

## Product End-of-Life Disassembly Instructions

**Product Category:** Servers

### Marketing Name / Model

HPE ProLiant Compute XD680 Server

**Purpose:** The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HPE products to remove components and materials requiring selective treatment, as defined by Directive 2012/19/EU of the European Parliament and of the Council on Waste Electrical and Electronic Equipment (WEEE). Detailed removal instructions are available in the server Maintenance and Service Guide on the [HPE Product Support Center](#).

### 1.0 Items Requiring Selective Treatment

1.1 The items listed below are classified as requiring selective treatment.

1.2 Quantities vary by product configuration

Item Description	Notes	Quantity of items included in product
Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)	With a surface greater than 10 sq cm	Up to 12
Batteries	All types including standard alkaline and lithium coin or button style batteries	1
Mercury-containing components	For example, mercury in lamps, display backlights, scanner lamps, switches, batteries	0
Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm	Includes background illuminated displays with gas discharge lamps	0
Cathode Ray Tubes (CRT)		0
Capacitors / condensers (Containing PCB/PCT)		0
Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height	Quantity varies by product configuration and power supply model selected	PSU – 18 GPU Board - 16
External electrical cables and cords	Quantity depends on number of power supplies, networking devices, and I/O devices	6
Gas Discharge Lamps		0
Plastics containing Brominated Flame Retardants		0
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner	Include the cartridges, print heads, tubes, vent chambers, and service stations.	0
Components and waste containing asbestos		0

Item Description	Notes	Quantity of items included in product
Components, parts and materials containing refractory ceramic fibers		0
Components, parts and materials containing radioactive substances		0

### 2.0 Tools Required

List the type and size of the tools that would typically be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

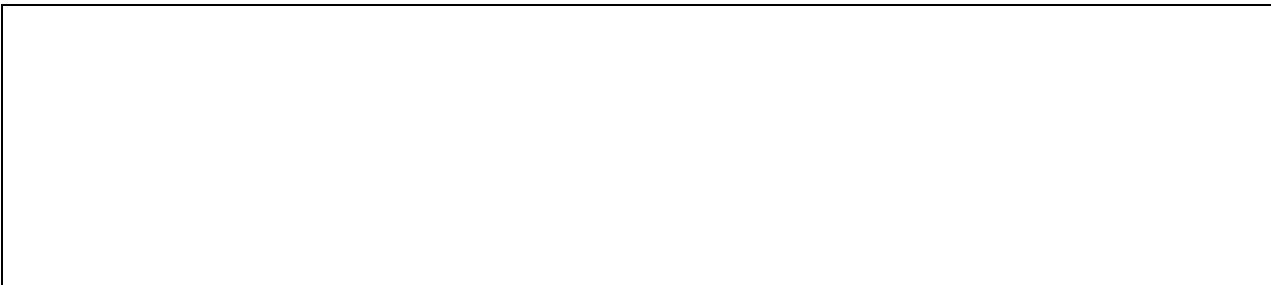
Tool Description	Tool Size (if applicable)
Torx Driver	T10
Torx Driver	T15
Phillips Screwdriver	#1

### 3.0 Product Disassembly Process

3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment. Provide links to the product Maintenance and Service Guide where reference is needed for detailed disassembly instructions.

1. Disconnect power
2. Remove Lid
3. Remove MLB
4. Remove Fan Cage
5. Remove GPU board and capacitors
6. Remove PSUs and capacitors
7. Remove Switchboard
8. Remove Power Distribution Board
9. Remove Drive Backplane
10. Make sure all boards are removed from chassis
11. Make sure all DIMMs, storage drives, pcie cards are removed.

3.2 Optional Graphic. If the disassembly process is complex, insert a graphic illustration below to identify the items contained in the product that require selective treatment (with descriptions and arrows identifying locations).

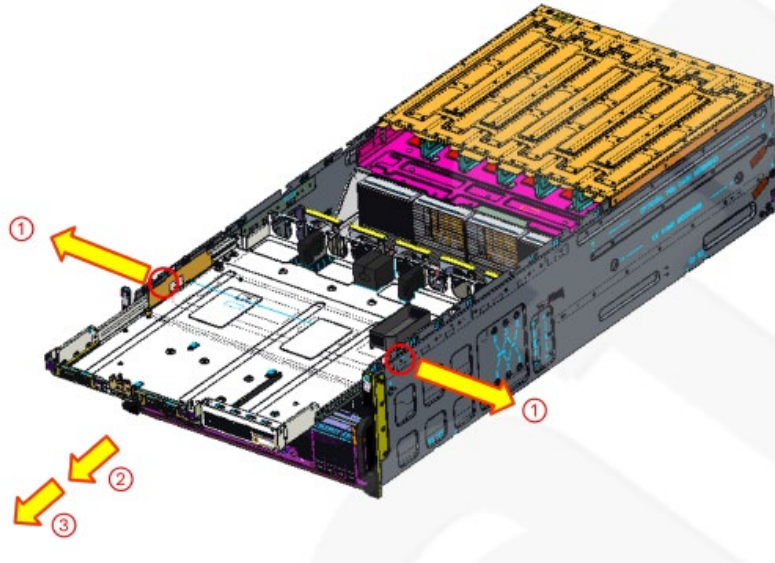


Remove cover. \*T15 bit needed



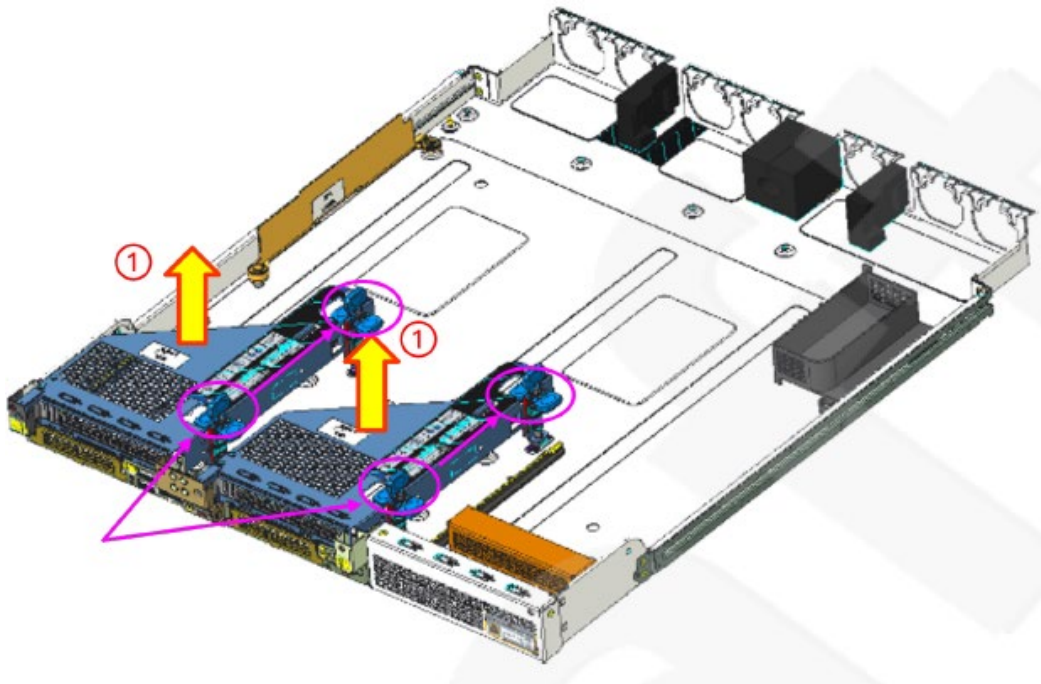
Remove MLB

Remove the T10 (x2) screws, one screw from each side of the chassis (callout 1).

