



Power off an entire MetroCluster configuration

ONTAP MetroCluster

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Power off an entire MetroCluster configuration

Powering off an entire MetroCluster IP configuration

You must power off the entire MetroCluster IP configuration and all of the equipment before maintenance or relocation can begin.



Beginning with ONTAP 9.8, the **storage switch** command is replaced with **system switch**. The following steps show the **storage switch** command, but if you are running ONTAP 9.8 or later, the **system switch** command is preferred.

1. Verify the MetroCluster configuration from both sites in the MetroCluster configuration.

a. Confirm that the MetroCluster configuration and operational mode are normal.

```
metrocluster show
```

b. Run the following command:

```
metrocluster interconnect show
```

c. Confirm connectivity to the disks by entering the following command on any one of the MetroCluster nodes:

```
run local sysconfig -v
```

d. Run the following command:

```
storage port show
```

e. Run the following command:

```
storage switch show
```

f. Run the following command:

```
network interface show
```

g. Run the following command:

```
network port show
```

h. Run the following command:

```
network device-discovery show
```

i. Perform a MetroCluster check:

```
metrocluster check run
```

j. Display the results of the MetroCluster check:

```
metrocluster check show
```

k. Run the following command:

```
metrocluster configuration-settings interface show
```

2. If necessary, disable AUSO by modifying the AUSO Failure Domain to

```
auso-disabled
```

```
cluster_A_site_A::*>metrocluster modify -auto-switchover-failure-domain  
auso-disabled
```



In a MetroCluster IP configuration, the AUSO Failure Domain is already set to 'auso-disabled' unless the configuration is configured with ONTAP Mediator.

3. Verify the change using the command

metrocluster operation show

```
cluster_A_site_A::*> metrocluster operation show
  Operation: modify
    State: successful
  Start Time: 4/25/2020 20:20:36
  End Time: 4/25/2020 20:20:36
  Errors: -
```

4. Halt the nodes:

halt

```
system node halt -node node1_SiteA -inhibit-takeover true -ignore-quorum
-warnings true
```

5. Power off the following equipment at the site:

- Storage controllers
- MetroCluster IP switches
- Storage shelves

6. Wait for thirty minutes and then power on all storage shelves, MetroCluster IP switches, and storage controllers.

7. After the controllers are powered on, verify the MetroCluster configuration from both sites.

To verify the configuration, repeat step 1.

8. Perform power cycle checks.

- a. Verify that all sync-source SVMs are online:

vserver show

- b. Start any sync-source SVMs that are not online:

vserver start

Powering off an entire MetroCluster FC configuration

You must power off the entire MetroCluster FC configuration and all of the equipment before site maintenance or relocation can begin.

About this task

You must perform the steps in this procedure from both sites, at the same time.



Beginning with ONTAP 9.8, the **storage switch** command is replaced with **system switch**. The following steps show the **storage switch** command, but if you are running ONTAP 9.8 or later, the **system switch** command is preferred.

Steps

1. Verify the MetroCluster configuration from both sites in the MetroCluster configuration.
 - a. Confirm the MetroCluster configuration and that the operational mode is normal.
metrocluster show
 - b. Confirm connectivity to the disks by entering the following command on any one of the MetroCluster nodes:
run local sysconfig -v
 - c. Run the following command:
storage bridge show
 - d. Run the following command:
storage port show
 - e. Run the following command:
storage switch show
 - f. Run the following command:
network port show
 - g. Perform a MetroCluster check:
metrocluster check run
 - h. Display the results of the MetroCluster check:
metrocluster check show
2. Disable AUSO by modifying the AUSO Failure Domain to

auso-disabled

```
cluster_A_site_A::*>metrocluster modify -auto-switchover-failure-domain
auso-disabled
```

3. Verify the change using the command

metrocluster operation show

```
cluster_A_site_A::*> metrocluster operation show
Operation: modify
State: successful
Start Time: 4/25/2020 20:20:36
End Time: 4/25/2020 20:20:36
Errors: -
```

4. Halt the nodes by using the following command: **halt**

- For a four-node or eight-node MetroCluster configuration, use the **inhibit-takeover** and **skip-lif-migration-before-shutdown** parameters:

```
system node halt -node node1_SiteA -inhibit-takeover true -ignore
-quorum-warnings true -skip-lif-migration-before-shutdown true
```

- For a two-node MetroCluster configuration, use the command:

```
system node halt -node node1_SiteA -ignore-quorum-warnings true
```

5. Power off the following equipment at the site:

- Storage controllers
- MetroCluster FC switches (if in use and the configuration is not a two-node stretch configuration)
- ATTO FibreBridges
- Storage shelves

6. Wait for thirty minutes and then power on the following equipment at the site:

- Storage shelves
- ATTO FibreBridges
- MetroCluster FC switches
- Storage controllers

7. After the controllers are powered on, verify the MetroCluster configuration from both sites.

To verify the configuration, repeat step 1.

8. Perform power cycle checks.

- a. Verify that all sync-source SVMs are online:

```
vserver show
```

- b. Start any sync-source SVMs that are not online:

```
vserver start
```

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