

Configure the ONTAP Mediator service for unplanned automatic switchover

ONTAP MetroCluster

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Configure the ONTAP Mediator service for unplanned automatic switchover

Prepare to install the ONTAP Mediator service

Your environment must meet the following requirements.

- If you plan on updating your Linux version, do so before you install the most current ONTAP Mediator service.
- The ONTAP Mediator service and MetroCluster Tiebreaker software should not both be used with the same MetroCluster configuration.



- The ONTAP Mediator must be installed on a LINUX host at a separate location from the MetroCluster sites.
- The ONTAP Mediator service can support up to five MetroCluster configurations simultaneously.
- Automatic unplanned switchover is supported in ONTAP 9.7 and later.

Network requirements for using Mediator in a MetroCluster configuration

To install the ONTAP Mediator service in a MetroCluster configuration, you must ensure that the configuration meets several network requirements.

Latency

Round trip latency must be no more than 75 ms.

Jitter must be no more than 25 ms.

• MTU

The MTU size must be at least 1400.

Packet loss

Packet loss must be less than or equal to 0.01%.

Bandwidth

The link between the Mediator service and the MetroCluster configuration must have at least 20 Gbps of bandwidth.

Firewall requirements for ONTAP Mediator

ONTAP Mediator uses a number of ports to communicate with specific services.

If you are using a third-party firewall:

- · HTTPS access must be enabled.
- It must be configured to allow access on ports 31784 and 3260.

When using the default Red Hat or CentOS firewall, the firewall is automatically configured during Mediator installation.

The following table lists the ports that you must allow in your firewall:

Port/services	Source	Destination	Purpose
31784/tcp	ONTAP cluster management interfaces	ONTAP Mediator web server	REST API (HTTPS)
3260/tcp	ONTAP cluster	ONTAP Mediator iSCSI targets	iSCSI data connection for mailboxes

Guidelines for upgrading the ONTAP Mediator in a MetroCluster configuration

If you are upgrading the ONTAP Mediator you must meet the Linux version requirements and follow guidelines for the upgrade.

- The Mediator service can be upgraded from version from an immediately prior version to the current version.
- All Mediator versions are supported on MetroCluster IP configurations running ONTAP 9.7 or later.

Install or upgrade the ONTAP Mediator service

After the upgrade

After the Mediator and operating system upgrade is complete, you should issue the storage iscsinitiator show command to confirm that the Mediator connections are up.

Configure the ONTAP Mediator service from a MetroCluster IP configuration

The ONTAP Mediator service must be configured on the ONTAP node for use in a MetroCluster IP configuration.

Before you begin

 The ONTAP Mediator must have been successfully installed on a network location that can be reached by both MetroCluster sites.

Install or upgrade the ONTAP Mediator service

- You must have the IP address of the host running the ONTAP Mediator service.
- You must have the username and password for the ONTAP Mediator service.
- All nodes of the MetroCluster IP configuration must be online.

About this task

- This task enables automatic unplanned switchover by default.
- This task can be performed on the ONTAP interface of any node in the MetroCluster IP configuration.

 A single installation of the ONTAP Mediator service can be configured with up to five MetroCluster IP configurations.

Steps

1. Add the ONTAP Mediator service to ONTAP:

 $\label{lem:metrocluster} \mbox{metrocluster configuration-settings mediator add -mediator-address} \ ip-address-of-mediator-host$



You will be prompted for the username and password for the Mediator admin user account.

2. Verify that the automatic switchover feature in enabled:

metrocluster show

- 3. Verify that the Mediator is now running.
 - a. Show the Mediator virtual disks:

storage disk show -container-type mediator

cluster_A::> storage	disk sh	lom -co	ontai	lner-typ	e mediator	
	Usabl	Le		Disk	Container	
Container						
Disk	Size	Shelf	Вау	Type	Type	Name
Owner						
NET-1.5	-	_	-	VMDISK	mediator	-
node_A_2						
NET-1.6	-	-	-	VMDISK	mediator	-
node_B_1						
NET-1.7	-	-	-	VMDISK	mediator	-
node_B_2						
NET-1.8	-	-	-	VMDISK	mediator	-
node_A_1						

b. Set the privilege mode to advanced:

set advanced

```
cluster_A::> set advanced
```

c. Display the initiators labelled as mediator:

storage iscsi-initiator show -label mediator

```
cluster A::*> storage iscsi-initiator show -label mediator
   (storage iscsi-initiator show)
Status
 Node Type Label Target Portal Target Name
Admin/Op
node A 1
     mailbox
          mediator 1.1.1.1 ign.2012-
05.local:mailbox.target.6616cd3f-9ef1-11e9-aada-
00a098ccf5d8:a05e1ffb-9ef1-11e9-8f68- 00a098cbca9e:1 up/up
 node A 2
     mailbox
          mediator 1.1.1.1
                                 ign.2012-
05.local:mailbox.target.6616cd3f-9ef1-11e9-aada-
00a098ccf5d8:a05e1ffb-9ef1-11e9-8f68-00a098cbca9e:1 up/up
```

Connecting a MetroCluster configuration to a different ONTAP Mediator instance

If you want to connect the MetroCluster nodes to a different ONTAP Mediator instance, you must unconfigure and then reconfigure the Mediator connection in the ONTAP software.

Before you begin

You need the username, password, and IP address of the new ONTAP Mediator instance.

About this task

These commands can be issued from any node in the MetroCluster configuration.

Steps

1. Remove the current ONTAP Mediator from the MetroCluster configuration:

```
metrocluster configuration-settings mediator remove
```

2. Establish the new ONTAP Mediator connection to the MetroCluster configuration:

 $\begin{tabular}{ll} metrocluster configuration-settings mediator add -mediator-address $ip-address-of-mediator-host \end{tabular}$

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