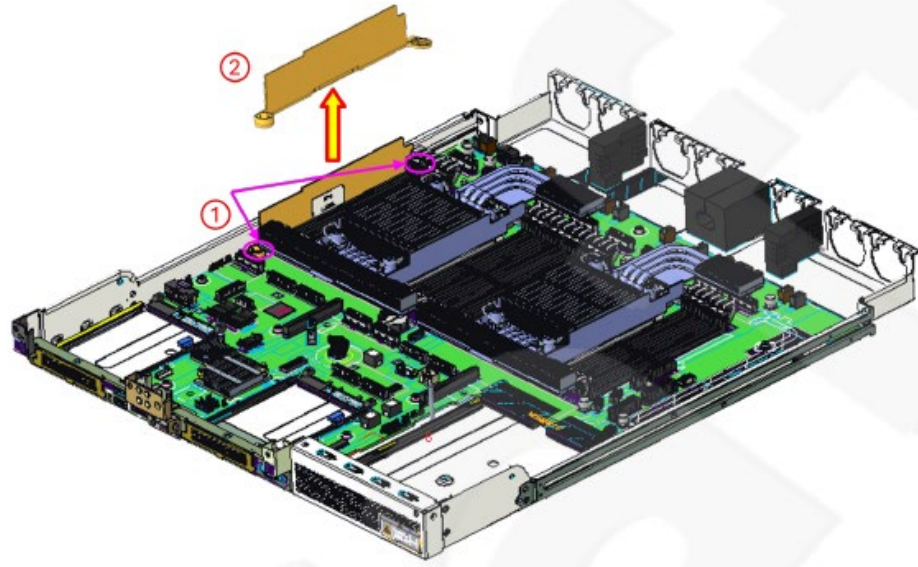




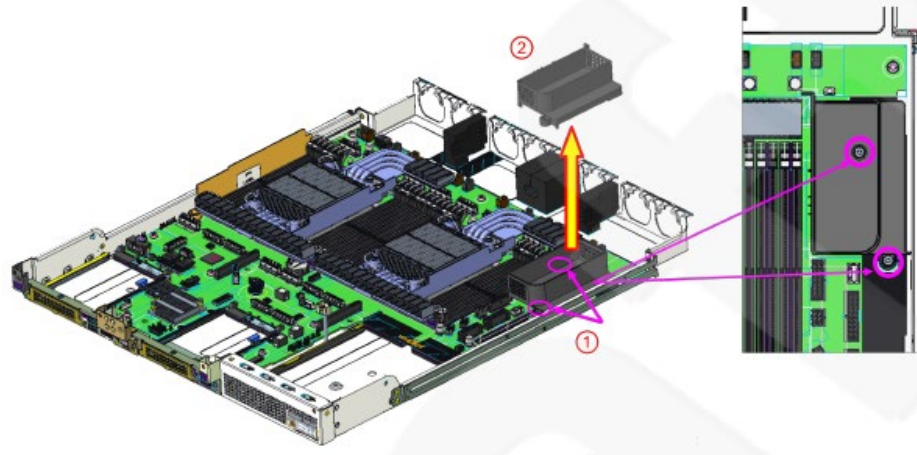
Release the lock latches (x2) and remove the riser cage 1 and 2



1. Loosen the screws (x2) securing the DIMM guard with the torque 6 in-lb (callout 1).
2. Lift up the DIMM guard from the MLB tray (callout 2).

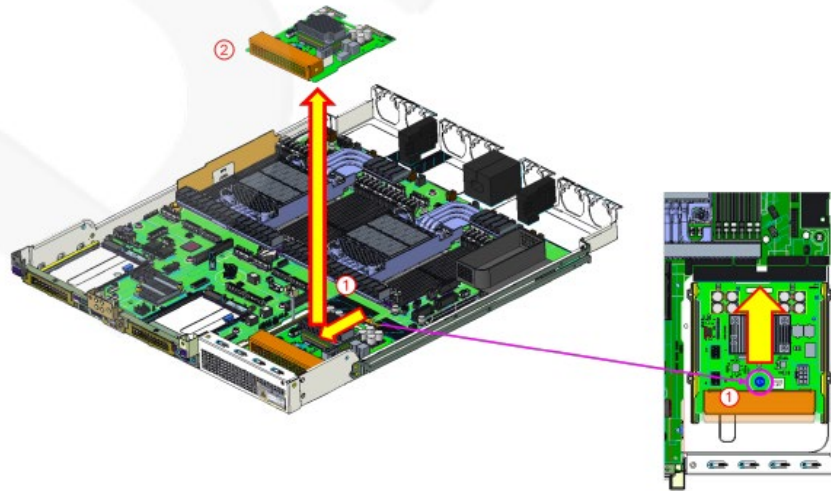


1. Remove the screws (x2) securing the cable baffle with the torque 6 in-lb (callout 1).
2. Lift up the cable baffle from the MLB tray (callout 2).

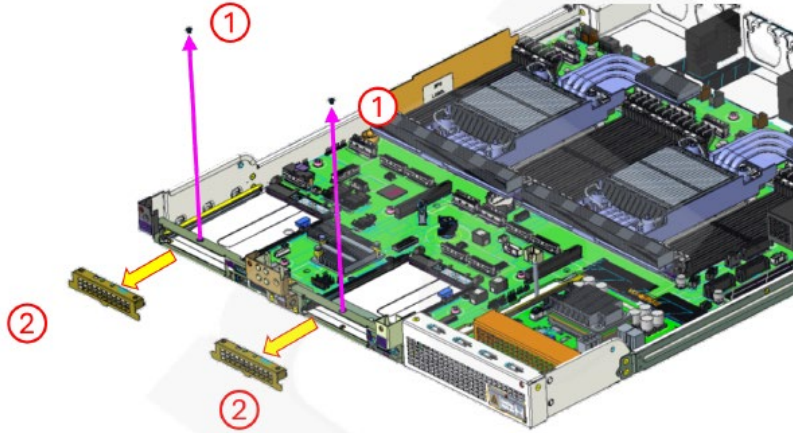


T15 needed

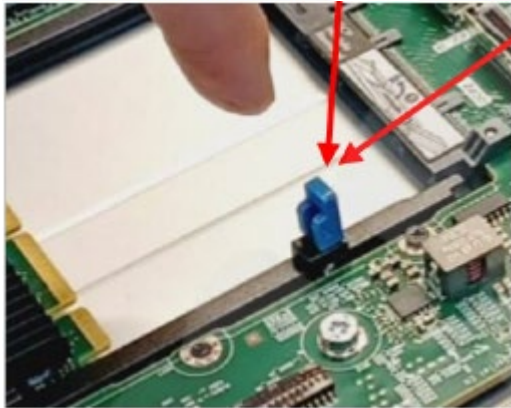
1. Remove the screw securing the converter board with the torque 6 in-lb (callout 1).
2. Slide and lift up the converter board from the MLB tray (callout 2).



