



# Verify storage health

ONTAP 9

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# Verify storage health

Before and after you upgrade 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: <code>storage disk show -state broken</code> b. Remove or replace any broken disks.
Disks undergoing maintenance or reconstruction	a. Display any disks in maintenance, pending, or reconstructing states: <code>`storage disk show -state maintenance</code>
pending	<code>reconstructing` .. Wait for the maintenance or reconstruction operation to finish before proceeding.</code> +

## 2. Verify that all aggregates are online by displaying the state: `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

[Logical storage management](#)

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