



Testing takeover and giveback

ONTAP 9

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After you configure all aspects of your HA pair, you need to verify that it is operating as expected in maintaining uninterrupted access to both nodes' storage during takeover and giveback operations. Throughout the takeover process, the local (or takeover) node should continue serving the data normally provided by the partner node. During giveback, control and delivery of the partner's storage should return to the partner node.

Steps

1. Check the cabling on the HA interconnect cables to make sure that they are secure.
2. Verify that you can create and retrieve files on both nodes for each licensed protocol.
3. Enter the following command: `storage failover takeover -ofnode partnernode`

See the man page for command details.

4. Enter either of the following commands to confirm that takeover occurred:

```
storage failover show-takeover
storage failover show
```

If you have the `storage failover` command's `-auto-giveback` option enabled:

Node	Partner	Takeover Possible	State Description
node 1	node 2	-	Waiting for giveback
node 2	node 1	false	In takeover, Auto giveback will be initiated in number of seconds

If you have the `storage failover` command's `-auto-giveback` option disabled:

Node	Partner	Takeover Possible	State Description
node 1	node 2	-	Waiting for giveback
node 2	node 1	false	In takeover

5. Enter the following command to display all the disks that belong to the partner node (Node2) that the takeover node (Node1) can detect:

```
storage disk show -home node2 -ownership
```

The following command displays all disks belonging to Node2 that Node1 can detect:

```
cluster::> storage disk show -home node2 -ownership
```

Disk	Aggregate	Home	Owner	DR Home	Home ID	Owner ID	DR Home ID	Reserve r	Pool
1.0.2	-	node2	node2	-	4078312453	4078312453	-	4078312452	Pool0

Disk	Aggregate	Home	Owner	DR Home	Home ID	Owner ID	DR Home ID	Reserve r	Pool
1.0.3	-	node2	node2	-	4078312453	4078312453	-	4078312452	Pool0

6. Enter the following command to confirm that the takeover node (Node1) controls the partner node's (Node2) aggregates:

```
aggr show -fields home-id,home-name,is-home
```

aggregate	home-id	home-name	is-home
aggr0_1	2014942045	node1	true
aggr0_2	4078312453	node2	false
aggr1_1	2014942045	node1	true
aggr1_2	4078312453	node2	false

During takeover, the is-home value of the partner node's aggregates is false.

7. Give back the partner node's data service after it displays the Waiting for giveback message by entering the following command:

```
storage failover giveback -ofnode partnernode
```

8. Enter either of the following commands to observe the progress of the giveback operation:

```
storage failover show-giveback storage failover show
```

9. Proceed depending on whether you saw the message that giveback was completed successfully:

If takeover and giveback...	Then...
Is completed successfully	Repeat Step 2 through Step 8 on the partner node.
Fails	Correct the takeover or giveback failure and then repeat this procedure.

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