

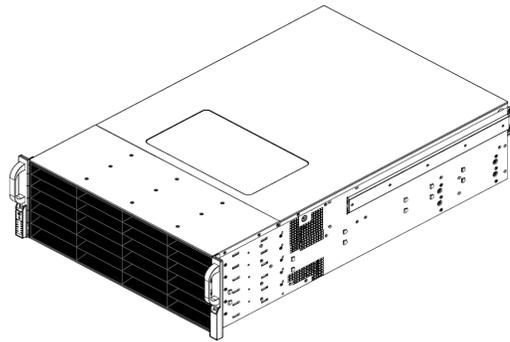
Chassis Replacement Instructions

This document describes how to swap out the chassis of 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.

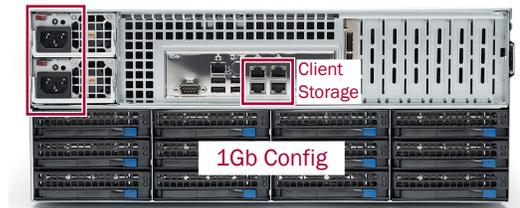


IMPORTANT: For SnapScale nodes running ROS 3.x, contact Overland Technical Support before attempting this procedure. Go to <http://docs.overlandstorage.com/support> for details.

Prepare the Node

Power Off and Remove

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, and then press the **Power** button on its left flange to shut it down.
4. When all the front LEDs are off, disconnect the **power cords** of the node.
5. Disconnect all remaining **cables** from the node.



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.



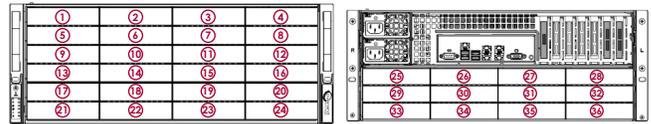
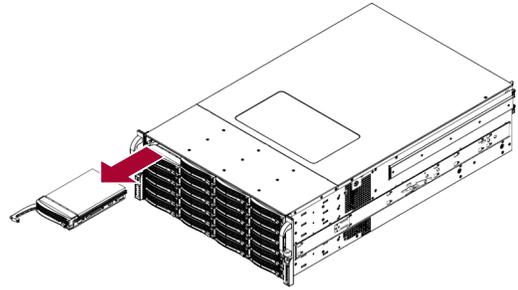
Remove the Drives

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 drive bays in the new node.

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

Remove all the drive and blank carriers, noting from which slot they were removed.

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 carriers, front and rear.

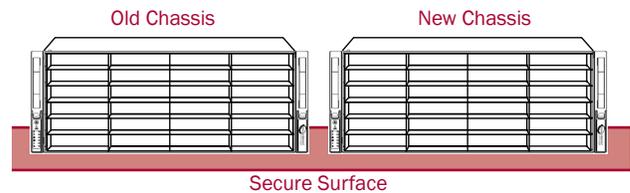
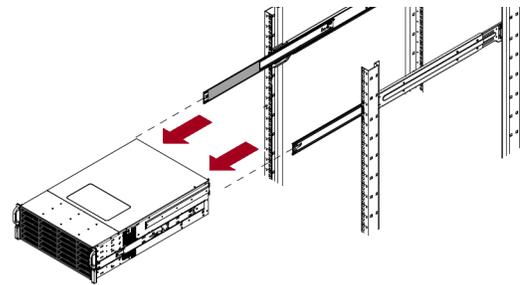


Remove Node from Rack

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 **captives 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**.
4. Unpack the **new chassis** and place it next to the old one.

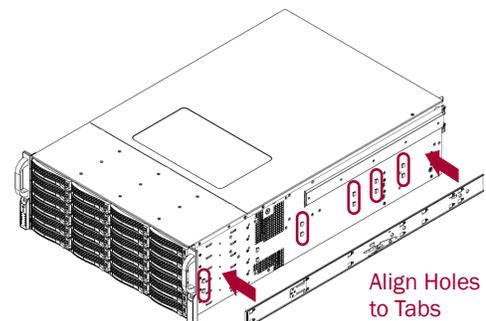


Transfer Components

Move Inner Sliding Rails

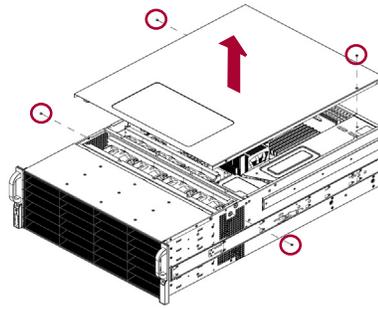
You need to move the attached inner slide rails to the new chassis:

