Spare Chassis Replacement Instructions

This document describes how to remove and replace a SnapServer 2U appliance or SnapScale X2 node chassis from Overland Storage.
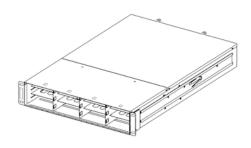
⚠️ **WARNING:** To reduce the risk of electric shock or damage to equipment, always remove any power cords while working with the unit.

WARNUNG: Um das Risiko eines elektrischen Schlags oder Schäden am Gerät zu vermeiden, ziehen Sie stets den Netzstecker, bevor Sie an der Einheit arbeiten.

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

Remove Node from Cluster (SnapScale)

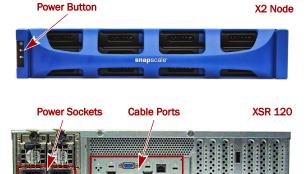When replacing a SnapScale node's chassis, you must first remove the node from the cluster:

1. At the Web Management Interface, go to **Storage > Nodes** and click the node name to view the **Node Properties** page.

2. Click **Remove Node from SnapScale** and confirm.

3. If the node is running, wait for the **node** to reboot as an Uninitialized node.

Power Off and Disconnect

If the unit is still running, power it down cleanly:

1. Power off the **server/cluster:**

   • **SnapServer**: Use the Web Management Interface to shut down the server (**Maintenance > Reboot and Shutdown > Shutdown**).

   • **SnapScale**: After removing the node from the cluster, press the **Power** button on its left flange to shut it down.

2. When all the LEDs are off, disconnect the **power cords**.

3. Disconnect the remaining **cables** from the unit, noting their locations.

Power Button   X2 Node

Power Sockets   Cable Ports   XSR 120

Remove the Front Bezel

1. Carefully take hold of the front **bezel** and pull it straight out from the appliance until the magnets release.
2. Set the bezel aside on a **secure surface**.
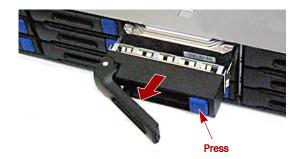
X2 Node

Remove the Drives

➡ **IMPORTANT:** Overland recommends that you remove the disk drives to reduce the unit's weight prior to removal.

Remove **all** the drive carriers. For SnapScale, note from which bay they were removed. Blank carriers can remain in the bays.

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

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

Press

① ② ③ ④
⑤ ⑥ ⑦ ⑧
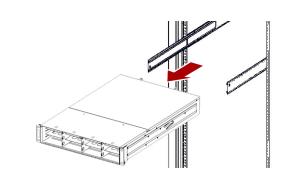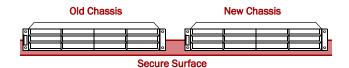⑨ ⑩ ⑪ ⑫

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.

WARNUNG: Um Verletzungen zu vermeiden, empfehlen wir zur Rack-Installation oder -Deinstallation die Nutzung einer mechanischen Hebehilfe (oder mindestens zwei Personen).

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. Remove and retain the **four screws** securing the unit to the rack.
2. With a lifter positioned in front of the array, release the rail locks and slide the **chassis** out onto the lifter.
3. Move the chassis onto a **secure surface**.
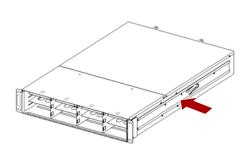4. Unpack the **new chassis** and place it next to the old one.

Old Chassis   New Chassis

Secure Surface

Transfer Components

Move Inner Sliding Rails

1. Remove and retain the **screws** securing one of the rails to the **old chassis**.
2. Position the rail on the **new chassis**, and secure it with the **retained screws**.
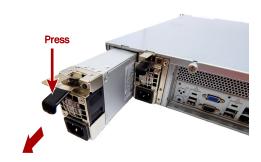3. Repeat Steps 1–2 for the **other rail assembly**.

Remove Top Panels

1. On the **new chassis**, remove and retain the **two screws** located at the front edge of the panel.

2. Loosen the **two captive screws** securing the panel rear.

3. Slide the panel toward the rear about **one-half inch** (1.25cm), lift it off, and set aside.

4. Repeat Steps 1–3 to remove the top rear panel from the **old chassis**.

Move Power Supplies

1. At the old chassis, press the top **release latch** and pull the power supply out using the black handle.

2. At the new chassis, slide the **power supply** into a bay until it locks (clicks).

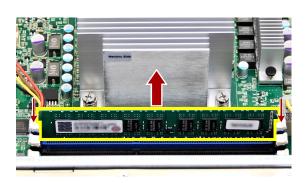3. Repeat Steps 1–2 for the **remaining** power supply.

