



# **Upgrading firmware on MetroCluster IP switches**

## **ONTAP MetroCluster**

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# Upgrading firmware on MetroCluster IP switches

You might need to upgrade the firmware on a MetroCluster IP switch.

When you install the switch software on each of the switch, you must first check the health of the configuration.

You must repeat this task on each of the switch in succession to ensure that all MetroCluster components are healthy.

## Steps

1. Check the health of the configuration.

a. Check that the MetroCluster is configured and in normal mode on each cluster: **metrocluster show**

```
cluster_A::> metrocluster show
Cluster                               Entry Name                State
-----
Local: cluster_A                      Configuration state        configured
                                      Mode                        normal
                                      AUSO Failure Domain       auso-on-cluster-
disaster
Remote: cluster_B                     Configuration state        configured
                                      Mode                        normal
                                      AUSO Failure Domain       auso-on-cluster-
disaster
```

b. Check that mirroring is enabled on each node: **metrocluster node show**

```
cluster_A::> metrocluster node show
DR                                     Configuration  DR
Group Cluster Node                    State          Mirroring Mode
-----
1      cluster_A
          node_A_1      configured     enabled   normal
          cluster_B
          node_B_1      configured     enabled   normal
2 entries were displayed.
```

c. Check that the MetroCluster components are healthy: **metrocluster check run**

```
cluster_A::> metrocluster check run
```

```
Last Checked On: 10/1/2014 16:03:37
```

Component	Result
nodes	ok
lifs	ok
config-replication	ok
aggregates	ok

4 entries were displayed.

Command completed. Use the "metrocluster check show -instance" command or sub-commands in "metrocluster check" directory for detailed results.

To check if the nodes are ready to do a switchover or switchback operation, run "metrocluster switchover -simulate" or "metrocluster switchback -simulate", respectively.

d. Check that there are no health alerts: **system health alert show**

2. Install the software on the first switch.

Follow the steps for installing switch software in the relevant section in the *MetroCluster IP Installation and Configuration Guide* depending on whether the switch type is Cisco or Broadcom:

[MetroCluster IP Installation and Configuration Guide](#)

3. Repeat the previous step for each of the switches.

4. Repeat step 1 to check the health of the configuration.

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