnected
    Home Port: e0g
        10.140.113.248 10.140.113.25      HA Partner
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.
```

## 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
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
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	10.140.113.216	10.140.113.214	HA Partner

disconnected

Home Port: e0f	10.140.113.216	10.140.113.249	DR Partner
----------------	----------------	----------------	------------

disconnected

Home Port: e0f	10.140.113.216	10.140.113.218	DR Auxiliary
----------------	----------------	----------------	--------------

disconnected

Home Port: e0g	10.140.113.217	10.140.113.215	HA Partner
----------------	----------------	----------------	------------

disconnected

Home Port: e0g	10.140.113.217	10.140.113.25	DR Partner
----------------	----------------	---------------	------------

disconnected

Home Port: e0g	10.140.113.217	10.140.113.248	DR Auxiliary
----------------	----------------	----------------	--------------

disconnected

clusB B2			
Home Port: e0f	10.140.113.249	10.140.113.218	HA Partner

disconnected

Home Port: e0f	10.140.113.249	10.140.113.216	DR Partner
----------------	----------------	----------------	------------

disconnected

Home Port: e0f	10.140.113.249	10.140.113.214	DR Auxiliary
----------------	----------------	----------------	--------------

disconnected

Home Port: e0g	10.140.113.25	10.140.113.248	HA Partner
----------------	---------------	----------------	------------

disconnected

Home Port: e0g	10.140.113.25	10.140.113.217	DR Partner
----------------	---------------	----------------	------------

disconnected

Home Port: e0g			
----------------	--	--	--

```

10.140.113.25 10.140.113.215 DR Auxiliary
disconnected
      B1
      Home Port: e0f
      10.140.113.218 10.140.113.249 HA Partner
disconnected
      Home Port: e0f
      10.140.113.218 10.140.113.214 DR Partner
disconnected
      Home Port: e0f
      10.140.113.218 10.140.113.216 DR Auxiliary
disconnected
      Home Port: e0g
      10.140.113.248 10.140.113.25 HA Partner
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
      Home Port: e0g
      10.140.113.215 10.140.113.217 HA Partner
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.

```

## Related Links

- [metrocluster configuration-settings connection connect](#)

# metrocluster configuration-settings dr-group create

Create a DR group in a MetroCluster 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 through 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 specified local node.

## Examples

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

```

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
DR Group ID Cluster           Node           DR Partner Node
----- -----
1      clusA
                  A1           B1
                  A2           B2
      clusB
                  B2           A2
                  B1           A1

4 entries were displayed.
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 interface create](#)
- [metrocluster configuration-settings connection connect](#)
- [cluster peer show](#)

## metrocluster configuration-settings dr-group delete

Delete a DR group in a MetroCluster 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:

```
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 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.

## 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      clusA
                  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.

## 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
          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.

```

```

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
disconnected

        Home Port: e0g
        10.140.113.215  10.140.113.25    DR Auxiliary
disconnected

        A2
        Home Port: e0f
        10.140.113.216  10.140.113.214  HA Partner
disconnected

        Home Port: e0f
        10.140.113.216  10.140.113.249  DR Partner
disconnected

        Home Port: e0f
        10.140.113.216  10.140.113.248  DR Auxiliary
disconnected

        Home Port: e0g
        10.140.113.217  10.140.113.215  HA Partner
disconnected

        Home Port: e0g
        10.140.113.217  10.140.113.25    DR Partner
disconnected

        Home Port: e0g
        10.140.113.217  10.140.113.248  DR Auxiliary
disconnected

        clusB B2
        Home Port: e0f
        10.140.113.249  10.140.113.218  HA Partner
disconnected

        Home Port: e0f
        10.140.113.249  10.140.113.216  DR Partner
disconnected

        Home Port: e0f
        10.140.113.249  10.140.113.214  DR Auxiliary
disconnected

        Home Port: e0g
        10.140.113.25   10.140.113.248  HA Partner
```

```

disconnected
    Home Port: e0g
        10.140.113.25    10.140.113.217    DR Partner
disconnected
    Home Port: e0g
        10.140.113.25    10.140.113.215    DR Auxiliary
disconnected
    B1
    Home Port: e0f
        10.140.113.218    10.140.113.249    HA Partner
disconnected
    Home Port: e0f
        10.140.113.218    10.140.113.214    DR Partner
disconnected
    Home Port: e0f
        10.140.113.218    10.140.113.216    DR Auxiliary
disconnected
    Home Port: e0g
        10.140.113.248    10.140.113.25    HA Partner
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.

```

## 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:

```
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.

## 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.

```

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