Move DIMMs

All installed DIMMs need to be moved to the new chassis.

1. In the old chassis, remove a **DIMM** by pressing the latches on each end and lifting the DIMM out.

2. In the same slot of the new chassis, position the DIMM by lining up the **DIMM notch** with the guide in the **slot**.

3. Firmly press the DIMM down until the **latches** secure the DIMM in place.

4. Repeat Steps 1–3 for each remaining **DIMM**.

Move PCIe Cards

Any installed PCIe cards need to be moved to the new chassis:

1. In the old chassis, remove and retain a **PCIe card's** slot cover screw.

2. In the new chassis, remove and retain the **rear slot cover and screw** that matches the old chassis PCIe card slot.

3. Grasp the **PCIe card** and carefully pull it straight up and out of the old chassis slot.

4. Insert the **PCIe card** in the same slot in the **new chassis** and secure it with the retained slot cover screw.

5. Install the **slot cover** in the old chassis where the PCIe card was located using the retained screw.

6. Repeat Steps 1–5 for any other **PCIe cards**.

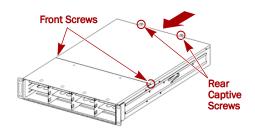## Reinstall Top Panels

1. At the new chassis, position the top panel with no more than **one-half inch** (1.25cm) extending out over the rear of the unit.

2. Slide the panel **forward** until it is fully seated.

3. Using the **two captive screws**, secure the panel rear.

4. Using the **two retained screws**, secure the panel front.

5. Repeat Steps 1–4 for the **old chassis**.

Front Screws

Rear Captive Screws

Reassemble the Unit

Install New Chassis to Rack

1. Slide out the **middle rails** from the rack.

2. Using the mechanical lifter, position the **chassis** in front of the rack.

3. Insert the **inner rails** into the **middle rails** and slide the unit into the rack.
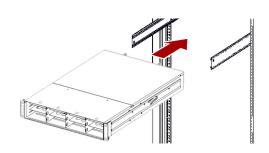
4. Using the **four retained screws**, secure the unit.

Reinstall Drives

1. Position a **drive assembly** in front of its empty **bay**.

   For SnapScale, they must be returned to the bay they were removed from. Refer to the number on the assembly.

2. Slide the assembly in until the **latch** clicks, securing it.

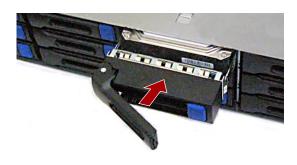3. Repeat Steps 1–2 for **all** remaining drive carriers.

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

Reattach Cables and Power Cords

1. Reattach all **cables** to the same connections as before.

2. Attach the **power cords**.

3. At the front of the unit, press the **power switch** for less than a second to power the unit ON.

Power Sockets   Cable Ports   XSR 120

Important – Read This Before Continuing

During the power-on sequence, the Status LED flashes an alternating green and amber pattern.

- If the OS versions are the **same** on both the chassis and drives, the appliance boots normally.
- If the OS on the new chassis is **different** from the version on the disk drives, the appliance goes through a special initialization and synchronization process that can take up to **10 minutes** to complete with the Status LED flashing alternating green and amber.

⚠ **CAUTION:** Under no circumstances should power be removed while the system is in this state! Doing so may render the appliance inoperable.

Once initialization is complete, the system automatically reboots and the Status LED displays a solid green color.

Reattach the Bezel

1. Position the **bezel** with the tabs aligned **inside** the top and bottom edges of the chassis.
2. Move bezel toward the unit until the **magnets** connect.
3. Verify that the bezel is **aligned** properly, all the LEDs are visible, and the Power panel is centered in the left flange.

Add Node to Cluster

NOTE: If the node was not running before removing it from the cluster, contact Overland Technical Support at http://docs.overlandstorage.com/support for help adding it.

1. Log onto the Web Management Interface and go to **Storage > Nodes** (by clicking the **Nodes** quick link).
2. Click **Add Nodes** and follow the **wizard** to add the refreshed node back to the cluster.

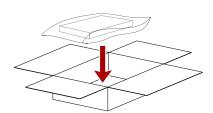## Return Replaced Parts to Overland

1. Place the **replaced chassis** in the anti-static bag and put it in the replacement part's box.
2. Use the existing **packing materials** to secure it.
3. 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