1. Remove and retain the **screws** holding one of the rails on the side of the old chassis.
2. Slide the **rail** toward the rear, and remove it.
This may require some force as it is a tight fit.
3. Position the **rail** against the side of the **new chassis** with the locking tabs going through the holes on the rail.
4. Slide the rail toward the front to lock it and secure it with the **retained screws**.
5. Repeat **Steps 1–4** for the **other rail**.



Remove Top Panels

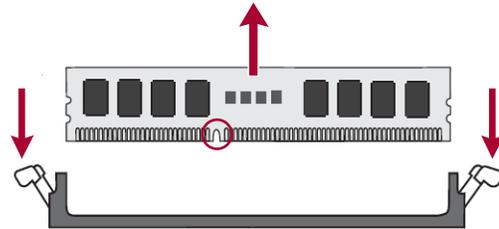
1. At the **old chassis**, remove and retain the **three screws** on the sides and **one screw** on the top securing the rear top panel.
2. Carefully lift the **panel** off.
3. Set the **panel** on a safe surface.
4. Remove the **air shroud** over the motherboard.
5. Repeat [Steps 1–4](#) for the **new chassis**.



Move DIMMs

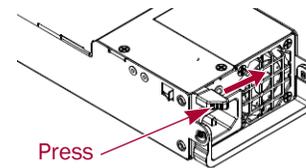
All installed DIMMs need to be moved to the new chassis:

1. Remove a DIMM in the **old chassis** by pressing the latches on each end and popping the DIMM out.
2. Position the DIMM in the **same slot** of the **new chassis**, lining up the DIMM notch with the guide in the slot.
3. Firmly press the DIMM down until it **latches** (clicks).
4. Repeat [Steps 1–3](#) for any **other DIMMs**.



Move the Power Supplies

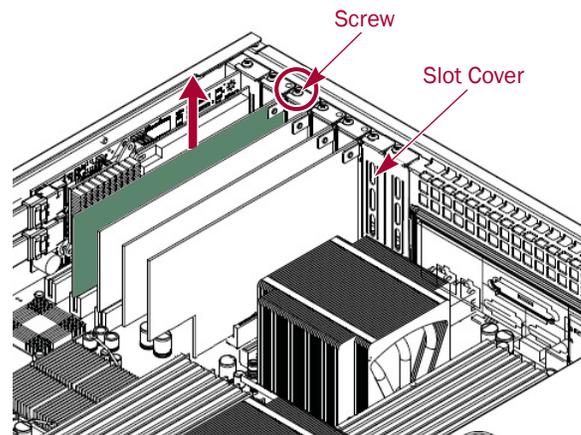
1. While pressing the release latch toward the handle, pull the **handle** to slide the module out of the old chassis.
2. Slide the power supply into the same bay of the **new chassis** until it locks (clicks).
3. Repeat steps [Steps 1–2](#) for the **remaining** power supply.



Move Optional PCIe Cards

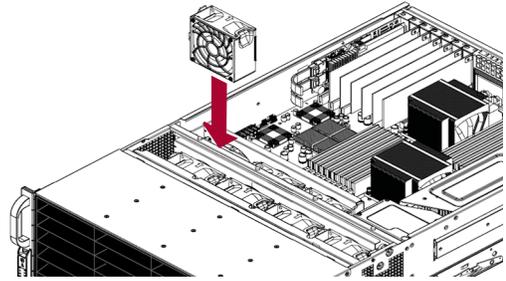
If optional PCIe cards are installed, move them to the new chassis, placing them in the same slots.

1. In the new chassis, remove the **slot cover** where the card is supposed to go, retaining the screw and cover.
2. In the old chassis, remove and retain the **screw** of the card being moved.
3. Grasp the **card** and carefully pull it straight up and out of the socket making sure the bracket does not catch.
4. Insert the **card** into the same socket in the new chassis. Push the card down firmly to ensure a good connection in the socket.
5. Use the retained **screw** to secure the card bracket.
6. Using the retained screw, install the **slot cover** in the old chassis where the card was removed.
7. If other PCIe cards exist, repeat [Steps 1–6](#) for each card.



