# Stage 4. Relocate resources from node2 and retire node2

## AFF and FAS Controller Upgrade

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# Stage 4. Relocate resources from node2 and retire node2

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

Before you can replace node2 with the AFF A900 controller module and NVS, 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 need to 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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