



# Preparing for the upgrade

## ONTAP MetroCluster

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Before upgrading to an HA pair, you must verify that your system meets all requirements and that you have all of the necessary information.

## Steps

1. You need to identify unassigned disks or spare disks with available partitions that you can assign to the new controller module.

## Physical Storage Management Guide

### Disk and aggregate management

1. Based on the results of the previous step, perform either of the following:

If the result showed...	Then...
Not enough spare disks available for the new controller module on a system without root-data partitioning	Contact technical support for more information.
	Complete the following substeps: <ol style="list-style-type: none"><li>a. Determine where the aggregates for the existing node are located: <code>storage aggregate show</code></li><li>b. If disk ownership automatic assignment is on, turn it off: <code>storage disk option modify -node node_name -autoassign off</code></li><li>c. Remove ownership on disks that do not have aggregates on them: <code>storage disk removeowner disk_name</code></li><li>d. Repeat the previous step for as many disks as you need for the new node.</li></ol>

2. Verify that you have cables ready for the following connections:

- Cluster connections

If you are creating a two-node switchless cluster, you require two cables to connect the controller modules. Otherwise, you require a minimum of four cables, two for each controller module connection to the cluster-network switch. Other systems (like the 80xx series) have defaults of either four or six cluster connections.

- HA interconnect connections, if the system is in a dual-chassis HA pair

3. Verify that you have a serial port console available for the controller modules.
4. Verify that your environment meets the site and system requirements.

## NetApp Hardware Universe

5. Gather all of the IP addresses and other network parameters for the new controller module.

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