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## NVIDIA AI Infrastructure Sample Questions (Q49-Q54):

### NEW QUESTION # 49

You encounter an error during the BlueField OS flashing process using 'bfboot: 'ERROR: Could not detect a BlueField device'. Which of the following steps is MOST likely to resolve the issue?

- A. Check the systems BIOS/UEFI to confirm that SR-IOV is enabled.
- B. Verify that the correct PCIe slot is being used. Some systems may have specific slots designated for SmartNICs.
- C. Update the 'bfboot' utility to the latest version. Older versions may have compatibility issues.
- D. Install the Mellanox OFED drivers on the host system. These drivers are required for 'bfboot' to function correctly.
- E. **Ensure the BlueField device is powered on and properly connected to the host system via PCIe.**

**Answer: E**

Explanation:

The most basic and common cause of this error is a physical connection issue. Ensuring the device is powered and connected is the first step. While other options might be relevant in specific scenarios, connectivity is the most probable cause.

### NEW QUESTION # 50

You are trying to install the NVIDIA Container Toolkit on a Linux distribution that is not officially supported in the NVIDIA documentation.

The standard installation instructions using 'apt' or 'yum' fail. What is the most appropriate approach to proceed with the installation?

- A. Create a Docker container with a supported distribution and run the application inside the container.
- B. **Identify a similar, supported Linux distribution and adapt the installation instructions for that distribution, carefully considering potential compatibility issues.**
- C. Contact NVIDIA support and request a custom installation package for your distribution.
- D. Attempt to install the NVIDIA drivers and CUDA toolkit manually, bypassing the NVIDIA Container Toolkit altogether.
- E. Download the source code for the NVIDIA Container Toolkit and compile it manually.

**Answer: B**

Explanation:

The most practical approach is to try adapting the installation instructions from a similar, supported distribution (B). This involves carefully examining the package dependencies and potential compatibility issues. Manually installing drivers and CUDA (A) is complex and doesn't provide the containerization benefits. Compiling from source (C) might be possible but requires significant expertise and is not the recommended path. Running the application in a container (D) is a workaround, not a solution to installing the toolkit on the host. Requesting a custom package (E) is unlikely to be successful in a timely manner. The goal is to install the NVIDIA Container Toolkit itself, and not only run AI applications.

### NEW QUESTION # 51

Consider a scenario where you're using GPUDirect Storage to enable direct memory access between GPUs and NVMe drives. You observe that while GPUDirect Storage is enabled, you're not seeing the expected performance gains. What are potential reasons and configurations you should check to ensure optimal GPUDirect Storage performance? Select all that apply.

- A. Disable CPU-side caching to force all I/O operations to go directly to the GPU memory.
- B. **Ensure that the NVMe drives are connected to the system via PCIe Gen4 or Gen5.**
- C. **Check if the file system supports direct I/O (e.g., using 'directio' mount option).**
- D. **Confirm that the CUDA driver version is compatible with GPUDirect Storage.**
- E. Verify that the NVMe drives are properly configured in a RAID 0 configuration.

**Answer: B,C,D**

Explanation:

Explanation: GPUDirect Storage requires PCIe Gen4/Gen5 for sufficient bandwidth (B). The CUDA driver must be compatible with GPUDirect Storage (C). Direct I/O support in the file system is essential to bypass the OS cache and allow direct GPU access (D).

RAID 0 (A) is about storage speed but not directly related to GDS functionality. Disabling CPU-side caching (E) is usually detrimental as it can reduce overall system performance. Note, this is not always bad but needs to be tested depending on application.

### NEW QUESTION # 52

You're deploying a BlueField-2 DPU in a cloud environment and need to ensure the integrity of the DPU's firmware. You want to verify that the firmware hasn't been tampered with. Which of the following methods provides the strongest level of assurance for firmware integrity?

- A. Using a digitally signed firmware image and verifying the signature using NVIDIA's public key.
- B. Checking the file size of the firmware image against a known good value.
- C. Comparing the firmware version reported by the DPU with the version listed in the NVIDIA release notes.
- D. Verifying the SHA256 checksum of the firmware image against a known good value provided by NVIDIA.
- E. Checking the MD5 checksum of the firmware image against a known good value.

**Answer: A**

Explanation:

Digitally signed firmware provides the strongest guarantee of integrity. The signature verifies that the firmware hasn't been tampered with since it was signed by NVIDIA. SHA256 checksums are good, but digital signatures are cryptographically stronger. MD5 checksums are considered weak and easily compromised. Firmware version and file size offer minimal assurance against sophisticated attacks.

### NEW QUESTION # 53

You are observing high latency in your GPU-accelerated inference service deployed on Kubernetes. You suspect that GPU resource contention might be the cause. What steps can you take to diagnose and mitigate this issue within the Kubernetes environment? (Multiple Answers)

- A. Utilize MIG (Multi-Instance GPU) to partition GPUs and isolate workloads.
- B. Increase the number of replicas in the deployment to distribute the load across more GPUs.
- C. Monitor GPU utilization metrics (e.g., GPU utilization, memory usage) using tools like 'nvidia-smi' or Prometheus and Grafana.
- D. Implement resource quotas to limit the GPU resources that each namespace can consume.
- E. Restarting the cluster periodically.

**Answer: A,C,D**

Explanation:

Monitoring GPU utilization helps identify resource contention. Resource quotas prevent one namespace from consuming excessive GPU resources. MIG allows partitioning GPUs for workload isolation. Increasing replicas (option D) might help, but it doesn't address the underlying contention issue. Restarting the cluster is not a solution for ongoing contention.

### NEW QUESTION # 54

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