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## NVIDIA NCP-AII NVIDIA AI Infrastructure

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## NVIDIA AI Infrastructure Sample Questions (Q13-Q18):

### NEW QUESTION # 13

You observe high latency and low bandwidth between two GPUs connected via an NVLink switch. You suspect a problem with the NVLink link itself. Which of the following methods would be the most effective in diagnosing the physical NVLink link health?

- A. Running a CUDA-aware memory bandwidth test specifically designed for NVLink.
- B. Using 'iperf3' to measure network throughput between the servers.
- C. Using 'ping' to check network connectivity between the servers.
- D. Examining system logs for NVLink-related error messages.
- E. Physically inspecting the NVLink cables for damage.

**Answer: A,D,E**

Explanation:

A CUDA-aware memory bandwidth test can specifically measure the NVLink link's performance. System logs can reveal hardware-level errors. Physical inspection can identify damaged cables. 'iperf3' and 'pings' are network-level tools and don't directly test the NVLink link. Checking for error messages in System Logs also helps identify potential issues related to the NVLink switch and the link connections.

### NEW QUESTION # 14

After upgrading the NGC CLI using 'pip install -upgrade nvidia-cli', some commands are no longer working as expected, producing errors related to missing modules. What is the most likely reason for this issue and how can you resolve it?

- A. The NGC CLI upgrade introduced breaking changes. Review the NGC CLI release notes and update your scripts accordingly.
- B. The host's operating system must be re-imaged.
- C. The upgrade process might have corrupted the NGC CLI installation. Reinstall the package using 'pip install -force-reinstall nvidia-cli'.
- D. The system's PATH variable has not been updated to reflect the new NGC CLI installation location. Update the PATH variable accordingly.
- E. The Python environment used by the NGC CLI might be broken or inconsistent. Create a new virtual environment and reinstall the NGC CLI in the new environment.

**Answer: A,E**

Explanation:

Breaking changes in the NGC CLI upgrade (B) are a possibility, requiring script updates. An inconsistent Python environment (C) can also cause issues after an upgrade. Reinstalling (A) or updating the PATH (D) might not resolve the issue if the environment itself is the problem. OS re-imaging is highly unnecessary (E).

### NEW QUESTION # 15

You are configuring a server with multiple GPUs for CUDA-aware MPI. Which environment variable is critical for ensuring proper GPU affinity, so that each MPI process uses the correct GPU?

- A. LD\_LIBRARY\_PATH
- B. CUDA\_DEVICE\_ORDER
- C. CUDA\_VISIBLE\_DEVICES
- D. MPI\_GPU\_SUPPORT
- E. CUDA\_LAUNCH\_BLOCKING-I

**Answer: C**

Explanation:

'CUDA\_VISIBLE\_DEVICES' is essential for GPU affinity. It allows you to specify which GPUs are visible to a particular process. Without it, all processes might try to use the same GPU, leading to performance bottlenecks. controls the order in which GPUs are

enumerated. specifies the path to shared libraries. is hypothetical. forces synchronous CUDA calls.

#### NEW QUESTION # 16

A customer reports that after installing an additional NVIDIA GPU into their existing AI server, they are experiencing IOMMU related errors during VM startup that leverage GPU pass-through. The error message indicates a problem with address translation. Which troubleshooting steps should be taken? (Select TWO)

- A. Ensure that IOMMUIJ is enabled in the BIOS/UEFI, and that the kernel command line includes (for Intel CPUs) or (for AMD CPUs).
- B. Reduce the amount of RAM allocated to the VM to avoid exceeding addressable memory limits.
- C. Disable IOMMUIJ in the BIOS/UEFI. This resolves the address translation conflicts.
- D. Update the motherboard BIOS/UEFI to the latest version, as newer versions often include improved IOMMUIJ support and bug fixes.
- E. Reinstall the NVIDIA drivers within the VM.

**Answer: A,D**

Explanation:

IOMMU errors often stem from incorrect configuration or outdated firmware. Disabling IOMMU is generally not recommended as it reduces security. Ensuring IOMMUIJ is enabled in the BIOS/UEFI and kernel command line is crucial. Updating the BIOS/IJEFI addresses potential bugs in IOMMU implementation. While memory allocation could be a factor, it is not the most likely immediate cause. Reinstalling drivers within the VM is less likely to resolve IOMMU-related errors.

#### NEW QUESTION # 17

You are tasked with automating the BlueField OS deployment process across a large number of SmartNICs. Which of the following methods is MOST suitable for this task?

- A. Creating a custom ISO image with the BlueField OS and booting each SmartNIC from a USB drive.
- B. Utilizing the 'dd' command to directly copy the image to each SmartNIC's flash memory.
- C. Utilizing a custom-built python script to flash each individual card, controlled from a central server. This method supports parallel flashing.
- D. Using a network boot (PXE) server to deploy the BlueField OS image over the network. This allows centralized management and scalability.
- E. Manually flashing each SmartNIC using the 'bfboot' utility on a workstation.

**Answer: D**

Explanation:

PXE boot allows for automated and scalable OS deployment over the network, making it the most suitable option for managing a large number of SmartNICs. Manually flashing or using USB drives is not practical at scale, and using 'dd' directly can be risky and error-prone without proper checks.

#### NEW QUESTION # 18

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