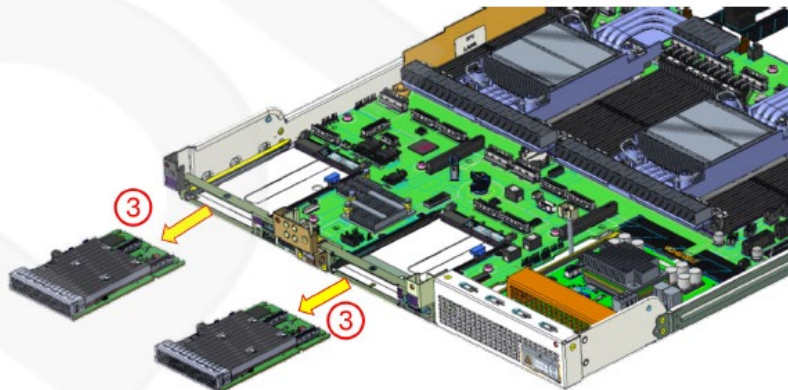
1. Remove T10 screw (x1) of OCP-A blank and OCP-B blank (callout 1).
2. Remove the corresponding OCP-A and OCP-B blanks (callout 2).



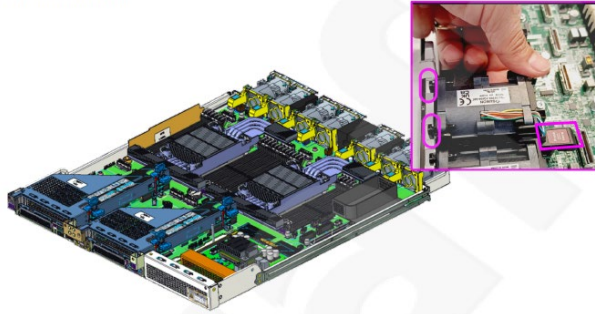
3. Unlock the OCP latches securing the OCP modules.



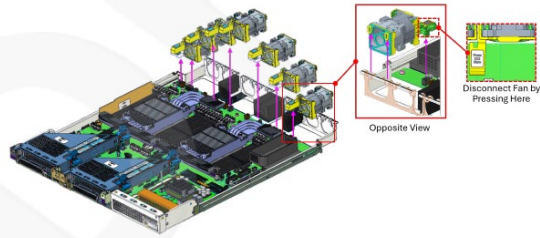
Remove OCP-A and OCP-B modules (callout 3).



1. Release the fan latch.

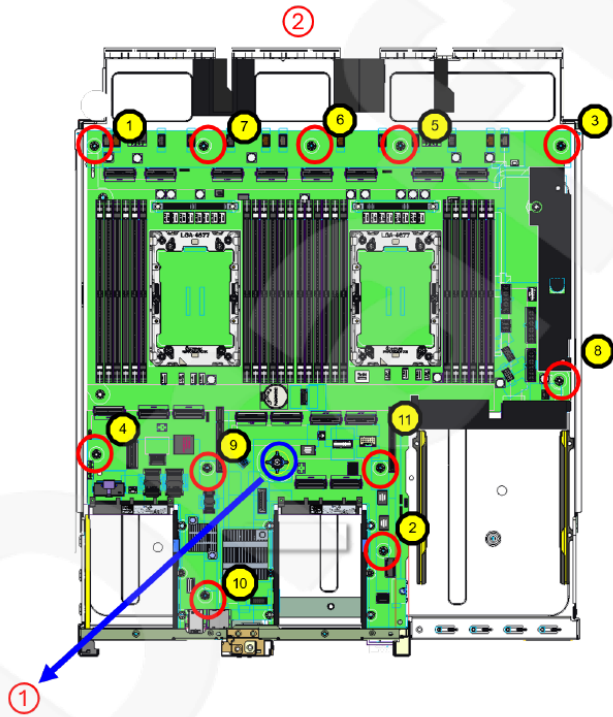


2. Disengage the fan from the tray fan slot.  
3. Remove the fan from the tray.

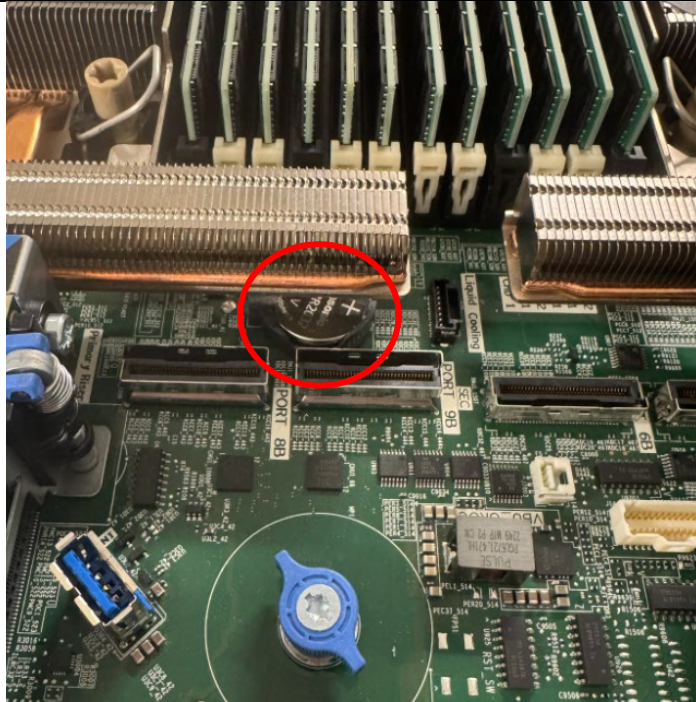


4. Repeat the above steps to remove the other fans.

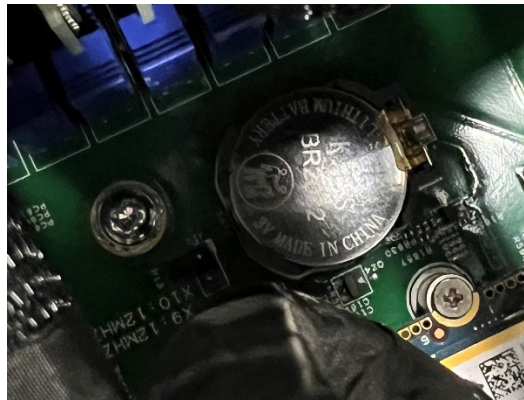
1. Remove the thumbscrew (x1) securing the motherboard on MLB tray (callout 1).  
2. Remove the screws (x11) from the motherboard in sequence (callout 2).



