ADVANTECH

Enabling an Intelligent Planet

SKY-8134DU2501

7/2th , 2025

History

Version	Date	Handled by	Note
V01	2025/7/2	Alan.Ku	Update Content

Agenda

- ❑ Server Front Side
- ❑ Server Rear Side
- ❑ DIMMs Population
- ❑ Access the device via console
- ❑ WebUI Access
- ❑ OS installation

Server Front Side [1/4] – Overview

2 x SATA3 2.5’ trays

Service Tag

USB 3.0

POWER BUTTON	: Blue color, indicate the system power state.
ID BUTTON	: Blue color, allow users to identify the system.
RESET BUTTON	: Hard reset the system.
STATUS LED	: Red color, indicate system events asserted.

Server Front Side [2/4]-Storage Swap

- Step #1 Press the button

- Step #2 Tray handle will be released

- Step #3 Grab the tray handle and pull it evenly towards you

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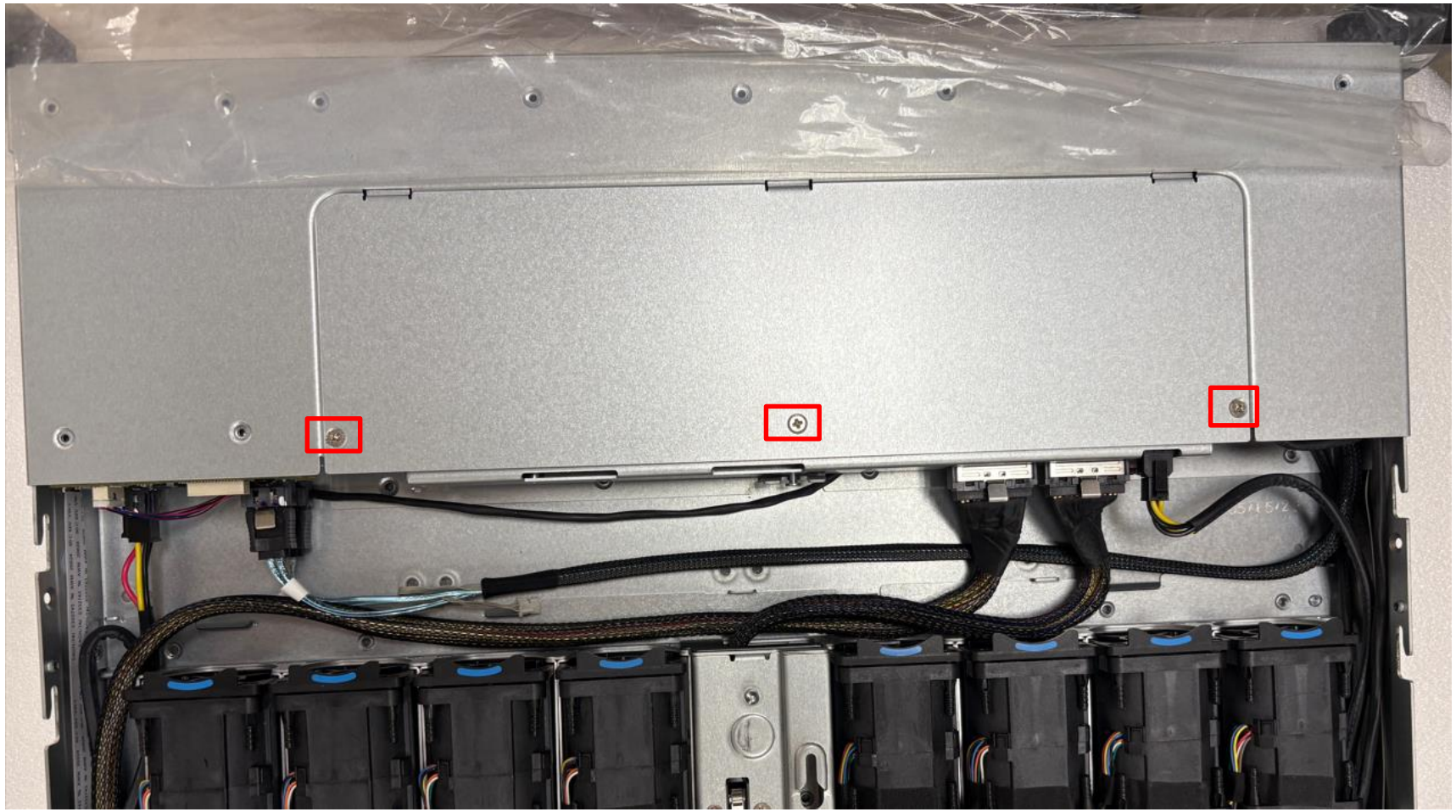
Server Front Side [2/4]-Storage Swap

- Step #4 Install the drive with four screws contained in the disk screw kit

- Step #4 Insert the tray into the disk bay until the drive engages with the connector on the HDD backplane. Then, click the handle back to the tray.

Server Rear Side [3/4]- Remove PCIe Cover

❑ Step #1 Loose the three screws from top.

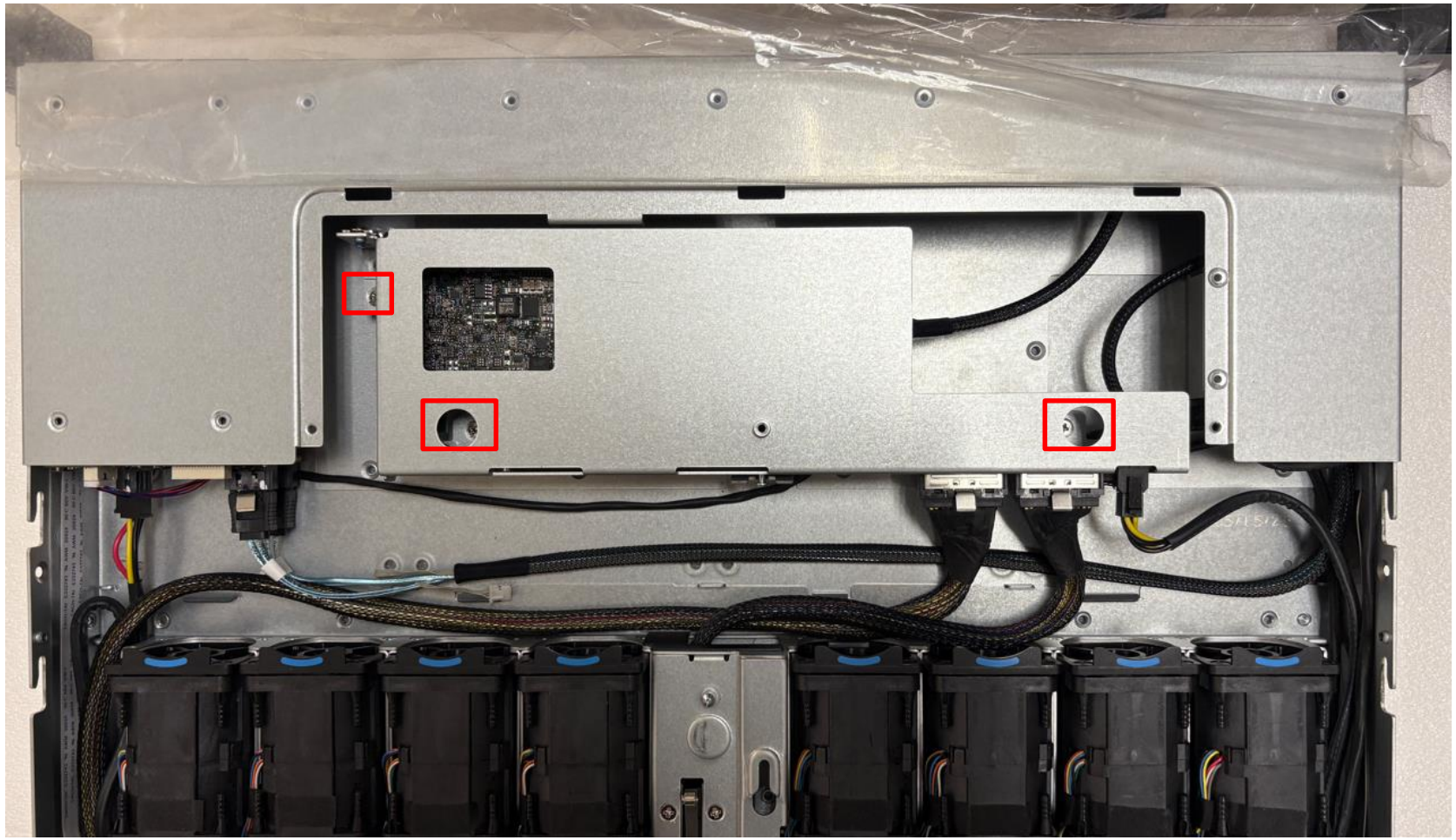


Server Rear Side [3/4]- Remove PCIe Cover

- Step #2 Slightly pull up the cover.

Server Rear Side [4/4]- Remove PCIe Cage

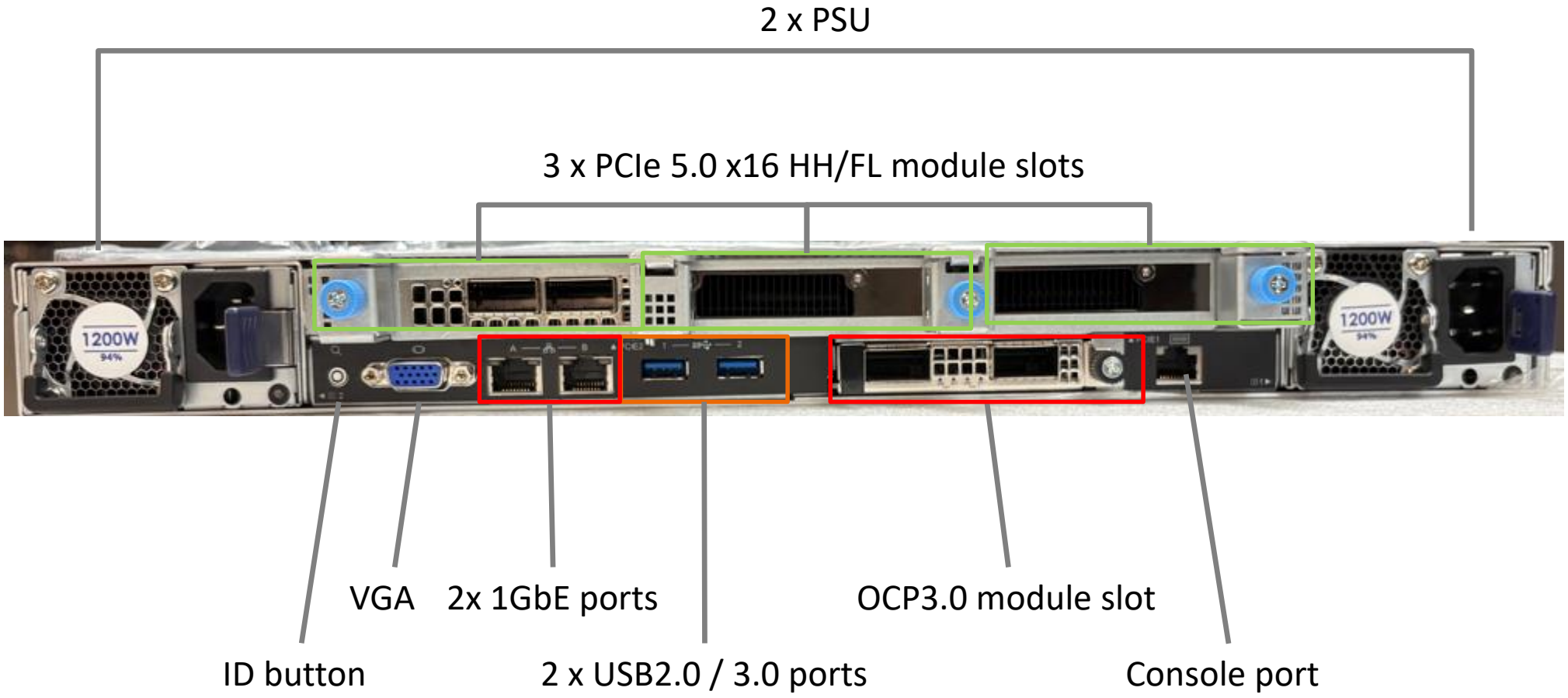
❑ Step #1 Loose the three screws from top.



