



# **Shut down the controllers - AFF C190**

## **ONTAP Systems**

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# Shut down the controllers - AFF C190

You must shut down the node or nodes in the chassis prior to moving them to the new chassis.

## About this task

- If you have a cluster with more than two nodes, it must be in quorum. If the cluster is not in quorum or a healthy node shows `false` for eligibility and health, you must correct the issue before shutting down the impaired node.

### [ONTAP 9 System Administration Reference](#)

- If AutoSupport is enabled, suppress automatic case creation by invoking an AutoSupport message:

```
system node autosupport invoke -node * -type all -message  
MAINT=number_of_hours_downh
```

The following AutoSupport message suppresses automatic case creation for two hours: `cluster1:*>`

```
system node autosupport invoke -node * -type all -message MAINT=2h
```

## Steps

1. If your system has two controller modules, disable the HA pair.

If your system is running clustered ONTAP with...	Then...
Two nodes in the cluster	<code>cluster ha modify -configured false storage failover modify -node node0 -enabled false</code>
More than two nodes in the cluster	<code>storage failover modify -node node0 -enabled false</code>

2. Halt the node, pressing `y` when you are prompted to confirm the halt: `system node halt -node  
node_name`

The confirmation message looks like the following:

```
Warning: Rebooting or halting node  
"node_name" in an HA-enabled cluster may result in client disruption or  
data access  
failure. To ensure continuity of service, use the "storage  
failover takeover" command. Are you sure you want to halt node  
"node_name"? {y|n}:
```



You must perform a clean system shutdown before replacing the chassis to avoid losing unwritten data in the nonvolatile memory (NVMEM). If the NVMEM LED is flashing, there is content in the NVMEM that has not been saved to disk. You need to reboot the node and start from the beginning of this procedure. If repeated attempts to cleanly shut down the node fail, be aware that you might lose any data that was not saved to disk.

3. Where applicable, halt the second node to avoid a possible quorum error message in an HA pair configuration: `system node halt -node second_node_name -ignore-quorum-warnings true`

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