Remove  
BR2032  
battery.

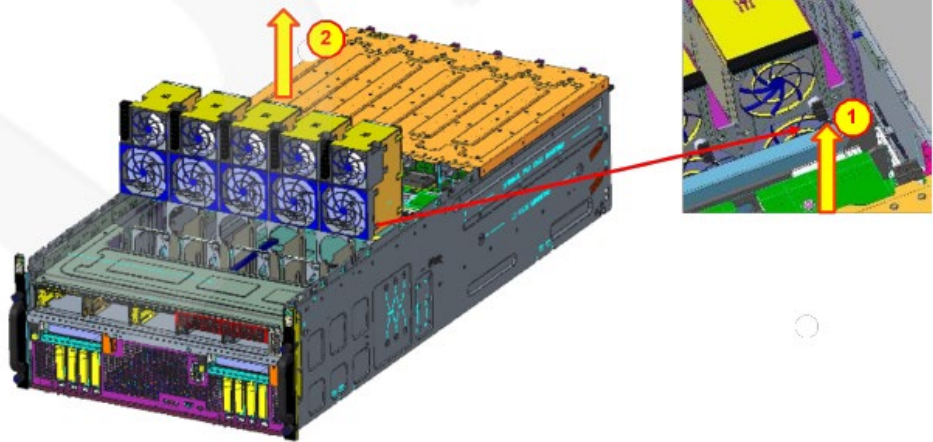


Lithium Coin Battery




Remove fans

1. Unlock the plunger on the side wall of each dual fan (callout 1).
2. Lift the dual fan module from the fan cage (callout 2).



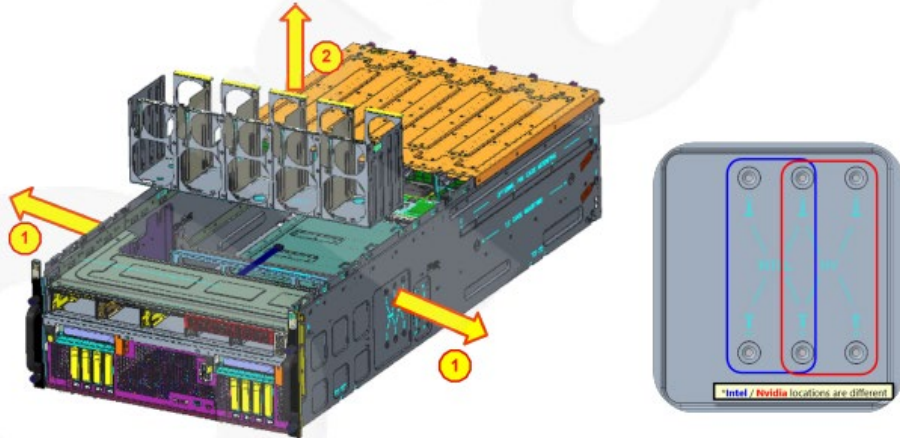
3. Repeat the above steps to remove the other fan modules.

1. Remove the T10 (x8) screws, four screws from each side of the chassis (callout 1).

 **NOTE**

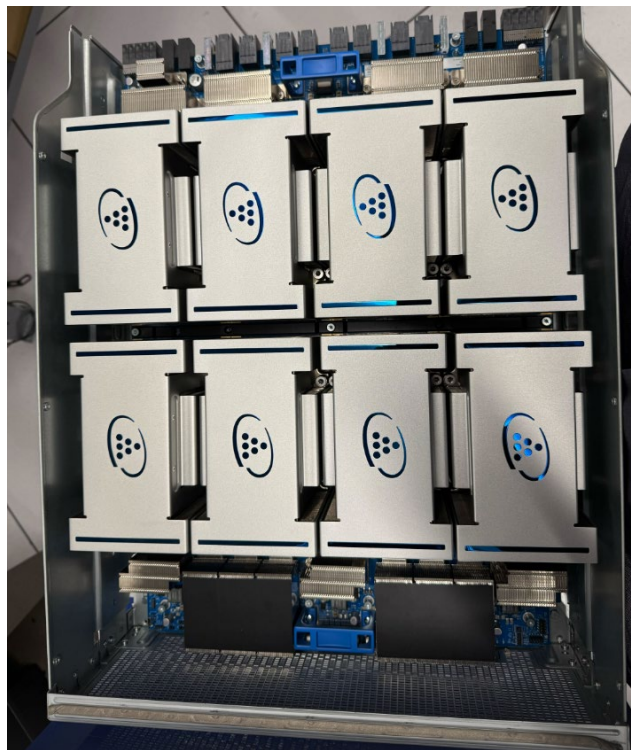
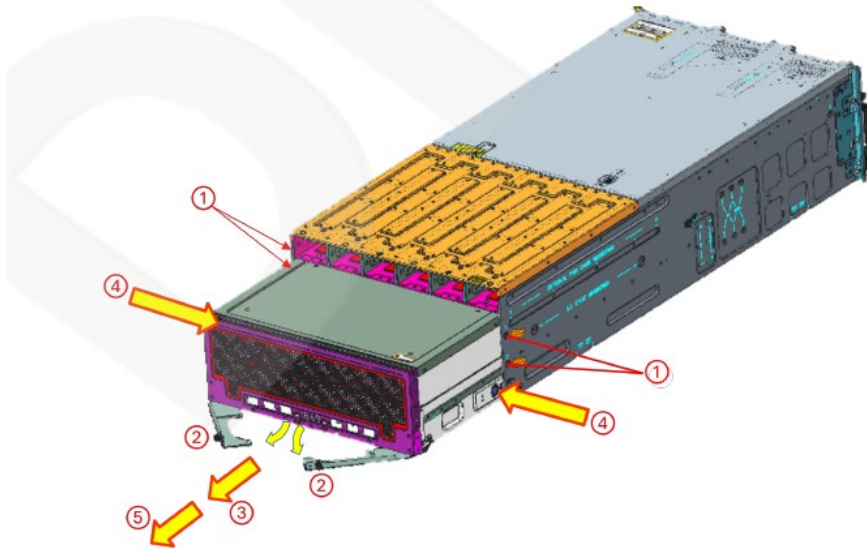
Fan cage location varies for Intel and **NVIDIA**. Follow the imprinted instructions on the chassis.