Server Rear Side [4/4]- Remove PCIe Cage

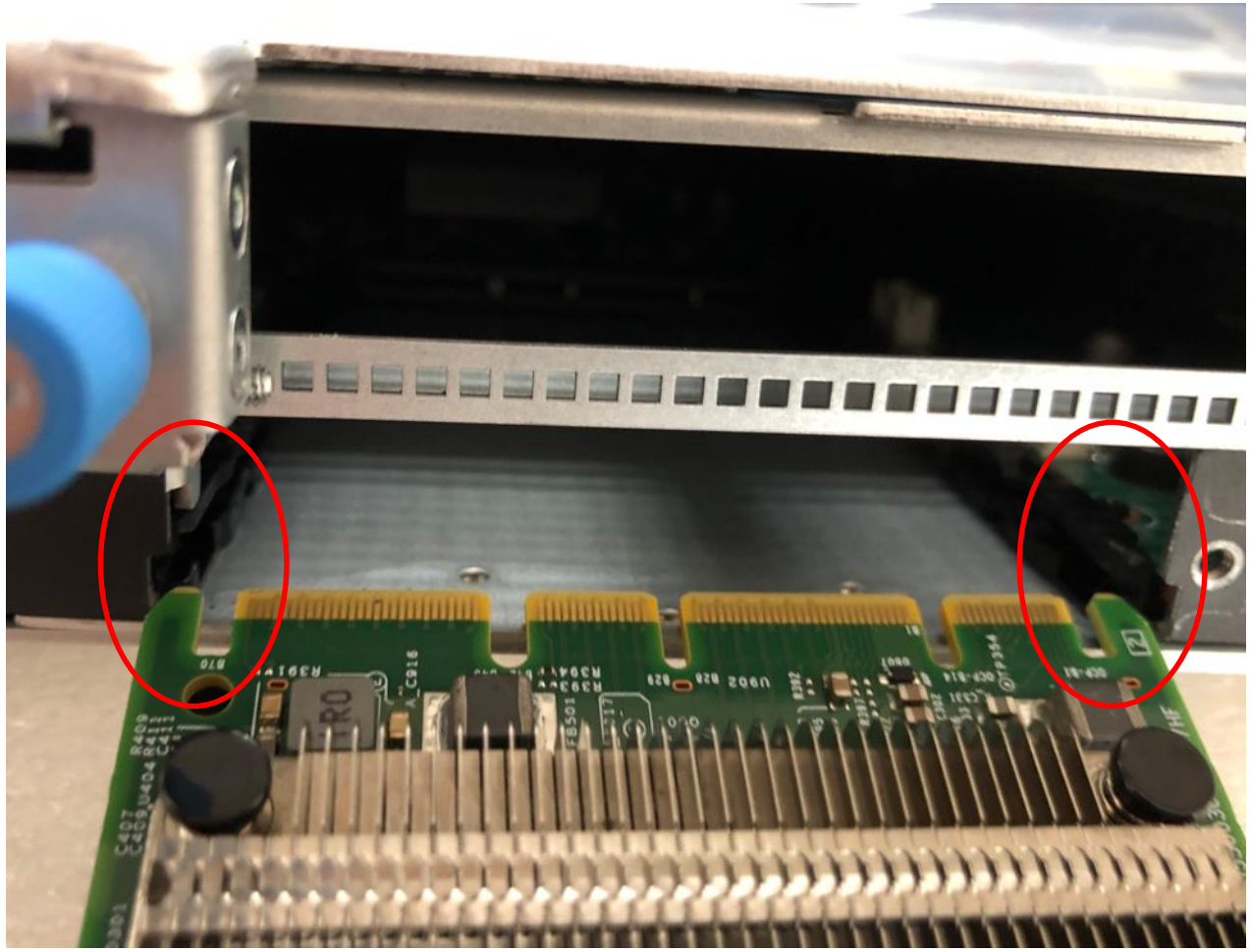
- Step #2 Take out the PCIe cage, install or remove PCIe cards.

Server Rear Side [1/6] – Overview



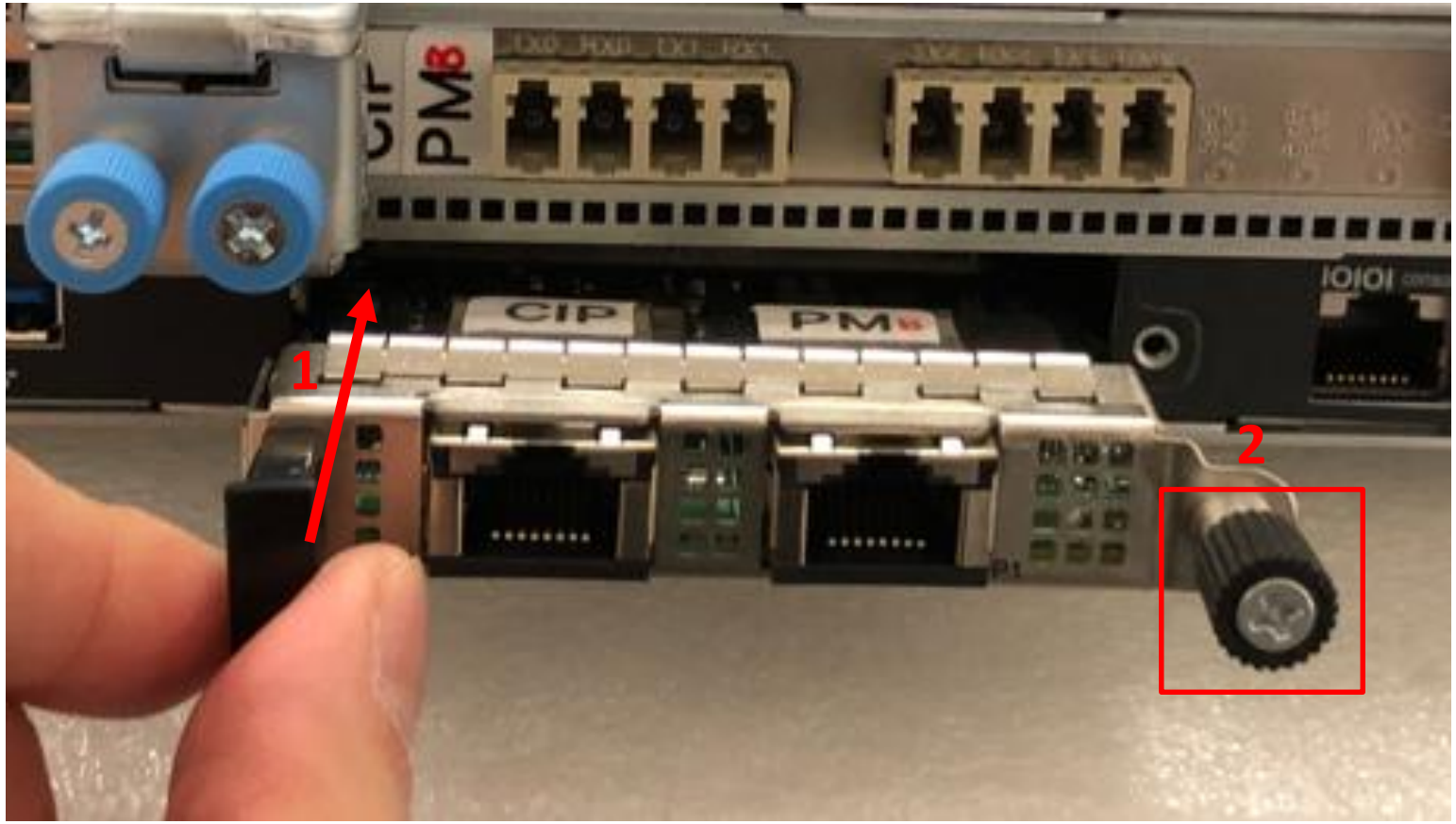
Server Rear Side [2/6] – OCP3.0 Installation

- Step#1 – Align the module PCB board to slideways.



Server Rear Side [2/6] – OCP3.0 Installation

❑ Step#2 – Push the OCP module to the end and tight up the screw.

