



## **Stage 4. Relocate resources and retire node2**

Upgrade controllers

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# Stage 4. Relocate resources and retire node2

## Stage 4 overview

During Stage 4, you relocate non-root aggregates and NAS data LIFs from node2 to the upgraded node1 and retire node2.

### Steps

1. [Relocate non-root aggregates and NAS data LIFs from node2 to node1](#)
2. [Retire node2](#)

## Relocate non-root aggregates and NAS data LIFs from node2 to node1

Before you can replace node2 with the replacement system module, you must first relocate the non-root aggregates that are owned by node2 to node1.

### Before you begin

After the post-checks from the previous stage complete, the resource release for node2 starts automatically. The non-root aggregates and non-SAN data LIFs are migrated from node2 to the new node1.

### About this task

After the aggregates and LIFs are migrated, the operation is paused for verification purposes. At this stage, you must verify that all the non-root aggregates and non-SAN data LIFs are migrated to the new node1.

The home owner for the aggregates and LIFs are not modified; only the current owner is modified.

### Steps

1. Verify that all the non-root aggregates are online and their state on node1:

```
storage aggregate show -node node1 -state online -root false
```

The following example shows that the non-root aggregates on node1 are online:

```
cluster::> storage aggregate show -node node1 state online -root false

Aggregate      Size           Available    Used%    State    #Vols    Nodes
RAID           Status
-----
-----
aggr_1         744.9GB        744.8GB     0%       online   5        node1
raid_dp        normal
aggr_2         825.0GB        825.0GB     0%       online   1        node1
raid_dp        normal
2 entries were displayed.
```

If the aggregates have gone offline or become foreign on node1, bring them online by using the following command on the new node1, once for each aggregate:

```
storage aggregate online -aggregate aggr_name
```

2. Verify that all the volumes are online on node1 by using the following command on node1 and examining its output:

```
volume show -node node1 -state offline
```

If any volumes are offline on node1, bring them online by using the following command on node1, once for each volume:

```
volume online -vserver vserver-name -volume volume-name
```

The *vserver-name* to use with this command is found in the output of the previous `volume show` command.

3. Verify that the LIFs have been moved to the correct ports and have a status of up. If any LIFs are down, set the administrative status of the LIFs to up by entering the following command, once for each LIF:

```
network interface modify -vserver vserver_name -lif LIF_name -home-node  
nodename - status-admin up
```

4. Verify that there are no data LIFs remaining on node2 by using the following command and examining the output:

```
network interface show -curr-node node2 -role data
```

## Retire node2

To retire node2, you first shut node2 down correctly and remove it from the rack or chassis.

### Steps

1. Resume the operation:

```
system controller replace resume
```

The node halts automatically.

### After you finish

You can decommission node2 after the upgrade is completed. See [Decommission the old system](#).

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