2. Remove the fan cage from the chassis (callout 2).

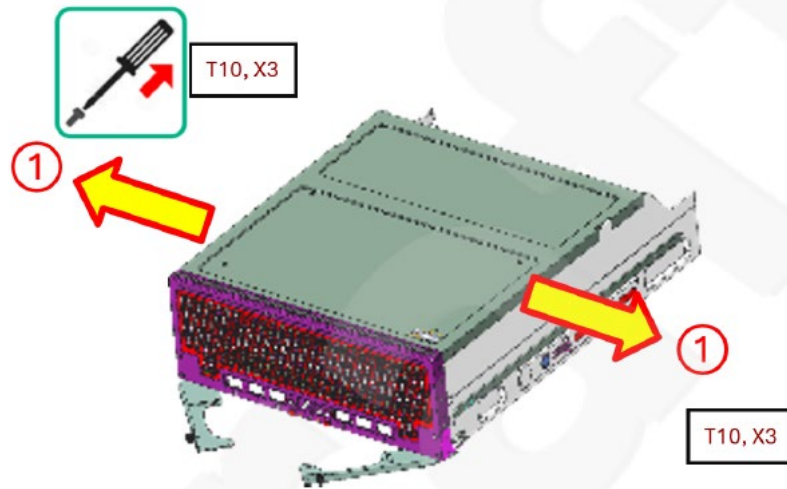


Remove GPU board

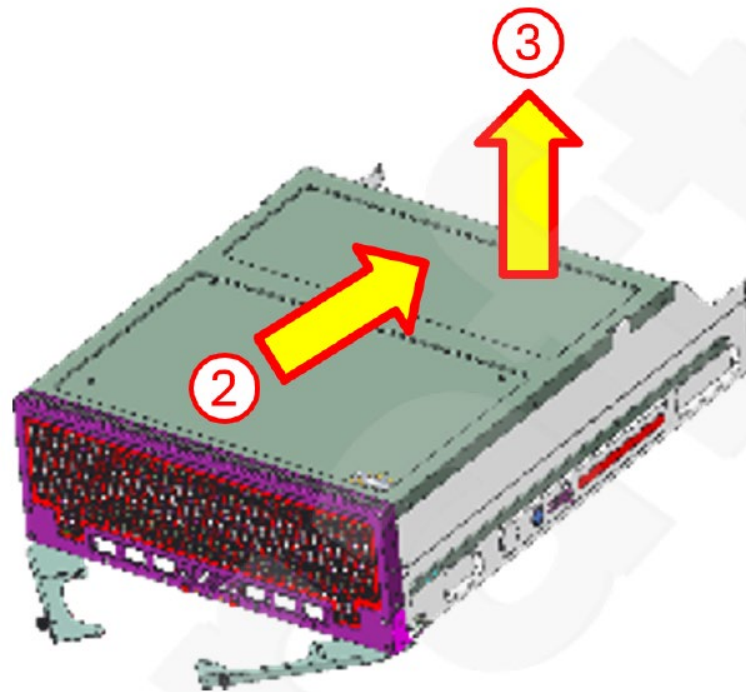
2. Disconnect all peripheral cables from the server.
3. Remove the T15 screws (x4), two screws from each side of the chassis (callout 1).
4. Loosen the T15 handle screws and rotate the latches outward (callout 2).
5. Slide out the GPU tray to the stop point by using the front handles (callout 3).
6. Press both side release buttons (callout 4).
7. Remove the GPU tray from the chassis (callout 5).



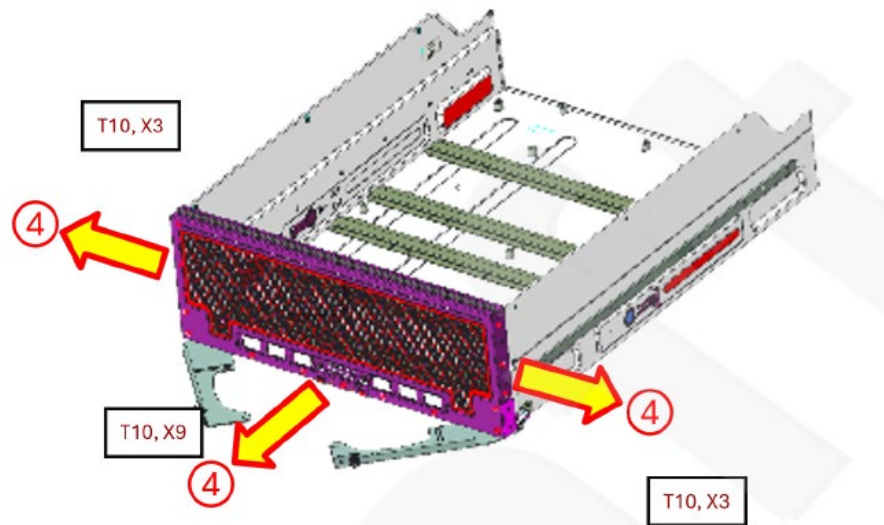
1. Remove the T10 (x6) screws using T10 screwdriver, three screws from each side of the GPU tray (callout 1).



2. Slide and lift the GPU top cover (callout 2).
3. Remove the GPU top cover (callout 3).



4. Remove the T10 (x15) screws from the GPU panel, nine screws from the front side of the panel, and three screws from each side of the panel (callout 4).



5. Slide forward the GPU panel to disengage the alignment spool from the slots on each side (callout 5).
6. Lift the GPU panel vertically to remove (callout 6).