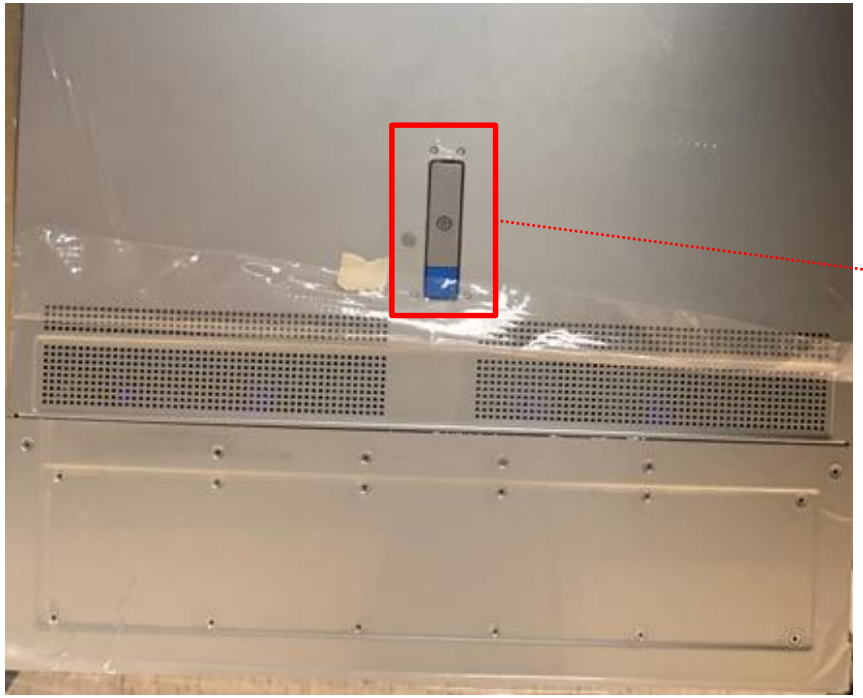


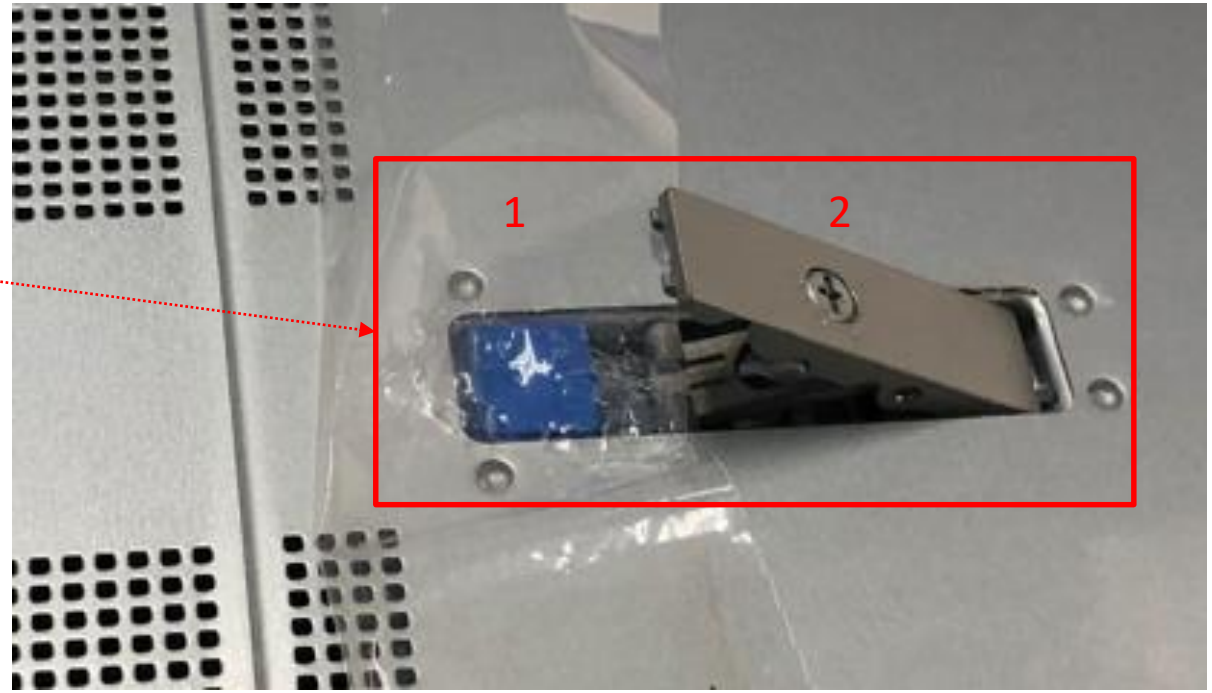
Server Rear Side [3/6]- Remove PCIe Cage

❑ Step #1 Loose the screws on both side

Server Rear Side [3/6]- Remove PCIe Cage

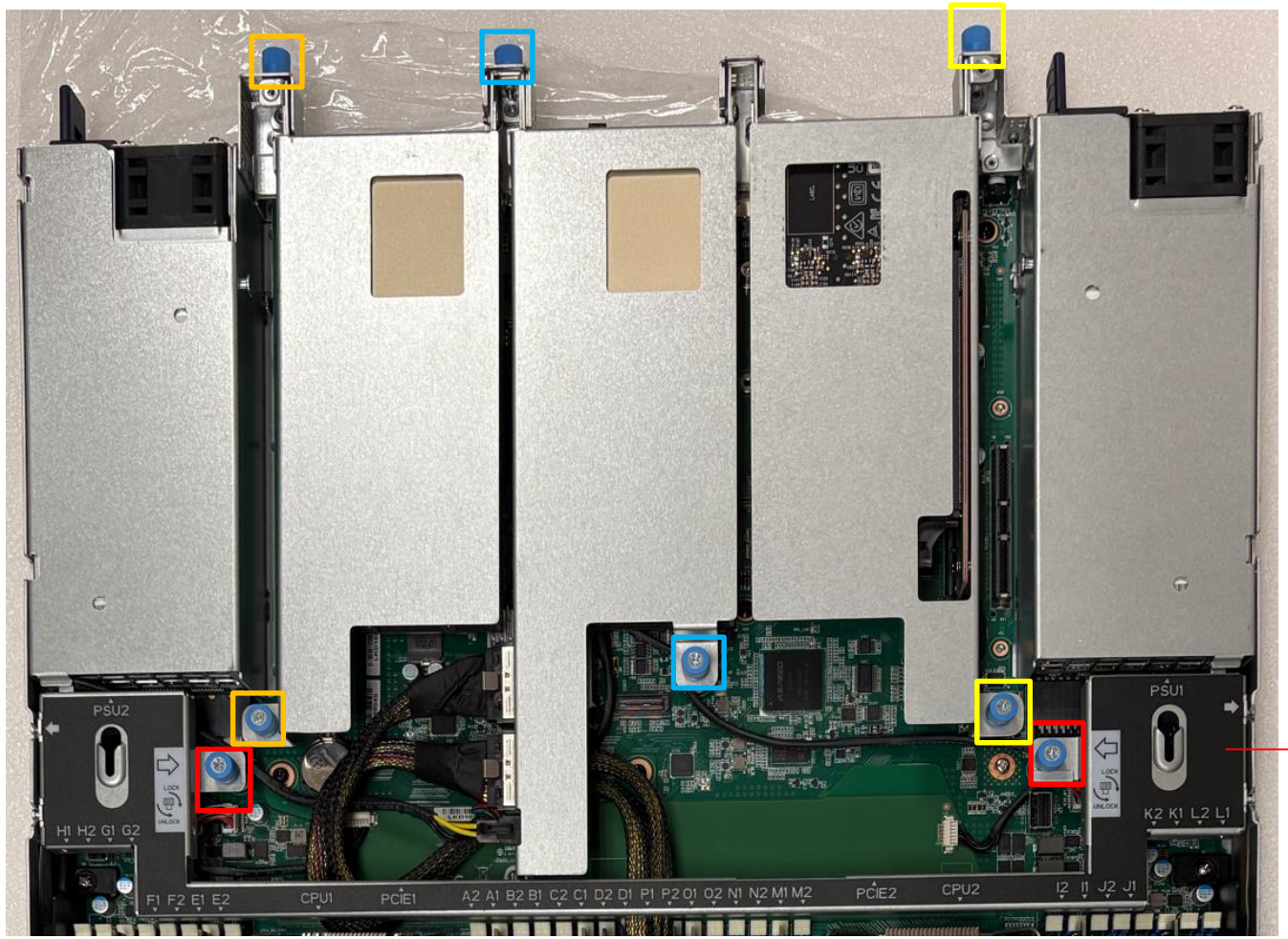
- Step #2 Unlock the locker and push down blue button, slightly pull up the locker handler and open top cover.





Server Rear Side [3/6]- Remove PCIe Cage

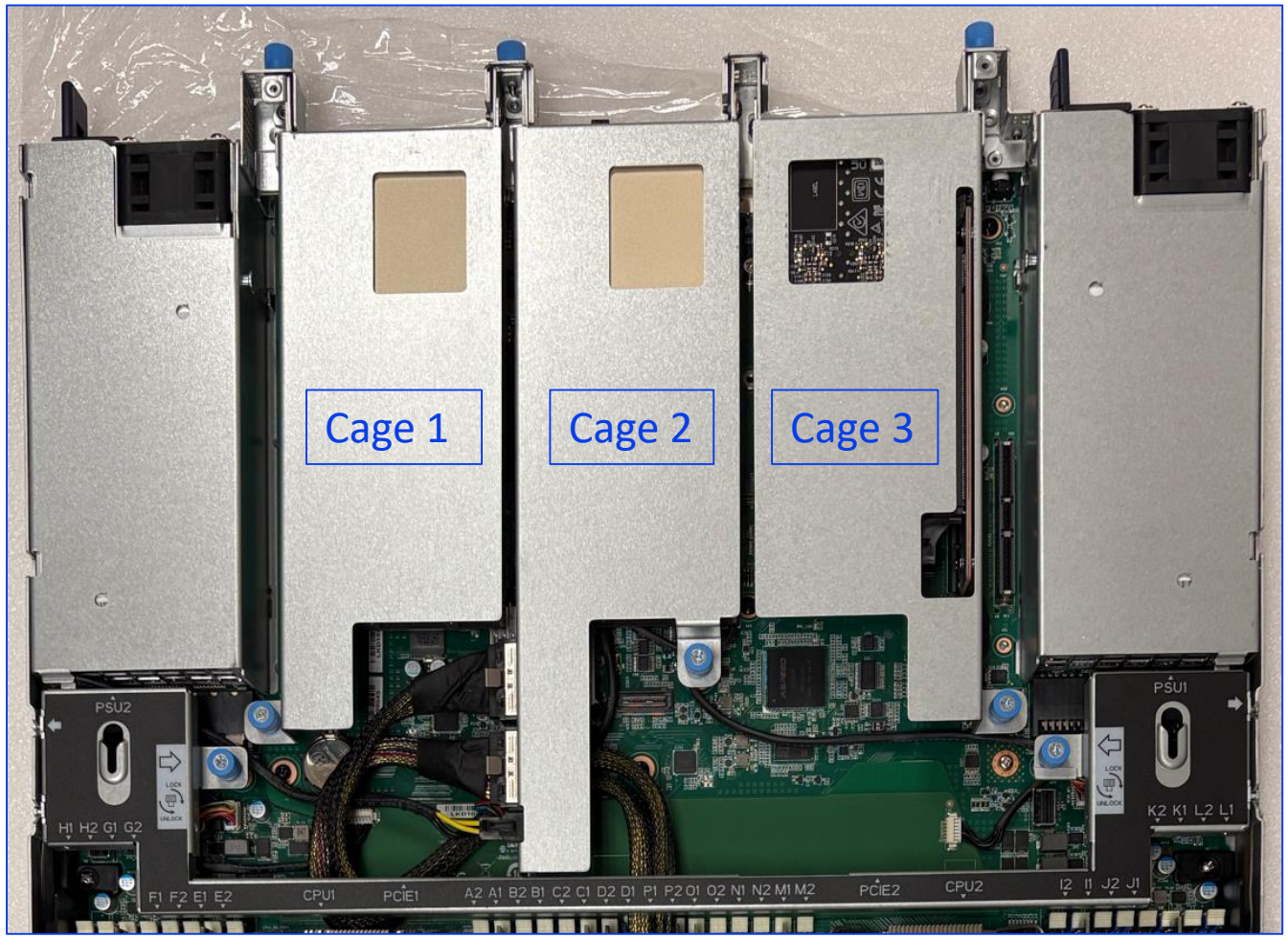
❑ Step #3 Loose screws on following positions and remove the cage fixer.



