

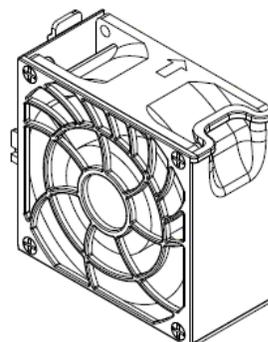
Spare Fan Instructions

This document describes how to remove and replace a fan in a SnapScale X4 node from Overland Storage.

WARNING: To reduce the risk of electric shock or damage to equipment, always remove any power cords while working with the unit.

AVERTISSEMENT: Pour réduire le risque de choc électrique ou endommagement de l'équipement, retirez toujours les cordons électriques en travaillant avec l'appareil.

CAUTION: While working with the unit, observe standard Electrostatic Discharge (ESD) precautions to prevent damage to micro-circuitry or static-sensitive devices.

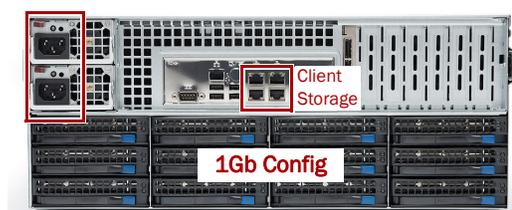


Prepare the Unit

Power Off and Disconnect Choices

There are two power-off options available:

- Shut off the **entire cluster**.
By shutting down the entire cluster, no peer sets will need to be rebuilt when it is reactivated. However, the cluster will be offline and unavailable during the repairs. This option is recommended when all nodes are having fans replaced.
- Shut off just the **affected node**.
By shutting down only the active node, the cluster remains online and active. However, some peer sets will be operating with either less (3x replication) or no (2x replication) redundancy while the node is down and afterwards when the peer sets are being rebuilt. This option is recommended when only one node is having its fan replaced.



1. Use one of the two **shutdown** options:
 - Use the Web Management Interface to shutdown an entire cluster (**Maintenance > Shutdown/Restart > Shutdown**).
 - Briefly press the **Power button** on a node to start the shutdown process for a single node.
2. When all the front LEDs are off, disconnect the **power cords** of the node being repaired.
3. Disconnect all remaining **cables** from the unit.



Remove the Bezel

1. If locked, **unlock** the bezel.
2. Press the **release button** toward the center and pull the right side out.
3. Pull the left **tabs** out of their slots and set the bezel aside.



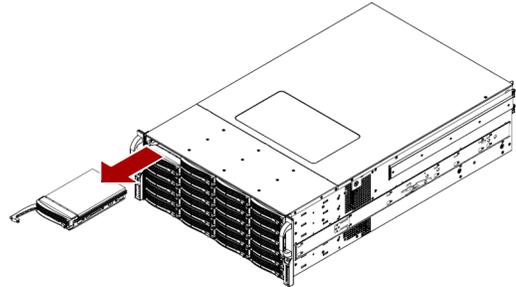
Remove the Drives

IMPORTANT: Overland recommends that you remove the disk drives to reduce the unit's weight prior to removal. They must be replaced in the **same** slots when done.

NOTE: Do not remove the disk drives from their carriers. Doing so voids the drive warranty.

Remove all the drive carriers, noting from which slot they were removed. Blank carriers can be left in place.

1. Press the release **button** on the right side of the carrier.
2. Using the built-in **handle**, pull the drive carrier out.
3. Number the **drive carrier** and set it on a secure surface.
4. Repeat [Steps 1–3](#) for **all** remaining drive carriers, front and rear.

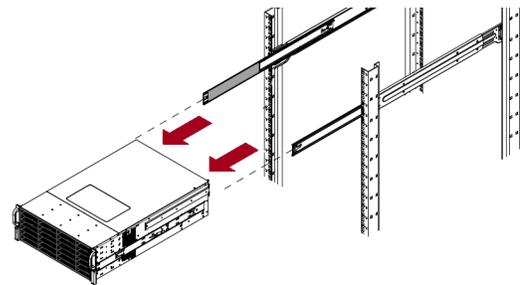


Remove Unit from Rack

WARNING: It is recommended that a mechanical lifter (or at least two people) be used during rack installation or removal to prevent injury.

AVERTISSEMENT: Pour éviter toute blessure il est recommandé qu'un monte-charge (ou deux personnes au moins) soit utilisé lors de l'installation ou de l'enlèvement du support.

1. With a lifter positioned in front of the array, release the two **captive screws** on the front flanges, and slide the chassis out until it stops.
2. Release the rail **locks** and continue to slide the chassis out onto the lifter.
3. Move the chassis onto a **secure surface**.