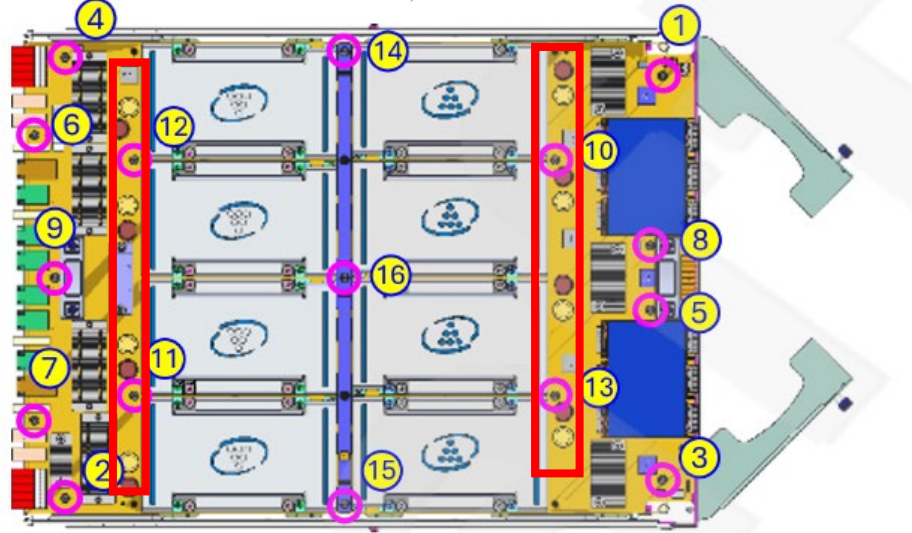


7. Remove the GPU board:

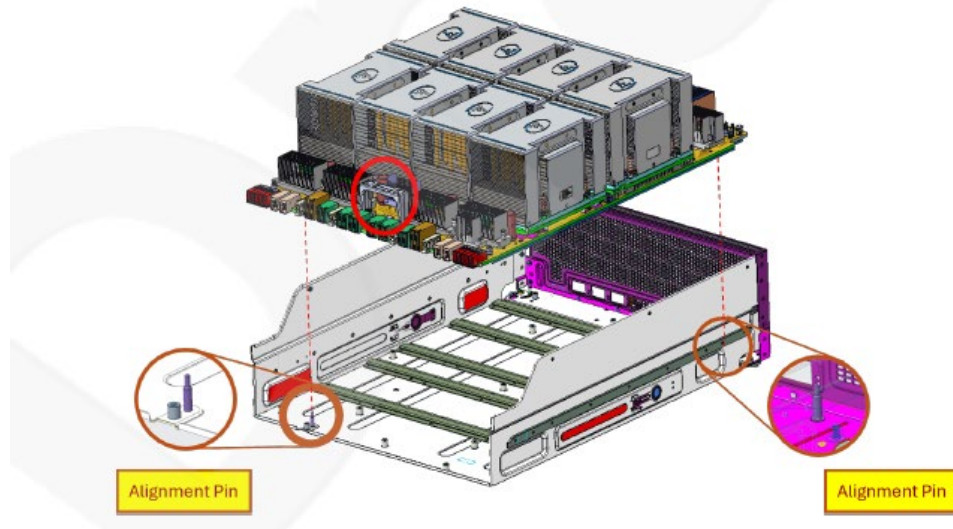
Remove the 16 capacitors on the GPU board

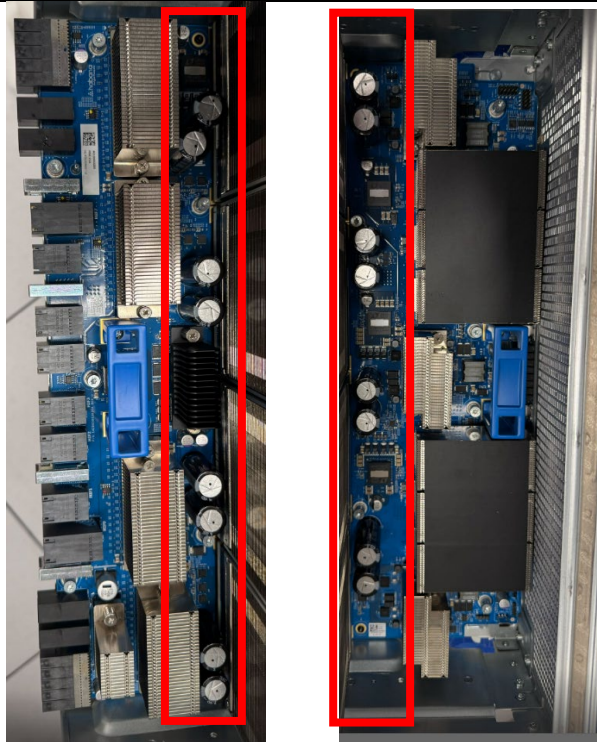
a. Remove the thumb screws (x16) securing the GPU board with a T15 screwdriver in pattern 1 through 16.

\*Capacitors located in the red boxes (8 on each side)

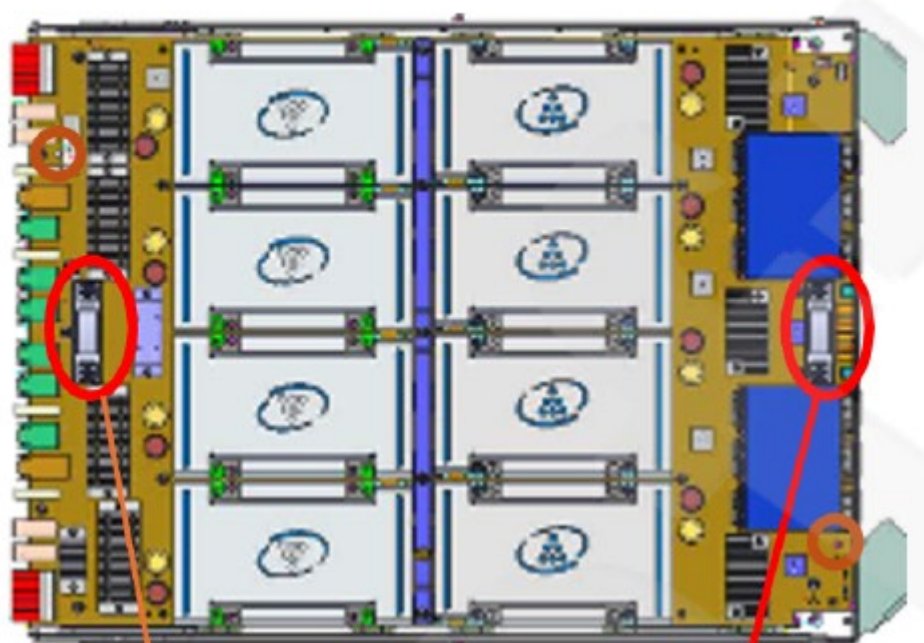


b. Disengage the GPU board from the GPU tray by disengaging from its alignment pins.

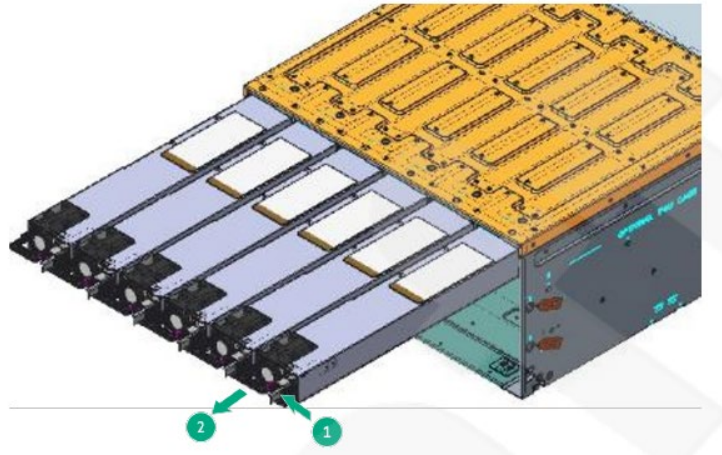




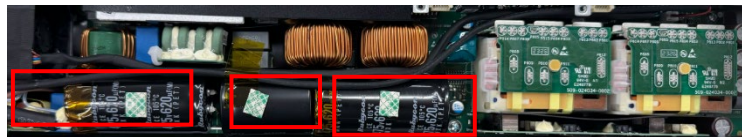
c. Lift up the GPU board from the GPU tray by using the handles.