Cage fixer

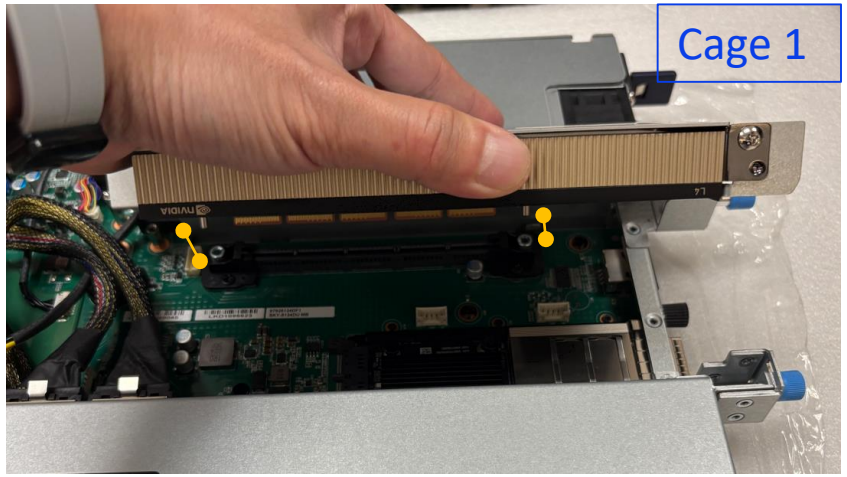
Server Rear Side [3/6]- Remove PCIe Cage

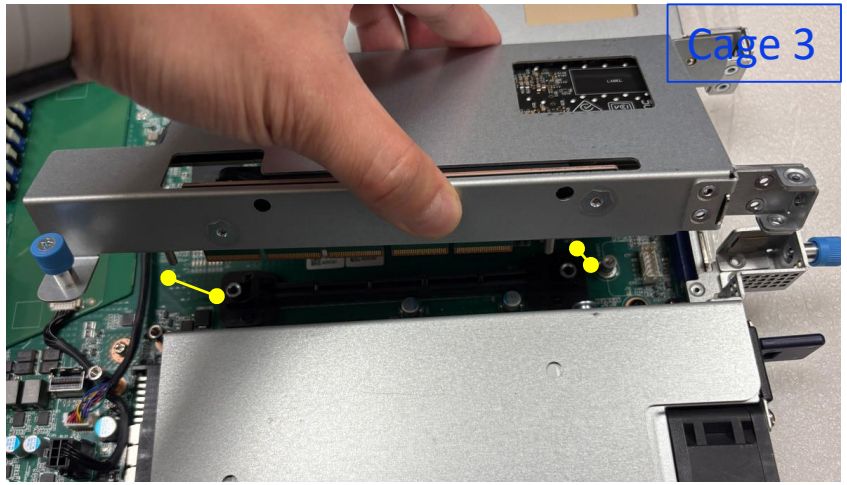
- Step #4 Use both hand to pull up the cage at same time, once a cage.

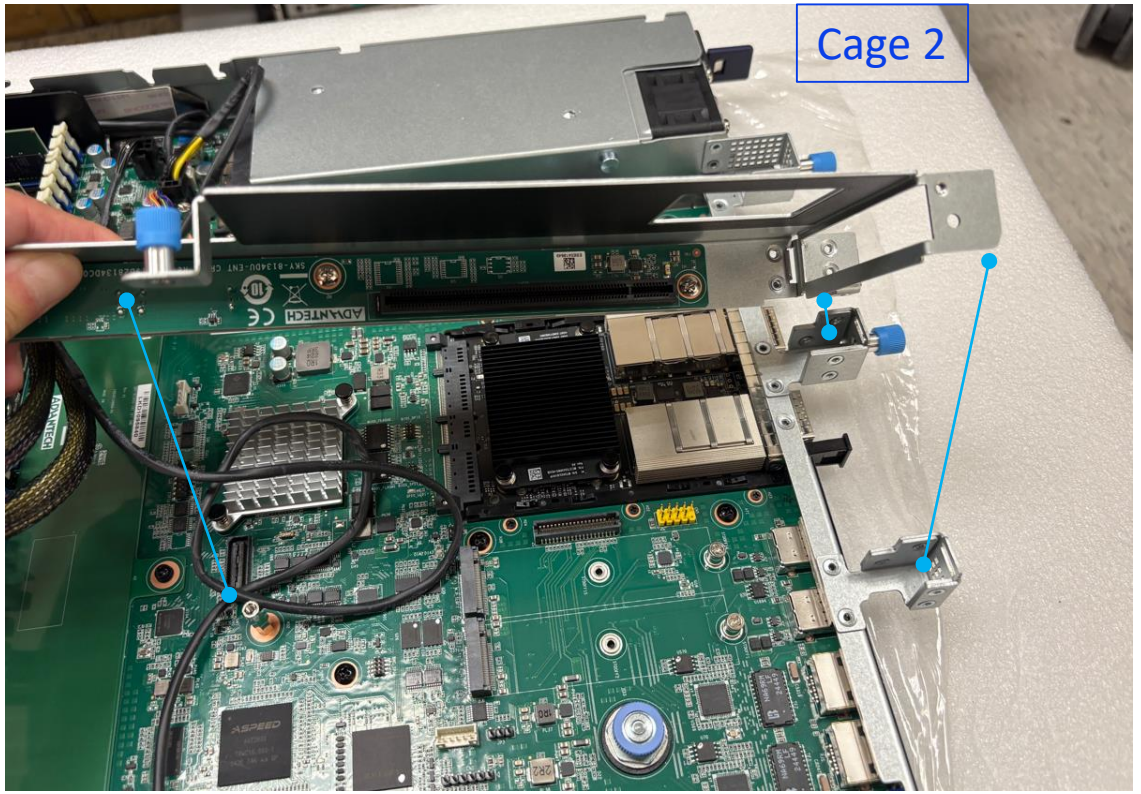


Server Rear Side [4/6]- Install PCIe Cage

❑ Step #5 Align PCIe golden finger to connector, be carefully to push down then.



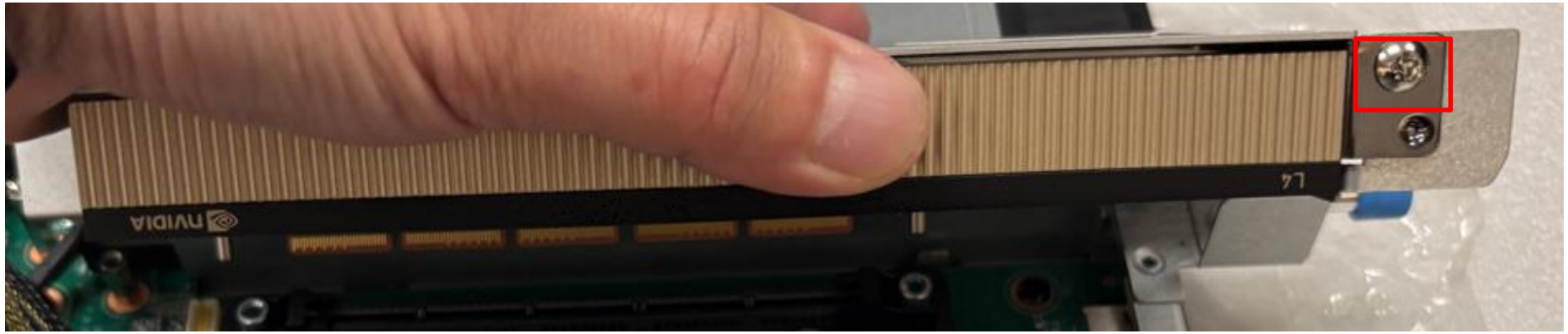




Server Rear Side [5/6]- Insert PCIe card

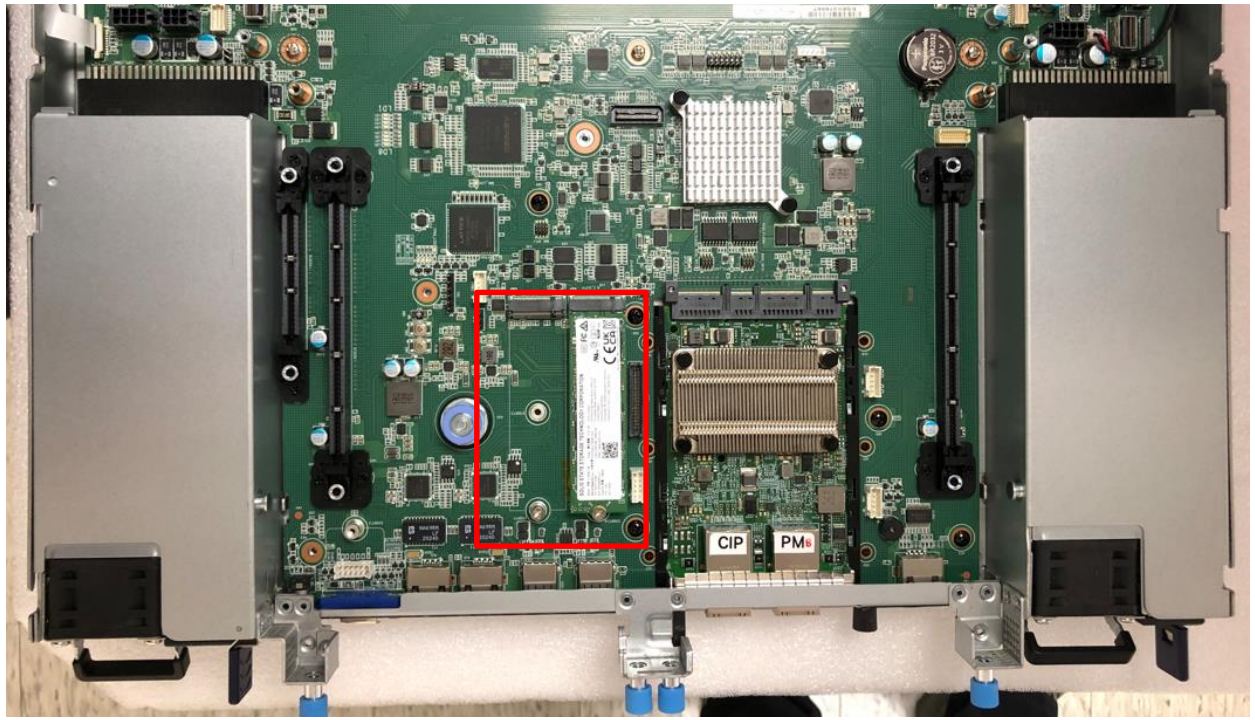
- Step #1 Loose the screw and remove PCIe dummy

