

Verify cluster and storage health after downgrade or revert

ONTAP 9

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Verify cluster and storage health after downgrade or revert

After you downgrade or revert a cluster, you should verify that the nodes are healthy and eligible to participate in the cluster, and that the cluster is in quorum. You should also verify the status of your disks, aggregates, and volumes.

Verify cluster health

1. Verify that the nodes in the cluster are online and are eligible to participate in the cluster: cluster show

If any node is unhealthy or ineligible, check EMS logs for errors and take corrective action.

- 2. Set the privilege level to advanced: set -privilege advanced
- 3. Enter y to continue.
- 4. Verify the configuration details for each RDB process.
 - The relational database epoch and database epochs should match for each node.
 - The per-ring quorum master should be the same for all nodes.

Note that each ring might have a different quorum master.

To display this RDB process	Enter this command
Management application	cluster ring show -unitname mgmt
Volume location database	cluster ring show -unitname vldb
Virtual-Interface manager	cluster ring show -unitname vifmgr
SAN management daemon	cluster ring show -unitname bcomd

This example shows the volume location database process:

Iode	UnitNar	ne Epoch	DB Epo	ch DB Trnx	s Master	Online
node0	vldb	154	154	14847	node0	master
node1	vldb	154	154	14847	node0	secondary
node2	vldb	154	154	14847	node0	secondary
node3	vldb	154	154	14847	node0	secondary

1. If you are operating in a SAN environment, verify that each node is in a SAN quorum: event log show -messagename scsiblade.*

The most recent scsiblade event message for each node should indicate that the scsi-blade is in quorum.

2. Return to the admin privilege level: set -privilege admin

Related information

System administration

Verify storage health

After you revert or downgrade a cluster, you should verify the status of your disks, aggregates, and volumes.

1. Verify disk status:

To check for	Do this
Broken disks	a. Display any broken disks: storage disk show -state broken
	b. Remove or replace any broken disks.

To check for	Do this
Disks undergoing maintenance or reconstruction	a. Display any disks in maintenance, pending, or reconstructing states: storage disk show -state maintenance pending reconstructing
	b. Wait for the maintenance or reconstruction operation to finish before proceeding.

2. Verify that all aggregates are online by displaying the state of physical and logical storage, including storage aggregates: storage aggregate show -state !online

This command displays the aggregates that are *not* online. All aggregates must be online before and after performing a major upgrade or reversion.

```
cluster1::> storage aggregate show -state !online
There are no entries matching your query.
```

3. Verify that all volumes are online by displaying any volumes that are *not* online: volume show -state !online

All volumes must be online before and after performing a major upgrade or reversion.

```
cluster1::> volume show -state !online
There are no entries matching your query.
```

4. Verify that there are no inconsistent volumes: volume show -is-inconsistent true

If any inconsistent volumes are returned, you must contact NetApp Support before you precede with the upgrade.

Related information

Disk and aggregate management

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