Remove  
PSUs

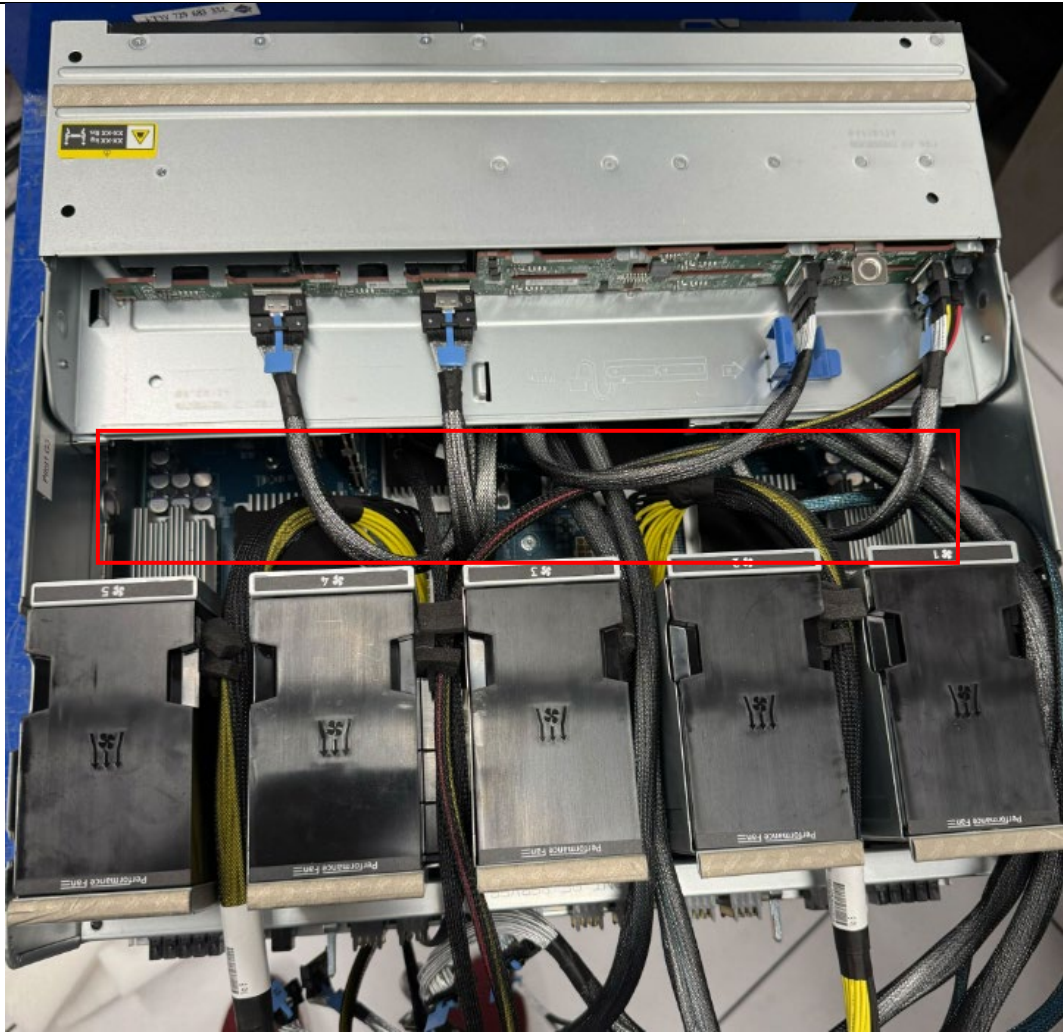


Remove  
capacitors  
from PSU. 6  
phillips  
screws  
removed  
from chassis

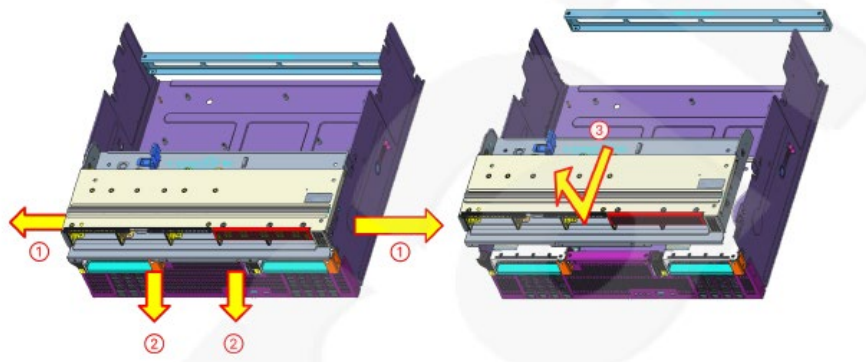


Remove switchboard

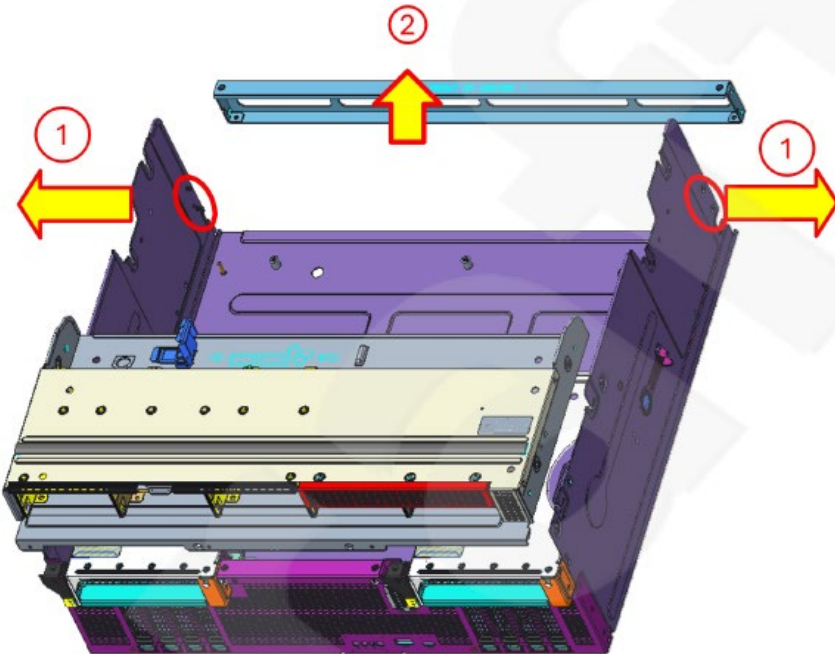
\*Make sure fan cage is removed already



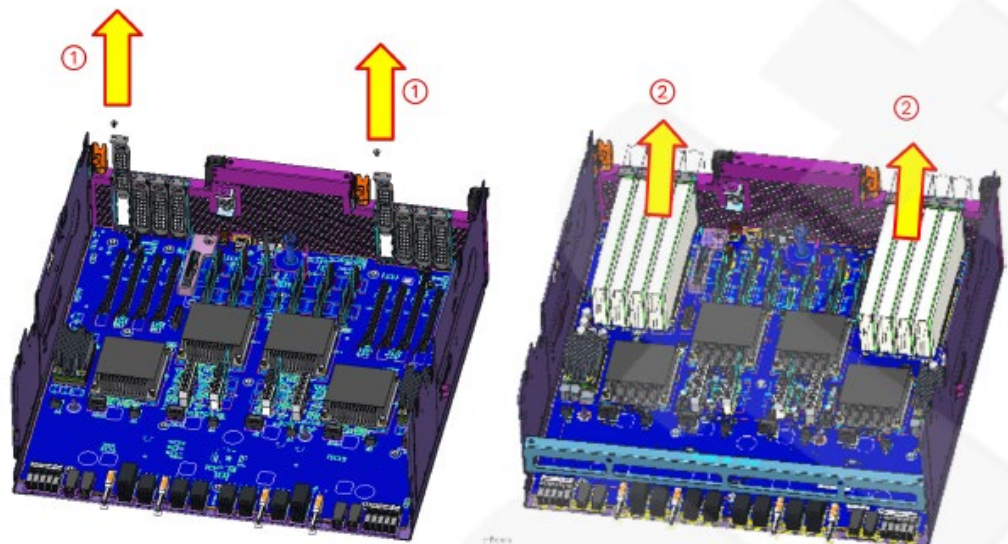
1. Remove T10 screws (x4), two screws from each side of the HDD cage (callout 1).
2. Remove T10 screws (x2) from the front side of the HDD cage (callout 2)
3. Slide HDD cage to front and lift up to remove the HDD cage (callout 3).



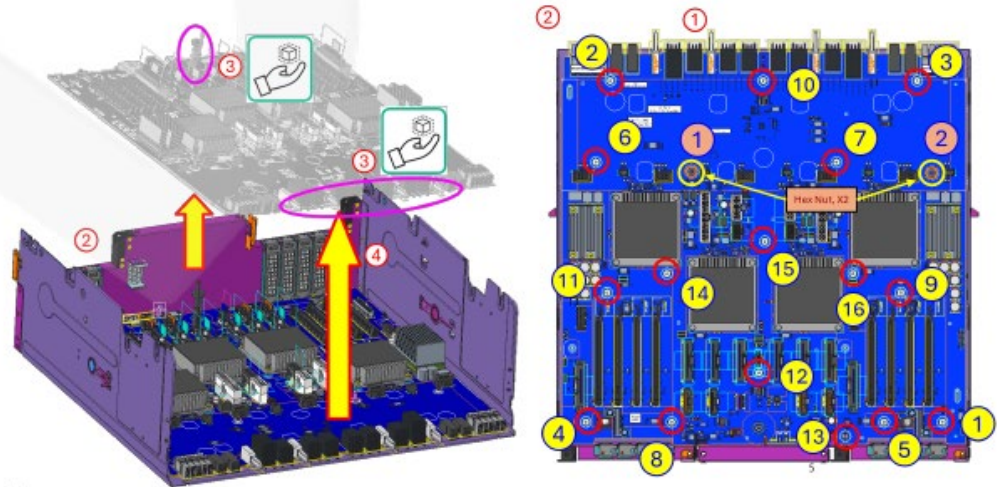
1. Loosen T10 screws (x4), two screws from each side of the switchboard tray holding the bracket (callout 1).
2. Remove the bracket (callout 2).



1. Remove screw (x1) securing the PCIe blank.
2. Remove PCIe blanks (callout 1)
3. Remove the screw (x1) securing the option cards (callout 2).
4. Remove the PCIe options card (callout 3).



