Spare Ethernet Card Instructions

This document describes how to replace an Ethernet card in a SnapScale X2 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.

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

Power Off and Disconnect

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

1. Use one of these two procedures to power off the **server/ cluster:**
   * Shut off the **entire cluster** by using the Web Management Interface (**Maintenance > Shutdown/ Restart > Shutdown**).

     By shutting down the entire cluster, no peer sets will need to be rebuilt when it is reactivated. This is the recommended option.

     However, the cluster will be offline and unavailable during the repairs.
   * Shut off just the **affected node** by briefly pressing the **Power button** on a node.

     By shutting down only the 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.

2. When all the LEDs are off, disconnect the **power cords**.
3. Disconnect the remaining **cables** from the unit, noting their locations.
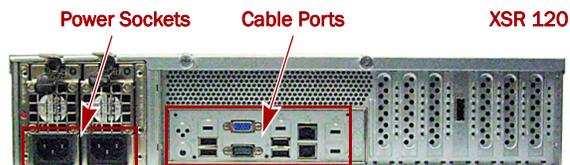
Remove the Front Bezel

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**.

Power Button — X2 Node

Power Sockets — Cable Ports — XSR 120

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, noting from which SnapScale 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
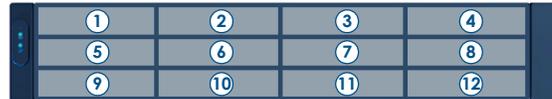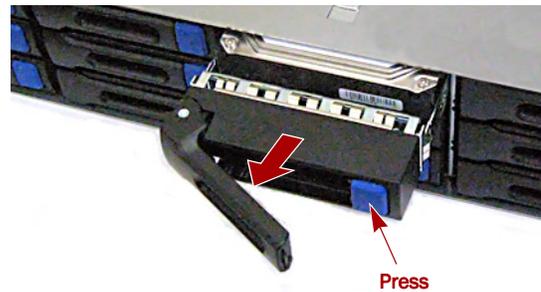
Remove Unit from Rack

> ⚠ **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 recommande 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**.

Secure Surface
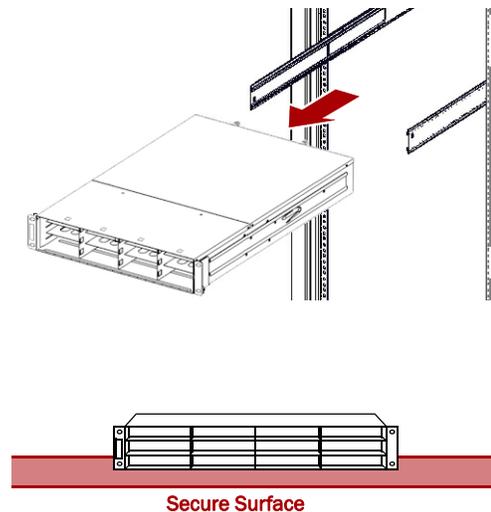
Install PCIe Cards

Remove Top Panel

1. 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.


Front Screws

Rear Captive Screws
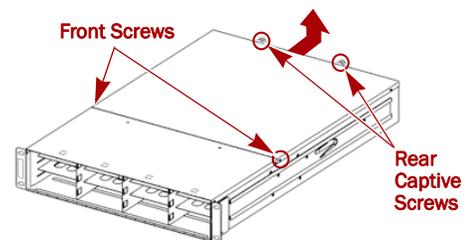
Replace Ethernet Card

1. Remove and retain the **slot cover screw** of the card being replaced.

2. Grasp the **Ethernet card** and carefully pull it straight up and out of the chassis slot.

   Set the card aside on an ESD-safe surface.

3. Insert the **new card** into the same slot.

   Push the card down firmly to ensure a good connection in the slot.

4. Use the retained **screw** to secure the card bracket.
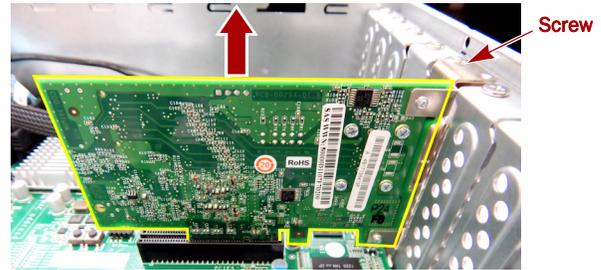
Screw

Reinstall Top Panel

1. 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.

Front Screws

Rear Captive Screws
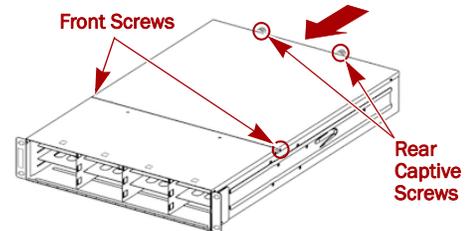
Reassemble the Unit

Return 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.
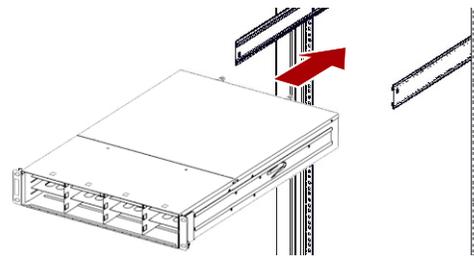
Reinstall Drives

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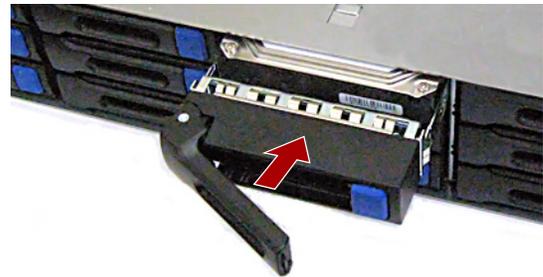
> **IMPORTANT:** To maintain proper airflow and cooling, a drive assembly or a blank carrier must be installed in *every* bay. No empty bays are allowed.

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
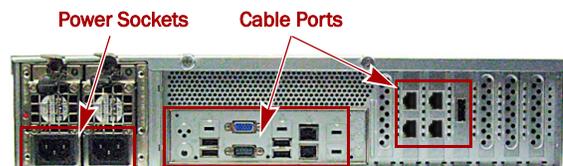
Reattach the Bezel

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.
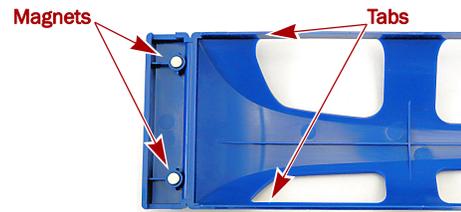
Return Replaced Parts to Overland

1. Place the **replaced 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