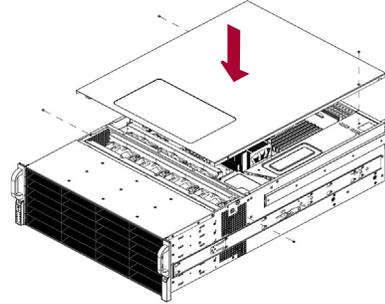
Move the Fans

1. In the **old** chassis, 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.
2. At the **new** chassis, slide the **fan** into the same slot until a click is heard.
3. Repeat [Steps 1–2](#) for all the remaining fans.



Reinstall Top Panels

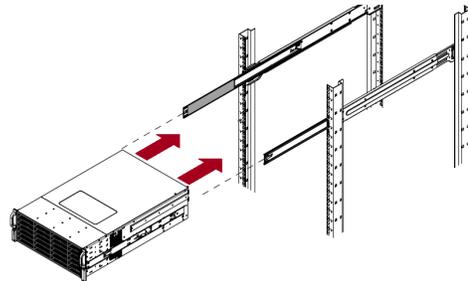
1. Replace the **air shroud** over the motherboard.
2. Position the **rear top panel** over the unit and seat it.
3. Using the **4 retained screws**, secure the panel.
Three screws go on the sides and one on top.
4. Repeat [Steps 1–3](#) for the **old chassis**.



Install New Chassis in Rack

Install the Chassis

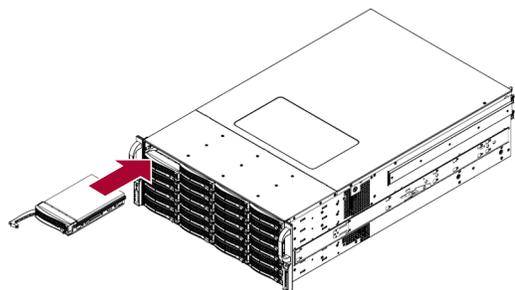
1. Using the mechanical lifter, position the **new chassis** in front of the node's existing rack rails.
2. Pull the **middle** rails out of the rack, connect those rails to the node rails, and slide the **chassis** all the way into the rack.
3. Secure the unit using the **two captive screws** on the front flanges.



Reinstall the Carriers

Return the drive and blank carriers to the same drive bays they were removed from:

1. Position a **carrier** in front of its **empty 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 carriers, front and rear.



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

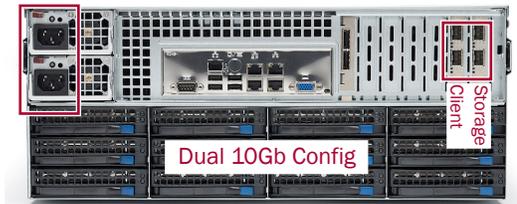
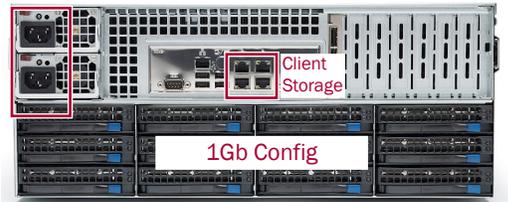
Reattach the Bezel

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 and Power Cords

1. Reattach all **cables** to the same connections as before, with the Client and Storage switches correctly connected.
2. Attach the **power cords**.
3. At the front of the node, press the **power switch** to power it ON.



Important – Read This Before Continuing

If the RAINcloudOS 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. During this time, the Status light blinks, alternating between a single- and double-blink.

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.

If the RAINcloudOS versions are the same on both the chassis and drives, the appliance boots normally.

Complete the Exchange

Add Node to Cluster

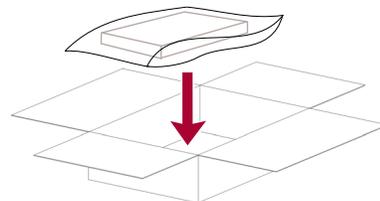
NOTE: If the node was not running before removing it from the cluster, contact Overland Technical Support at <http://docs.overlandstorage.com/support>.

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 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>



<http://support.overlandstorage.com>

You can get additional technical support on the Internet at the **Overland Storage Support web page**, or by contacting Overland Storage using the information found on the **Contact Us** page on our web site.