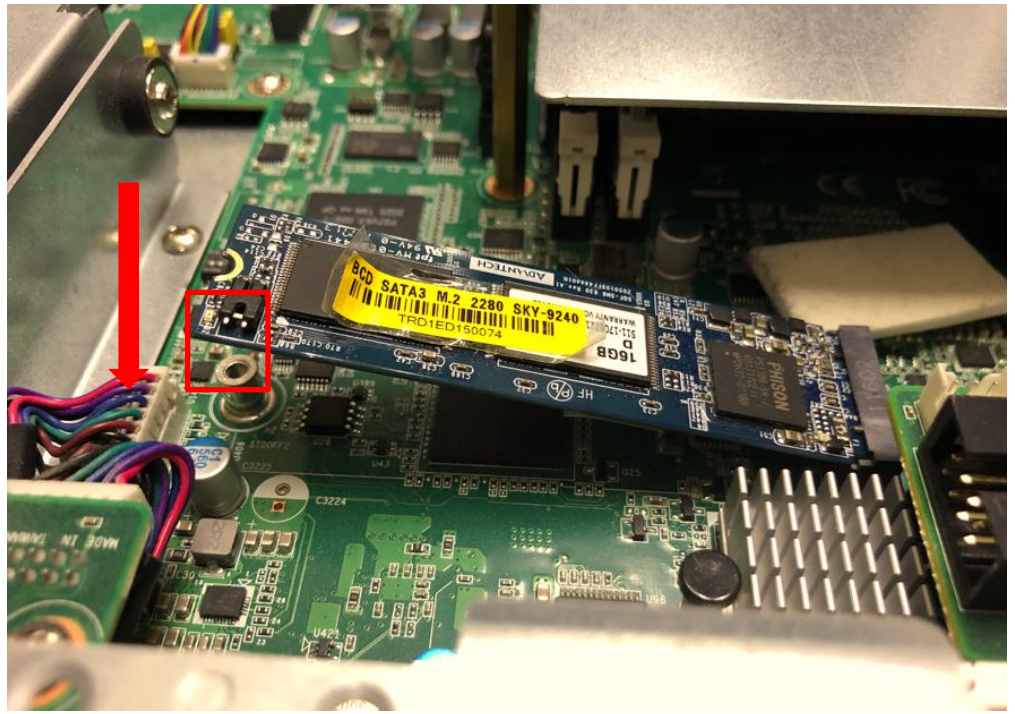
- Step #2 Insert PCIe card and tight up the screw



Server Rear Side [6/6]-Storage M.2

- Insert 2280 M.2 storage, push down and screw it up

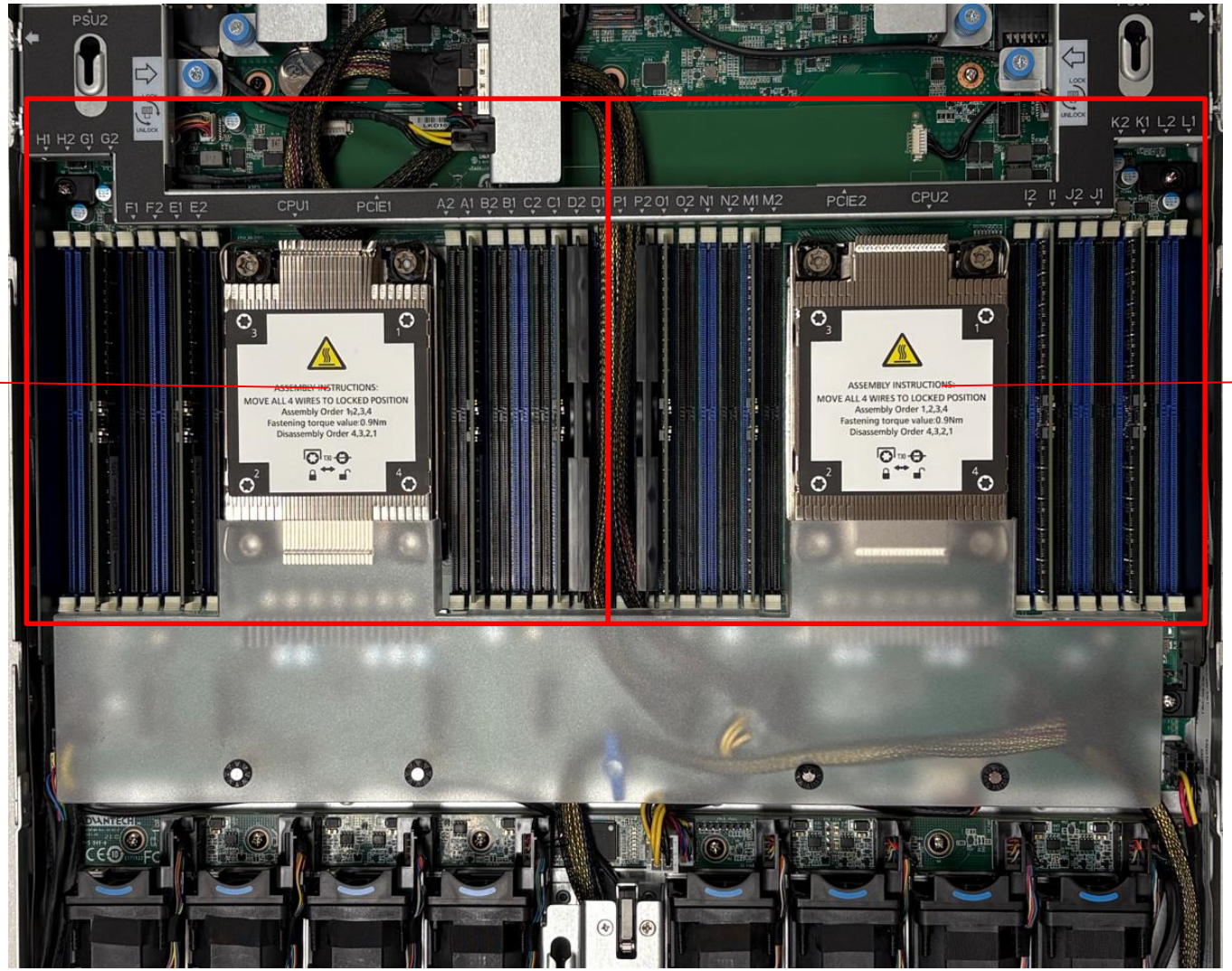




DIMMs Population [1/4]- Notes

DIMMs A1~H2 are for CPU 0, I1 ~ P2 are for CPU 1.

CPU 0



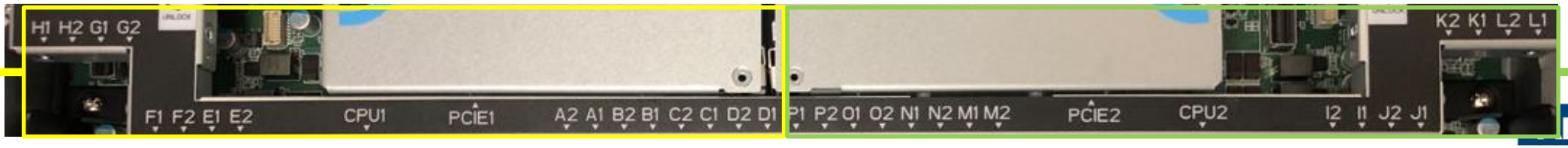
CPU 1

DIMMs Population [1/4]- Notes

Refer table below to populate DIMMs.

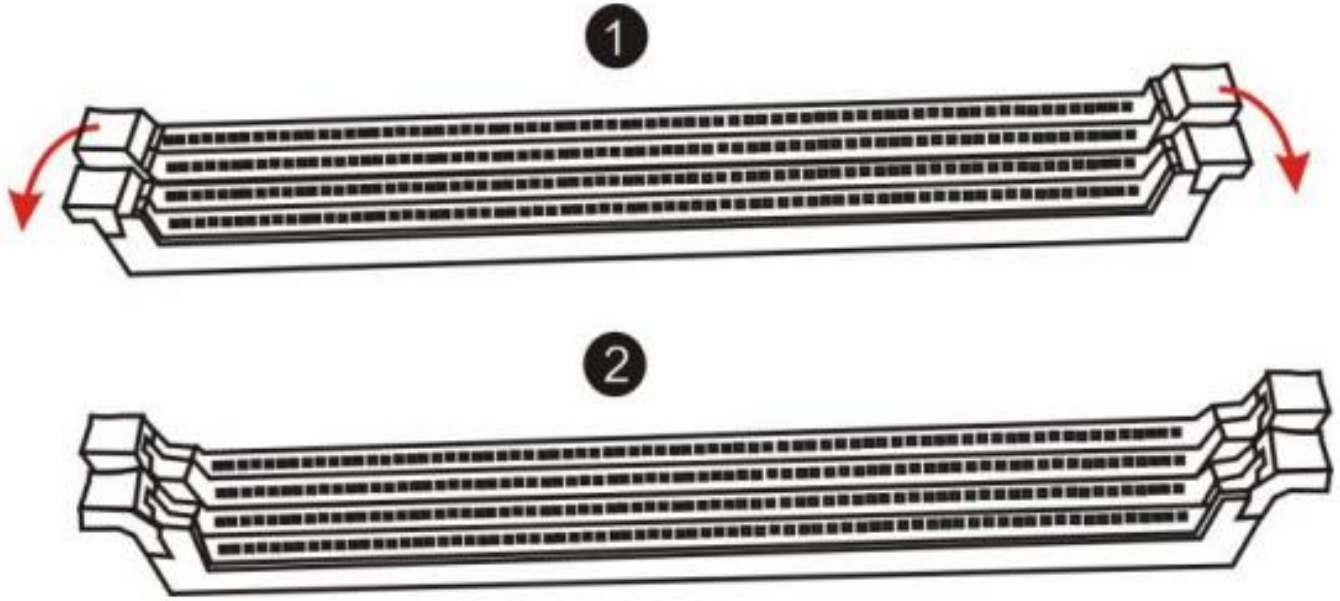
iMC#	iMC3				iMC2					iMC0				iMC1			
	Chan 1 (7/H)		Chan 0 (6/G)		Chan 1 (5/F)		Chan 0 (4/E)			Chan 0 (0/A)		Chan 1 (1/B)		Chan 0 (2/C)		Chan 1 (3/D)	
DDR5	H1	H2	G1	G2	F1	F2	E1	E2		A2	A1	B2	B1	C2	C1	D2	D1
	P1	P2	O1	O2	N1	N2	M1	M2		I2	I1	J2	J1	K2	K1	L2	L1
	Slot0	Slot1	Slot0	Slot1	Slot0	Slot1	Slot0	Slot1		Slot1	Slot0	Slot1	Slot0	Slot1	Slot0	Slot1	Slot0
1+0											DDR5						
							DDR5										
													DDR5				
					DDR5												
2+0			DDR5								DDR5						
							DDR5								DDR5		
4+0			DDR5				DDR5				DDR5				DDR5		
6+0			DDR5		DDR5		DDR5				DDR5				DDR5		DDR5
	DDR5		DDR5				DDR5				DDR5		DDR5		DDR5		
	DDR5				DDR5		DDR5						DDR5		DDR5		DDR5
	DDR5		DDR5		DDR5						DDR5		DDR5				DDR5
8+0	DDR5		DDR5		DDR5		DDR5				DDR5		DDR5		DDR5		DDR5
12+0	DDR5		DDR5	DDR5	DDR5		DDR5	DDR5		DDR5	DDR5		DDR5	DDR5	DDR5		DDR5
	DDR5	DDR5	DDR5		DDR5	DDR5	DDR5				DDR5	DDR5	DDR5		DDR5	DDR5	DDR5
16+0	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5		DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5	DDR5