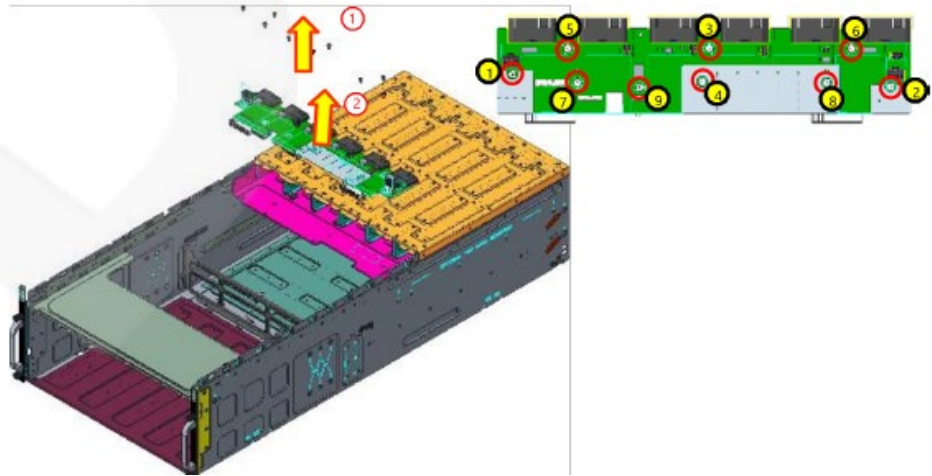
1. Remove Hex nuts (x2) from the switchboard tray (callout 1).
2. Remove (x16) screws from the switchboard in the sequence (callout 2).
3. Grab the thumb screw on the front and jig on the rear end of the switchboard PCA to lift it from the tray (callout 3).
4. Remove the switchboard from the tray (callout 4).



Remove power distribution board

Remove the PDB:

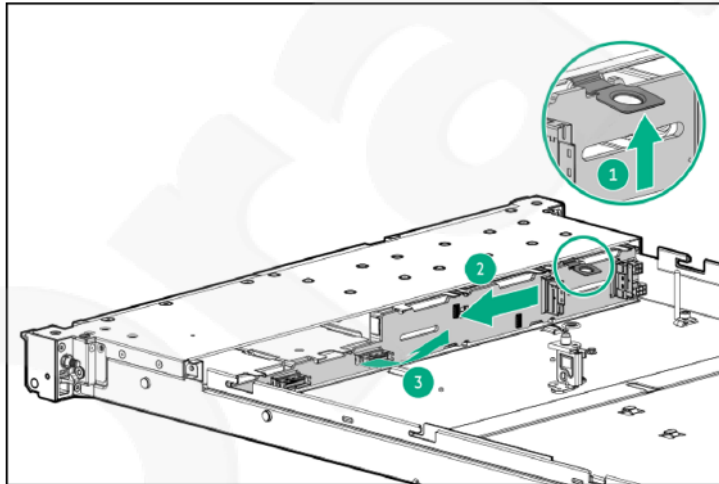
- a. Loosen the screws (x8) from PDB in sequence (TBD) with the torque 6 in-lbf using a T15 screwdriver (callout 1).
- b. Remove the PDB from the chassis (callout 2).



Remove drive  
backplane

6. Remove the drive backplane:

- a. Release the latch securing the drive backplane (callout 1).
- b. Slide the backplane along the arrow direction (callout 2).
- c. Remove the drive backplane (callout 3).



Make sure all boards are removed from the chassis

