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Supermicro MI300X GPU Service Specialist (SMI300XS) Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

Which two situations could occur if you forcefully shift the release lever without first unlocking the red lock?(Choose 2 answers.)

- A. The power supply unit can no longer be secured into the tray.
- B. All the answers are correct.
- C. You could permanently damage the lock on the power supply unit.
- D. The power supply unit will fail.

Answer: C,D

Explanation:

For Supermicro MI300X GPU systems, removing the power supply unit (PSU) improperly can lead to serious issues.

* Why the red lock exists?

* The red locking mechanism ensures that the PSU is properly secured in the system.

* Before disengaging the PSU, the red lock must first be unlocked to avoid damage.

* If you forcefully shift the release lever without unlocking the red lock:

* B: The power supply unit will fail# If the PSU is removed improperly, it can cause internal damage to power connectors, resulting in PSU failure or improper functioning.

* C: You could permanently damage the lock on the power supply unit# The locking mechanism is designed for smooth disengagement. Forcefully shifting the lever can break or warp the lock, making it impossible to secure the PSU back in place.

* Incorrect Answers Explained:

* A (All answers are correct)# This is incorrect because not all answers are valid.

* D (The PSU can no longer be secured into the tray)# This happens only if the lock is damaged, which is covered under option C.

Supermicro's official documentation clearly states that unlocking the red lock first is a critical step before removing or replacing the PSU.

NEW QUESTION # 12

When installing the NVMe backplane back into the motherboard tray, what cables need to be reconnected?

- A. SATA cable, power cables, MCIO cables, 54-volt power cable
- B. Only the SATA cable needs to be reconnected
- C. Only the power cables need to be reconnected
- D. Only the MCIO cables need to be reconnected

Answer: A

Explanation:

When reinstalling the NVMe backplane, several critical cables must be properly reconnected to ensure the system functions correctly.

Required Connections:

* SATA Cable# Some NVMe backplanes also support SATA drives, requiring SATA connectivity.

* Power Cables# The NVMe backplane requires direct power to enable SSD operations.

* MCIO Cables# These cables provide high-speed data connectivity between the NVMe drives and the motherboard.

* 54-Volt Power Cable# This supplies direct power to the NVMe backplane for optimal performance and stability.

Why other options are incorrect?

* B (Only SATA cable)# NVMe backplanes use PCIe-based storage. While SATA connections may exist, they are not the only required cables.

* C (Only MCIO cables)# While MCIO cables are necessary for PCIe-based NVMe drives, power cables must also be reconnected for the system to function.

* D (Only power cables)# Data communication would fail without MCIO connections, rendering the system unable to detect NVMe drives.

Official Documentation Reference:

* Supermicro NVMe Service Guide and AS-8125GS-TNMR2 Installation Manual emphasize the correct reinstallation of power and data cables to avoid hardware malfunctions.

NEW QUESTION # 13

Before disconnecting the cables from the NVMe backplane, what precaution should be taken?

- A. Disconnect the power supply first.
- B. Shake the system to loosen cables before disconnecting them.
- C. Randomly disconnect cables and reconnect them later.
- D. Map the cables so that you can reconnect them to the proper port location later on.

Answer: D

Explanation:

Importance of Mapping Cables Before Disconnection

The NVMe backplane in Supermicro MI300X systems uses high-speed PCIe lanes and power distribution lines that must be properly mapped before disconnection.

Why Should Cables Be Mapped?

- * Prevents misconnection during reassembly
 - * The system uses multiple identical-looking cables (MCIO, NVMe, and power cables).
 - * Misplacing a cable in the wrong port can cause boot failures, drive detection issues, and system instability.
 - * Reduces downtime for troubleshooting
 - * Without a mapped diagram or a picture, technicians may spend hours debugging misconnected cables, leading to delays in system restoration.
 - * Ensures proper airflow and cable management
 - * Incorrectly routed cables can block airflow, leading to overheating and thermal throttling of GPUs or storage devices.
- Correct Process for Cable Mapping
- * Take high-resolution pictures before disconnecting cables.
 - * Label each cable and its corresponding port using numbered stickers or colored tags.
 - * Create a simple mapping diagram showing which cable connects to which port.
 - * Double-check the mapping before removal.
- Why Other Options Are Incorrect?
- * B (Disconnect the power supply first) # While powering down is important, mapping cables is the primary precaution before disconnection.
 - * C (Randomly disconnect cables) # Leads to confusion and potential system failures due to incorrect reconnections.
 - * D (Shake the system to loosen cables) # NEVER shake a server, as this can damage internal components and misalign connectors.
- Official Documentation Reference:
- * Supermicro NVMe Installation Guide states that proper cable mapping is required before NVMe backplane disconnection to avoid misplacement.

NEW QUESTION # 14

Exhibit:



Where are the 2 screws located before you can remove the air shroud?

- A. On both sides of the GPU tray
- B. On top of the motherboard tray
- C. On both sides of the PCIe tray
- **D. On both sides of the motherboard tray**

Answer: D

Explanation:

The air shroud is a crucial component in the Supermicro MI300X GPU system, designed to direct airflow efficiently over high-performance GPUs and CPUs. Before removing the air shroud, two screws must be removed, and they are located on both sides of the motherboard tray.

Why are these screws important?

- * They secure the air shroud to the chassis, preventing unwanted movement.
- * Removing them ensures the air shroud can be lifted safely, without damaging cooling pathways.
- * They prevent vibrations from GPU cooling fans from dislodging the shroud over time.

Incorrect Answers Explained:

- * A (On top of the motherboard tray)# Incorrect, as the screws are not mounted on top but on the sides of the motherboard tray.
- * C (On both sides of the PCIe tray)# The PCIe tray does not secure the air shroud.
- * D (On both sides of the GPU tray)# The GPU tray does not directly hold the air shroud in place.

Official Documentation Reference:

- * Supermicro AS-8125GS-TNMR2 Cooling System Guide states that the air shroud is secured by two screws on both sides of the motherboard tray.

NEW QUESTION # 15

In order to remove the midplane from the AS-8125GS-TNMR2 system, and after you remove all the PSUs, you will need to disengage 3 trays. What is the correct order for disengagement?

- A. Disengage the GPU tray first, then the motherboard tray, and the PCIe tray last.
- B. Disengage the motherboard tray first, then the PCIe tray, and the GPU tray last.
- **C. Disengage the PCIe tray first, then the GPU tray, and the motherboard tray last.**
- D. Disengage the PCIe tray first, then the motherboard tray, and the GPU tray last.

Answer: C

Explanation:

The correct order for removing trays before midplane removal is:

- * Disengage the PCIe tray first
- * This tray must be removed first because it provides access to the underlying system components.
- * Remove the GPU tray
- * The GPU tray sits between the PCIe and motherboard trays and must be disengaged after PCIe components are cleared.
- * Remove the motherboard tray last
- * The motherboard tray is the final component before midplane removal.
- * Removing it last ensures full access to the system components without obstructing critical connections.

Why other options are incorrect?

- * B (Motherboard before GPU tray)# The motherboard tray must be removed last to avoid disconnecting system-critical connections too early.
- * C (Motherboard tray first)# Removing the motherboard first risks damaging PCIe and GPU components.
- * D (GPU tray first)# The GPU tray is dependent on the PCIe tray being removed first, making this order incorrect.

Official Documentation Reference:

- * Supermicro AS-8125GS-TNMR2 System Removal Guide outlines the correct order for tray disengagement before midplane removal.

NEW QUESTION # 16

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