CPU



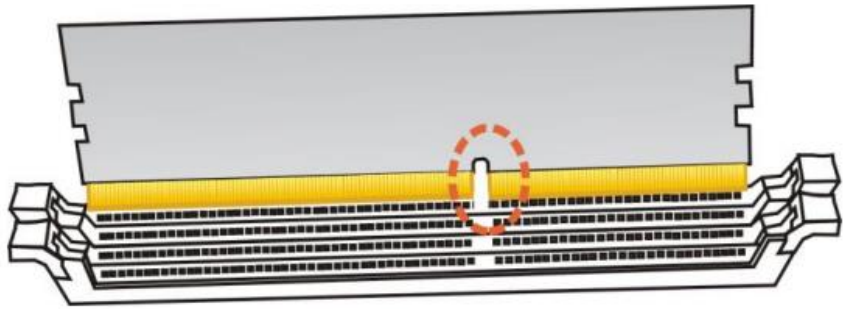
DIMMs Population [2/4]- Opening DIMM latches

❑ Step#1 – Open the latches on the left and right sides of the DIMMs by turning it outwards as indicated by the arrows below:

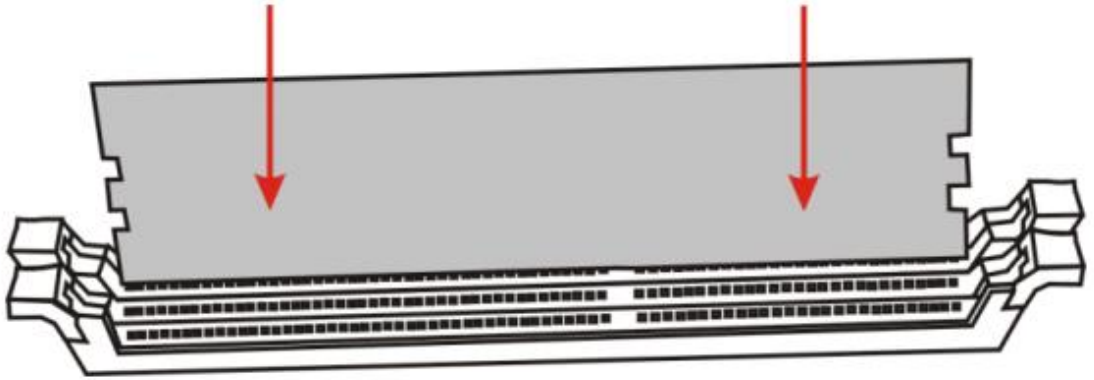


DIMMs Population [3/4]- DIMM Key Alignment

- Step#2 – Select DIMM orientation so that the keys in the DIMM module and socket match



- Step#3 – Insert the DIMM from the top using the guide rails on the left and right of the DIMM sockets



DIMMs Population [4/4]- fixing DIMM in the Socket

❑ Step#4 – Put your thumbs near the right and left end of the DIMM and press down the DIMM evenly until the white latches fully close with a click

Access the device via Console

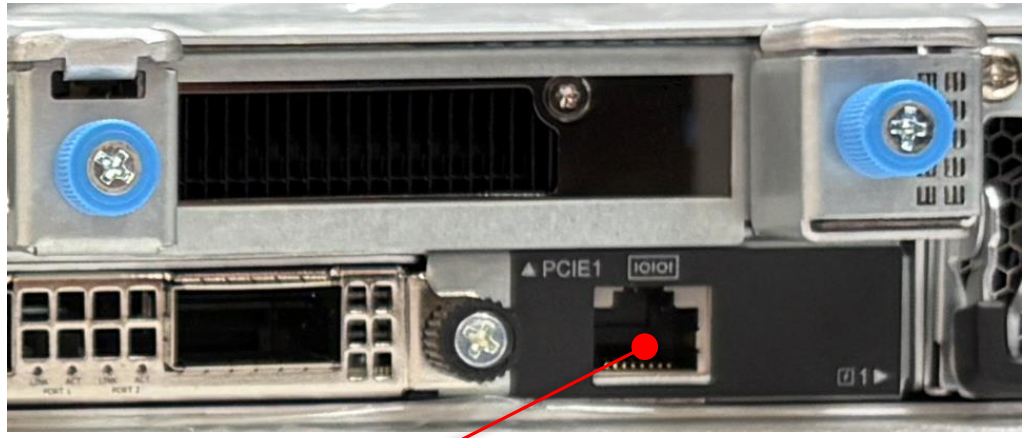
- Step#1 – Power on the device
  - Prerequisite:
    - ✓ Get AC 100-240V @ 50-60Hz, full range
  - Device will boot:
    - ✓ Correct behavior: you can hear FAN rotating in maximum speed for a while then down and also the Power LEDs should light up in blue color

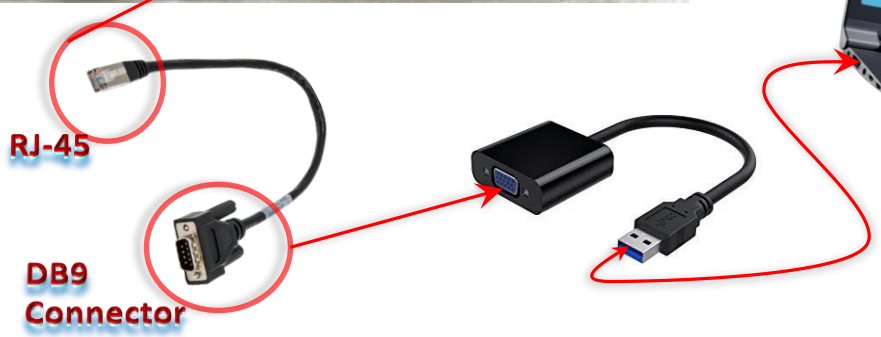
Picture depicted how to plug in the PSU cable

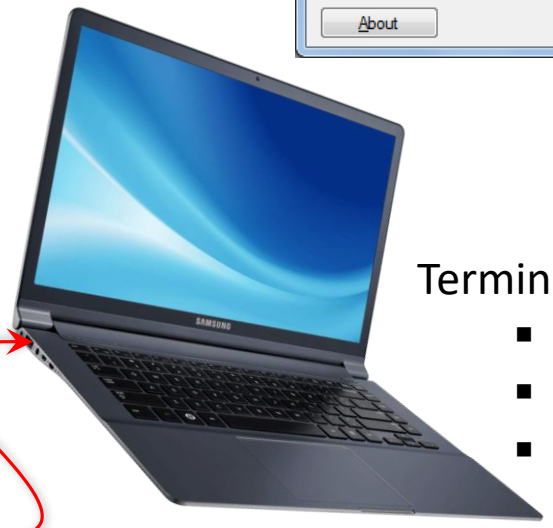
Picture depicted the light color while device booting

Access the device via Console

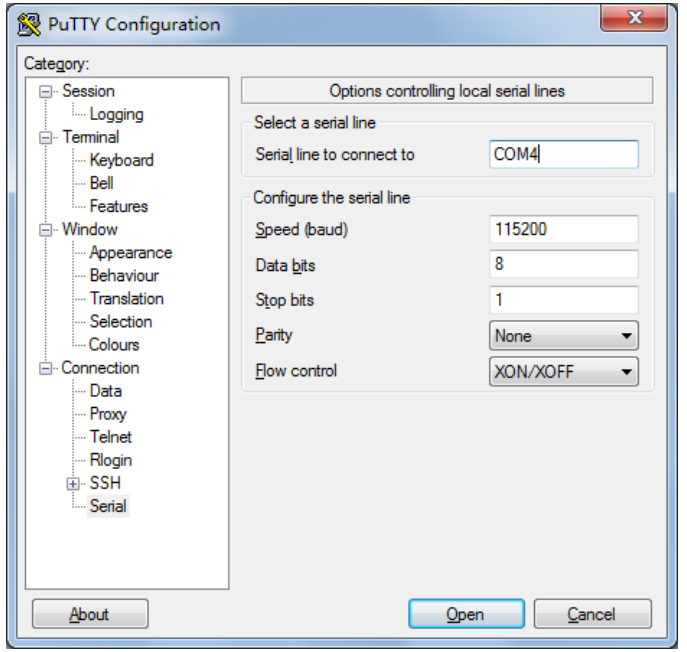
- Step#2 – Access the device
  - Prerequisite:
    - ✓ Console cable and PC + Terminal
  - Connect the PC to the server console







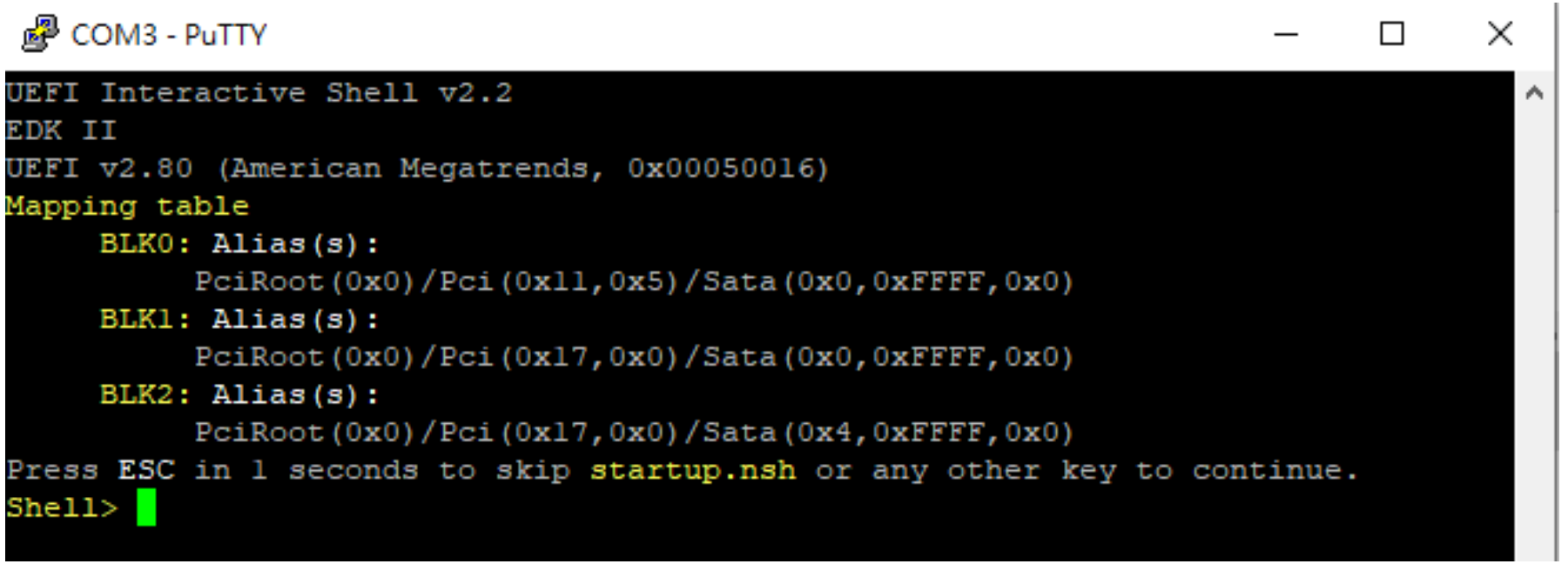
Terminal settings



Terminal Setting:

- Baud rate: 115200
- Data bits : 8
- Stop bits: 1

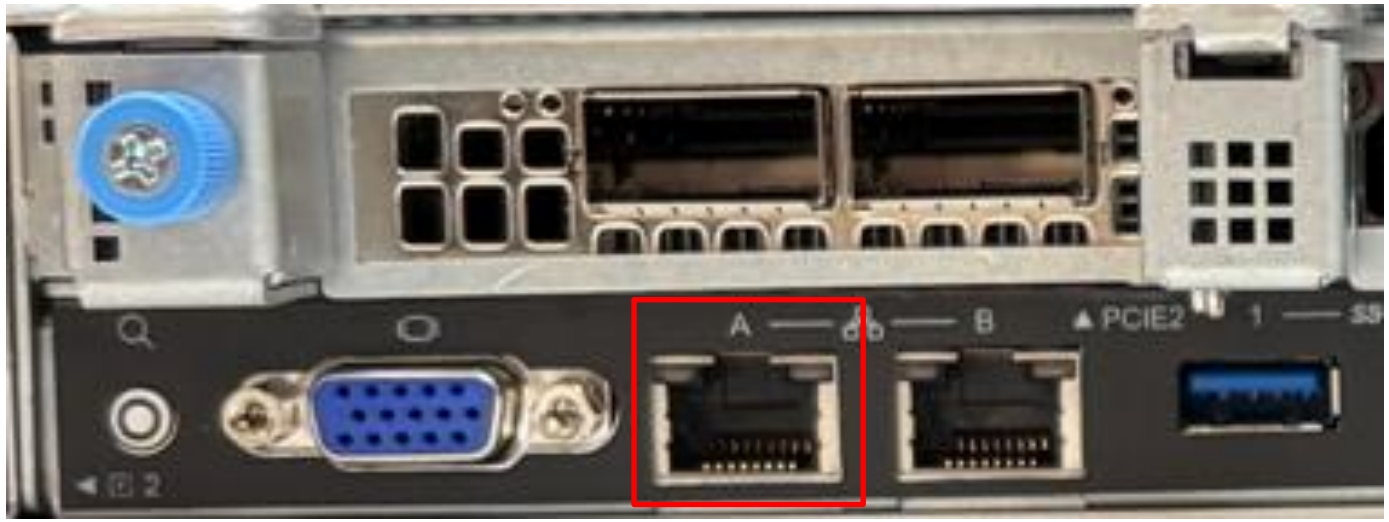
Access the device via Console



Picture depicted successfully server access via console

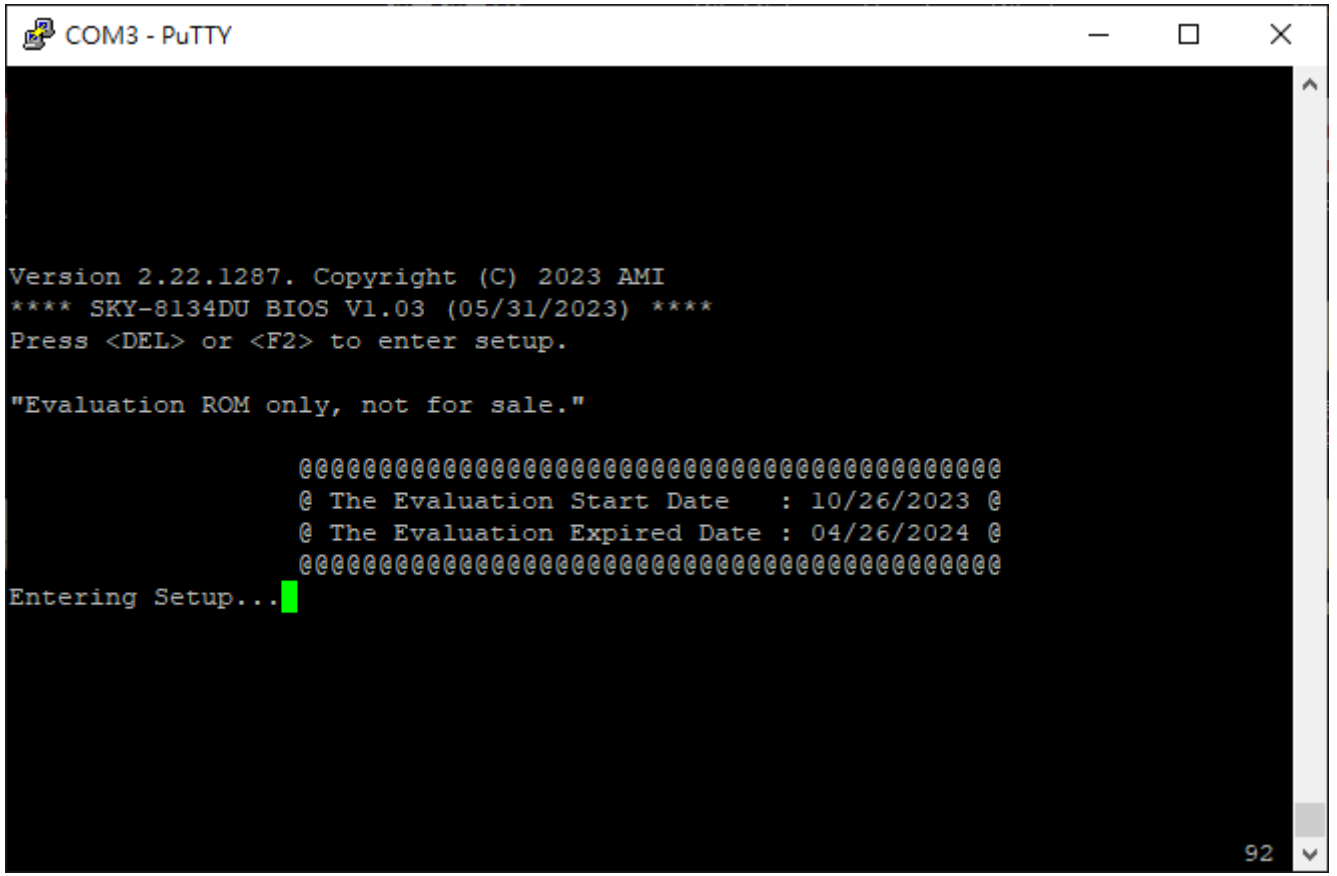
Web UI access

- In order to access the Web UI, we need to configure the IP address. In this part, we will describe how to set up Web UI IP address via BIOS



