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## NVIDIA AI Infrastructure Sample Questions (Q118-Q123):

### NEW QUESTION # 118

You are setting up a multi-node AI cluster with NVIDIA GPUs and InfiniBand for inter-node communication. You need to ensure the InfiniBand network is functioning optimally for GPU-accelerated workloads. What steps would you take to validate the InfiniBand installation and performance?

- A. Configure a static IP address on the InfiniBand interfaces, and rely on the operating system's network diagnostics.
- **B. Run 'ibstat' to check InfiniBand interface status, use 'ibping' and 'ibperf' to test latency and bandwidth, and verify correct NCCL configuration (e.g., during a distributed training run).**
- C. Verify the InfiniBand drivers are installed and then run a standard TCP benchmark between the nodes.
- D. Run 'ibstat' to check InfiniBand interface status, use 'ping' to test connectivity, and rely on NCCL's internal checks during training.
- E. Use 'nvidia-smi' to monitor InfiniBand traffic, and rely on CUDA-aware MPI for communication validation.

**Answer: B**

Explanation:

'ibstat' verifies interface status. 'ibping' and 'ibperf' are InfiniBand-specific tools for latency and bandwidth testing. NCCL (NVIDIA Collective Communications Library) is critical for distributed training, and provides valuable diagnostic information. The other options are either incomplete or rely on tools not specific to InfiniBand.

### NEW QUESTION # 119

You are installing four NVIDIA A100 GPUs into a server designed for AI training. The server motherboard has multiple PCIe Gen4 x16 slots. However, the server's power supply unit (PSU) only has three 8-pin PCIe power connectors available. What is the BEST course of action to ensure all GPUs receive adequate power?

- A. Use a PCIe power splitter cable on one of the 8-pin connectors to power two GPUs.
- B. Connect the GPUs using the motherboard's internal SATA power connectors.
- C. Replace the existing PSU with a higher wattage PSU that has at least four 8-pin PCIe power connectors.
- D. Install only three GPUs and leave the fourth unpowered.
- E. Underclock the GPUs significantly to reduce their power consumption below the available PSU capacity.

**Answer: C**

Explanation:

Using a splitter can overload the original connector and cause instability or damage. Leaving a GPU unpowered defeats the purpose. SATA connectors are not designed for the high power requirements of GPUs. Underclocking might work, but is not a reliable long-term solution. Replacing the PSU is the safest and most reliable solution.

### NEW QUESTION # 120

A network engineer is tasked with configuring the management, storage, and compute networks for a new DGX BasePOD deployment. Which statement best describes the network segmentation required for optimal operation?

- A. Four networks: compute, storage, out-of-band, and management.
- B. A single VLAN for all types of network traffic.
- C. Two networks: one for management and one for compute.

**Answer: A**

Explanation:

NVIDIA DGX BasePOD and SuperPOD reference architectures mandate strict network segmentation to ensure performance, security, and manageability.

\* Compute Network: Typically InfiniBand (or high-speed Spectrum-X Ethernet), dedicated solely to GPU-to-GPU collective communications (NCCL).

\* Storage Network: A high-bandwidth Ethernet or InfiniBand fabric specifically for data ingestion and model checkpointing, often utilizing GPUDirect Storage (GDS).

\* Management Network: Used for standard cluster administration, SSH, and software orchestration (e.g., Bright Cluster Manager or Kubernetes control plane traffic).

\* Out-of-Band (OOB) Network: A physically isolated network connected to the BMC ports for low-level system monitoring, power control, and remote console access, even when the OS is down.

A single VLAN (Option A) would cause massive congestion during training, as storage and management traffic would compete with high-frequency compute packets. The four-network model ensures that a "storm" in the storage fabric does not prevent an administrator from accessing the system via the management or OOB networks, which is essential for maintaining an AI Factory at scale.

### NEW QUESTION # 121

You have a BlueField-2 DPU running Ubuntu. After upgrading the MLNX OFED drivers, the DPU fails to boot properly. You are presented with a GRUB prompt. Which sequence of commands is most likely to help you boot into a working kernel?

- A.

```
set root=(hd0,gpt2)
linux /boot/vmlinuz-$(uname -r) root=/dev/nvme0n1p2 ro
initrd /boot/initrd.img-$(uname -r)
boot
```

- B.

```
set root=(hd0,gpt2)
normal
boot
```

- C. 

```
set root=(hd0,gpt2)
linux /boot/vmlinuz-$(uname -r) root=/dev/sda2 ro
initrd /boot/initrd.img-$(uname -r)
boot
```
- D. 

```
set root=(hd0,gpt2)
linux /boot/vmlinuz-old root=/dev/sda2 ro
initrd /boot/initrd.img-old
boot
```
- E. 

```
set root=(hd0,gpt2)
linux /vmlinuz root=/dev/sda2 ro
initrd /initrd.img
boot
```

**Answer: D**

Explanation:

When a boot fails after a driver upgrade, it's often because the new kernel/initrd is faulty. The most likely solution is to boot into the previous, known-good kernel. Option C attempts this by specifying '-old' in the kernel and initrd filenames, attempting to load the older, hopefully functional, kernel. It assumes the root partition is /dev/sda2 but is booting an older kernel. Option A uses '\$(uname -r)' which likely resolves to the problematic kernel that caused the failure. Option B lacks version information and may also load a broken kernel. Option D uses /dev/nvme0n1p2, which might be incorrect for the root partition on the BlueField. Option E will try to load grub normally, which might fail again.

#### NEW QUESTION # 122

An engineer is tasked with configuring Out-of-Band management for a DGX BasePOD deployment. Which network design will best ensure secure and reliable Out-of-Band management operations?

- A. Use a single VLAN for both Out-of-Band management and compute fabric to simplify network design.
- B. Configure Out-of-Band management interfaces to be accessible from any subnet within the data center for maximum flexibility.
- C. Connect Out-of-Band management ports to the same switch as user traffic for easier troubleshooting.
- D. Place all BMC and management interfaces on an isolated Out-of-Band network with access restricted by firewall rules.

**Answer: D**

Explanation:

The best design is to place all BMC and management interfaces on an isolated Out-of-Band network with access restricted by firewall rules. Out-of-Band management provides administrative access for hardware monitoring, remote console, power operations, firmware maintenance, and recovery actions even when the host operating system or production network is unavailable. Because BMC interfaces are powerful administrative control points, they should not share the same network as user traffic or the high-performance compute fabric. NVIDIA DGX guidance recommends restricting IPMI or BMC ports to an isolated, dedicated management network, using a separate firewalled subnet, or using a separate VLAN for BMC traffic when a dedicated network is unavailable. Allowing access from any subnet increases the attack surface and weakens operational security. Sharing the same switch or VLAN as production traffic can also expose management interfaces to congestion or unauthorized access. A dedicated OOB network improves security, reliability, and serviceability for DGX BasePOD operations.

#### NEW QUESTION # 123

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














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