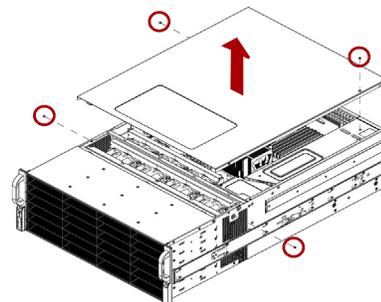


Secure Surface

Replace Fan

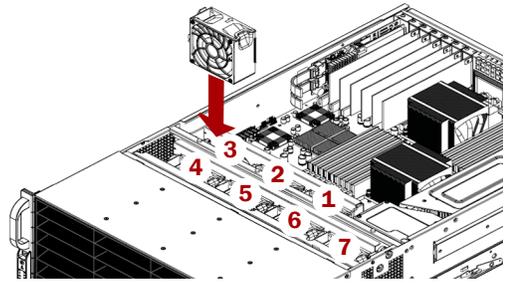
Remove Top Panels

1. Remove and retain the **three screws** on the sides and **one screw** on the top securing the rear top panel.
2. Carefully lift the **panel** off.
3. Set the **panel** on a safe surface.



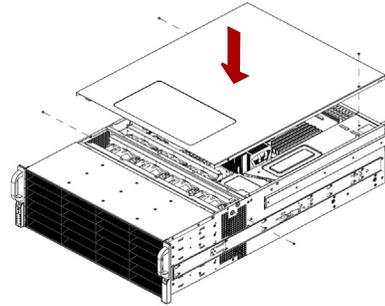
Replace the Fan

1. Locate the **fan** indicated as failed by the Web Management Interface (1-7).
2. Depress the **tab** on the side of the fan to unlock and remove it along with its housing.
The fan's power connections automatically detach.
3. Slide the **new fan** into the same slot until a click is heard.



Reinstall Top Panel

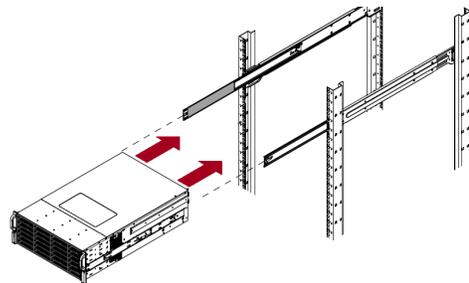
1. Verify that the **air shroud** is still correctly positioned over the motherboard.
2. Position the **rear top panel** over the unit and seat it.
3. Using the **4 retained screws**, secure the panel.
Three screws go on the sides and one on top.



Reinstall Chassis in Rack

Reinstall the Chassis

1. Using the mechanical lifter, position the **chassis** in front of the rack rails.
2. Pull the **middle** rails out of the rack connecting them to the inner rails, and slide the **chassis** into the rack.
3. Secure the unit using the **two captive screws** on the front flanges.

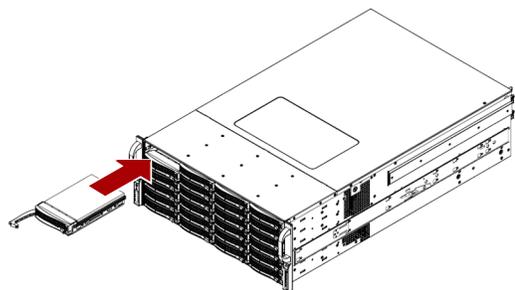


Reinstall the Drives

Return the drive carriers back to their original slots:

1. Position a **drive carrier** in front of the appropriate **bay** and slide it all the way in until it makes contact with the backplane.
2. Close the **latch**, locking the carrier in place.
3. Repeat [Steps 1–2](#) for **all** remaining drive carriers.

 **IMPORTANT:** To maintain proper airflow and cooling, a drive carrier or a blank carrier must be installed in **every** slot. No empty slots are allowed.



Reattach the Bezel

1. Insert the **bezel tabs** in the tab slots on the left.
2. With the tabs still in the slots, move the right side of the bezel toward the unit until the **latch** clicks closed.
3. If required, relock the **lock**.



Reattach Cables/Cords and Power ON

1. Reattach all **cables** to the same connections as before, making sure that the Client and Storage switches are correctly connected.
Refer to your quick start guide if necessary.
2. Attach the **power cords**.
3. Depending on the **shutdown procedure** used:
 - For an entire cluster shutdown, at the front of each node in the cluster, press the **power switch** to power each node ON.
 - For a single node shutdown, press the **power switch** to power ON that node. When it finishes booting, the node rejoins the cluster and rebuilds peer sets. Let all peer sets complete their rebuilding process before reconfiguring any additional nodes.



Return Old Parts to Overland

1. Place the **old part** in the anti-static bag and put it in the replacement part's box.
2. Use an RMA to return the part to **Overland Storage**.

For return shipping details and RMA number, go to:
<http://docs.overlandstorage.com/return-instructions>