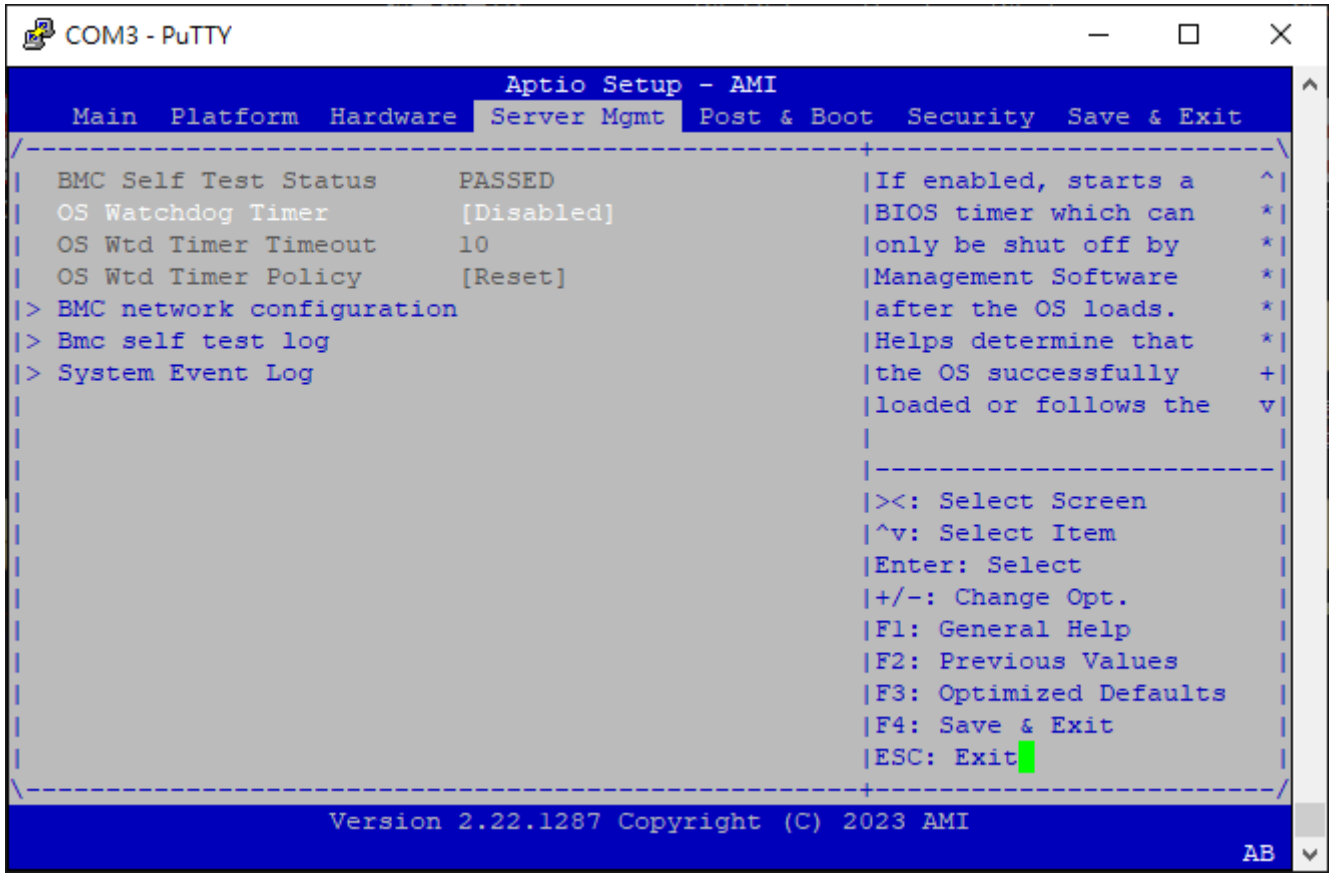
WebUI [1/4]- Configure BMC IP from BIOS

- Step#1- Press [Delete] entering BIOS setup menu



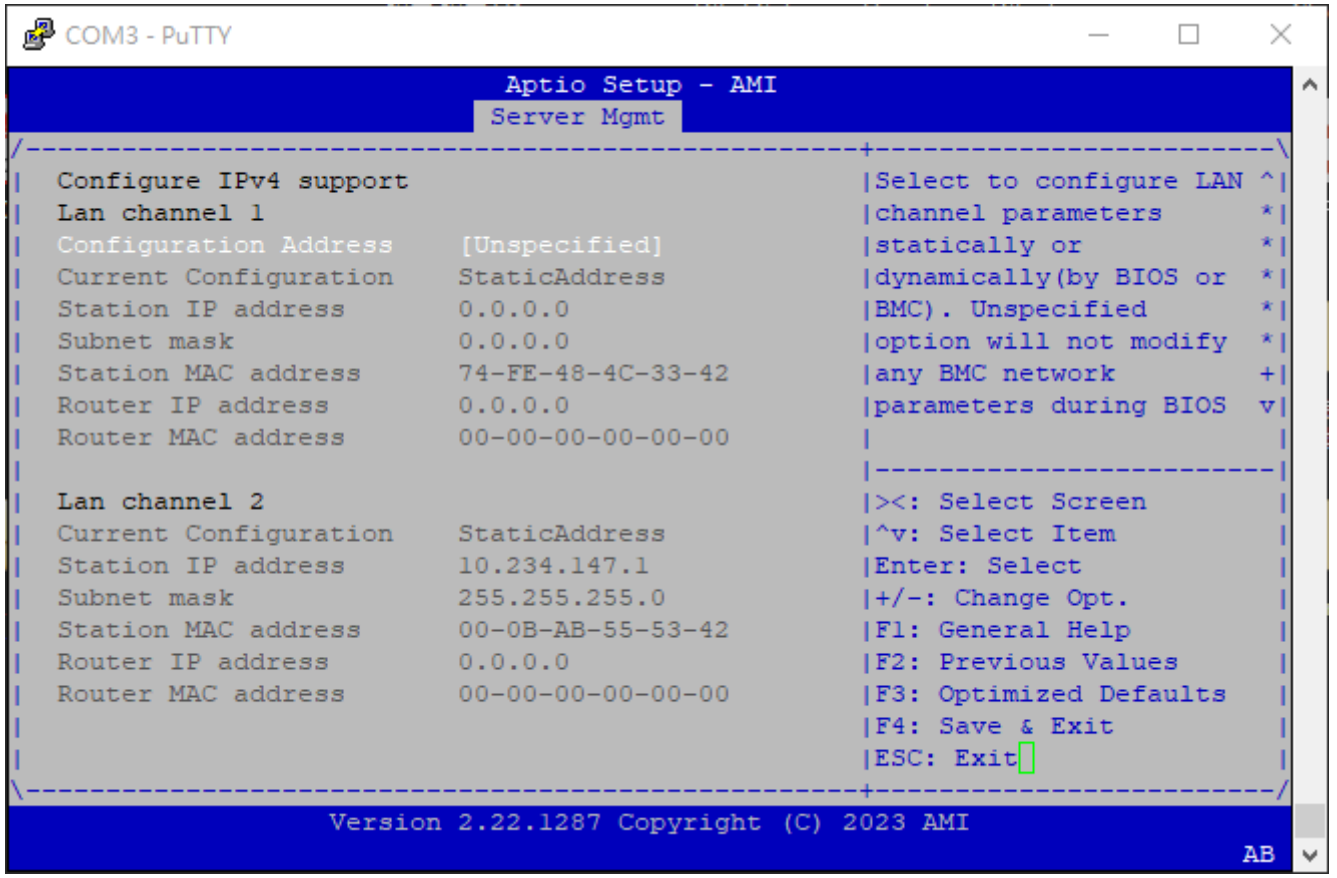
WebUI [2/4]- Configure BMC IP from BIOS

- Step#2- Select "**Server Mgmt**" page.



WebUI [3/4]- Configure BMC IP from BIOS

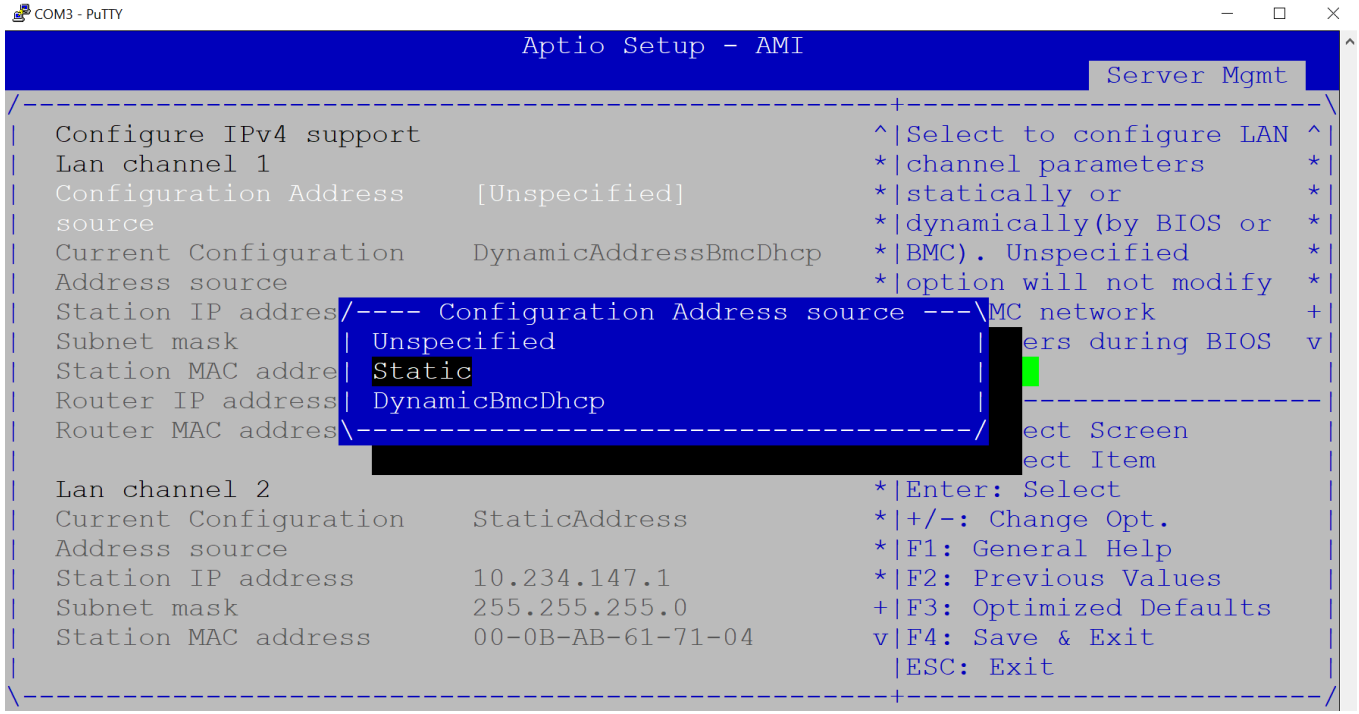
- Step#3- Choose "**BMC network configuration**"



WebUI [4/4]- Configure BMC IP from BIOS

- Step#4- Set "**Configuration Address**" -> "**Static**", and then **key in the IP address and subnet mask**.

*You could also choose DHCP as well to obtain an IP address from your DHCP server.



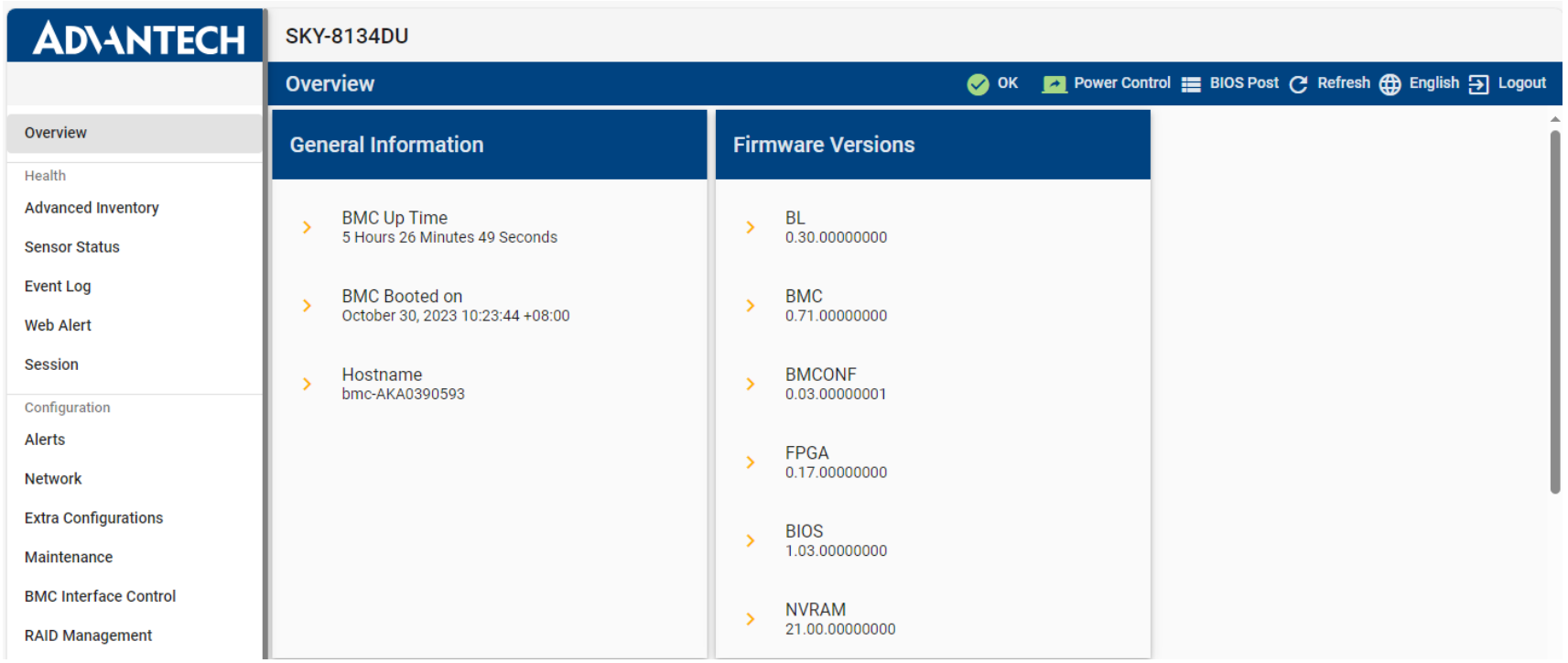
- Step#5- "**Save and Exit**" -> "**Save Changes and Reset**".
- Step#6- Repeat Step#1 ~ Step#3 to check the BMC IP address.

Web UI access from browser

After completing the steps above (Web UI IP configured via either BIOS or IPMI commands), open your favorite browser the enter the Web UI IP as below: https://BMCIP

The default login credentials:

- User: administrator
- Password: advantech



Node Explorer User Manual
https://www.advantech.com/support/details/manual?id=1-1MU1KB1

Go Together,

We Go Far and Grow Big