

metrocluster configuration-settings 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 Configuration Settings Node Cluster Status _____ ____ _____ clusA not a MetroCluster setup A1 A2 not a MetroCluster setup 2 entries were displayed. MetroCluster setup uses FC links rather than IP xref:{relative path}clusA::> metrocluster configuration-settings showstatus Cluster Node Configuration Settings Status _____ ____ _____ clusA not applicable for FC and A1 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 _____ ____ _____ ready for DR group create clusA A1 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 ready for interface create A2 clusB В1 ready for interface create В2 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			
	В2	ready for connection connect			
4 entries were displayed.					
Output of the command afte	er ` "metrocluster c	configuration-settings			
connection connect" ` comm	nand is run:				
usA::> metrocluster config	guration-settings sh	low-status			
Cluster	Node	Configuration Settings			
Status					
clusA					
	A1	completed			
	A2	completed			
clusB					
	B1	completed			
	В2	completed			
4 entries were displayed.					
Output of the command afte	er ` "metrocluster c	configuration-settings			
connection connect"` command is run and there are connection errors:					
clusA::> metrocluster conf	figuration-settings	show-status			
Cluster	Node	Configuration Settings			
Status					
clusA	A1	connection error			
	A2	completed			
clusB	B1	connection error			
	В2	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 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 configurationsettings 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:
```

1 clusA A1 Home Port: e0f 10.140.113.214 10.140.113.216 HA Partner completed Home Port: eOf 10.140.113.214 10.140.113.218 DR Partner completed Home Port: eOf 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: eOf 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: eOf 10.140.113.249 10.140.113.218 HA Partner completed Home Port: eOf 10.140.113.249 10.140.113.216 DR Partner completed Home Port: eOf

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 В1 Home Port: eOf 10.140.113.218 10.140.113.249 HA Partner completed Home Port: eOf 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: e0q 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 completed A1 completed A2 clusB completed В1 В2 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 В1 ready for connection connect В2 ready for connection connect 4 entries were displayed. clusA::> metrocluster configuration-settings connection show Destination Source DR Group Cluster Node Network Address Network Address Partner Type Config State _____ _____ _____ 1 clusA A1 Home Port: eOf 10.140.113.214 10.140.113.216 HA Partner disconnected Home Port: eOf 10.140.113.214 10.140.113.218 DR Partner disconnected Home Port: eOf 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: eOf 10.140.113.216 10.140.113.214 HA Partner disconnected Home Port: eOf 10.140.113.216 10.140.113.249 DR Partner disconnected Home Port: eOf 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: eOf 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 В1 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
_____ _____
_____
     clusA A1
1
               Home Port: eOf
                    10.140.113.214 10.140.113.216 HA Partner
disconnected
               Home Port: eOf
                    10.140.113.214 10.140.113.218 DR Partner
disconnected
               Home Port: eOf
                    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: eOf 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: eOf 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 В1 Home Port: eOf 10.140.113.218 10.140.113.249 HA Partner disconnected Home Port: eOf 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-connectionconnect.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 Al Home Port: eOf 10.140.113.214 10.140.113.216 HA Partner completed Home Port: eOf 10.140.113.214 10.140.113.218 DR Partner completed Home Port: eOf 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: eOf 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: eOf 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: eOf 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: eOf 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: eOf
                     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 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 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 Α1 В1 A2 B2 clusB В2 A2 В1 Α1 4 entries were displayed. clusA::> metrocluster configuration-settings show-status Node Configuration Settings Cluster Status _____ ____ _____ clusA Α1 ready for interface create A2 ready for interface create clusB ready for interface create В1 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 ld

This parameter indentifies 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
                         Node
                                          Configuration Settings
Cluster
Status
_____ ____
_____
clusA
                                           ready for DR group create
                         Α1
                                           ready for DR group create
                         A2
clusB
                                          ready for DR group create
                         В1
                         В2
                                          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 $\tt metrocluster$ 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				
	Al	B1		
	A2	В2		
clusB				
	B2	A2		
	B1	Al		
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 though 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 configurationsettings 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 eOf -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
_____ _____
_____
   clusA Al
1
             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 Al
             Home Port: eOf
                  10.140.113.214 255.255.192.0 -
completed
             Home Port: e0g
                  10.140.113.215 255.255.192.0
completed
```

A2 Home Port: eOf 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: eOf 10.140.113.249 255.255.192.0 completed Home Port: e0g 10.140.113.25 255.255.192.0 completed В1 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 ready for connection connect В1 В2 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: eOf 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: eOf 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: e0q 10.140.113.25 10.140.113.248 HA Partner

disconnected Home Port: e0q 10.140.113.25 10.140.113.217 DR Partner disconnected Home Port: e0q 10.140.113.25 10.140.113.215 DR Auxiliary disconnected В1 Home Port: e0f 10.140.113.218 10.140.113.249 HA Partner disconnected Home Port: eOf 10.140.113.218 10.140.113.214 DR Partner disconnected Home Port: eOf 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: e0q 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
_____ _____
_____
  clusA Al
1
           Home Port: e0g
                  10.140.113.215 255.255.192.0 -
completed
                   Α2
              Home Port: eOf
                   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 В1 Home Port: eOf 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 ready for next interface A1 create A2 ready for connection connect clusB ready for connection connect В1 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 В1 ready for interface create В2 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
                   В1
              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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