



Optional - Move internal storage or convert to drive shelf

Upgrade controllers

NetApp
January 09, 2026

Table of Contents

- Optional - Move internal storage or convert to drive shelf 1
 - Move internal drives from an original node 1
 - Convert an original node to a drive shelf 2

Optional - Move internal storage or convert to drive shelf

Move internal drives from an original node

If your original node is one of the supported models, during the process of upgrading by moving storage you can move the node's internal SATA drives, SSDs, or SAS drives to a drive shelf that is attached to the new node in the same cluster.



You can also choose to convert the system to a drive shelf and attach it to the new nodes.

Before you begin

- You must have reviewed [Considerations for upgrading controller hardware](#) about moving internal drives.

Contact technical support if you need guidance specific to your configuration.

- The SATA, SSD, or SAS drive carriers from the original node must be compatible with the new drive shelf.
- A compatible drive shelf must already be attached to the new node.
- The drive shelf must have enough free bays to accommodate the SATA, SSD, or SAS drive carriers from the original node.

About this task

You can move drives only within the same cluster.

Steps

1. Gently remove the bezel from the front of the system.
2. Press the release button on the left side of the drive carrier.

The cam handle on the carrier partially springs open, and the carrier releases from the midplane.

3. Pull the cam handle to its fully open position to unseat the carrier from the midplane, and then gently slide the carrier out of the drive shelf.



Always use two hands when removing, installing, or carrying a drive. However, do not place your hands on the drive boards exposed on the underside of the carrier.

4. With the cam handle in the open position, insert the carrier into a slot in the new drive shelf, firmly pushing until the carrier stops.



Use two hands when inserting the carrier.

5. Close the cam handle so that the carrier is fully seated in the midplane and the handle clicks into place.

You must close the handle slowly so that it aligns correctly with the face of the carrier.

6. Repeat [Step 2](#) through [Step 5](#) for all of the drives that you are moving to the new system.

Convert an original node to a drive shelf

If your original node is one of the supported models, during the process of upgrading by moving storage you can convert the node to a drive shelf and then attach it to the new nodes in the same cluster.



You can also choose to move internal drives from an original node.

About this task

You can move drive shelves only within the same cluster.

Before you begin

You must have reviewed [Considerations for upgrading controller hardware](#) about converting a node to a drive shelf. Contact technical support if you need guidance specific to your configuration.

Steps

1. Replace the controller modules in the node you are converting with appropriate IOM modules.

[NetApp Hardware Universe](#)

2. Set the drive shelf ID.

Each drive shelf, including the chassis, requires a unique ID.

3. Reset other drive shelf IDs as needed.
4. Turn off power to any drive shelves connected to the new nodes, and then turn off power to the new nodes.
5. Cable the converted drive shelf to a SAS port on the new system, and, if you are using out-of-band ACP cabling, to the ACP port on the new node.
6. Turn on the power to the converted drive shelf and any other drive shelves attached to the new nodes.
7. Turn on the power to the new nodes, and then interrupt the boot process on each node by pressing Ctrl-C to access the boot environment prompt.

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