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### NVIDIA AI Infrastructure Sample Questions (Q42-Q47):

#### NEW QUESTION # 42

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. Confirm that the CUDA driver version is compatible with GPUDirect Storage.
- B. Check if the file system supports direct I/O (e.g., using 'directio' mount option).
- C. Ensure that the NVMe drives are connected to the system via PCIe Gen4 or Gen5.

- D. Disable CPU-side caching to force all I/O operations to go directly to the GPU memory.
- E. Verify that the NVMe drives are properly configured in a RAID 0 configuration.

**Answer: A,B,C**

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 # 43

You are tasked with configuring an NVIDIA NVLink Switch system. After physically connecting the GPUs and the switch, what is the typical first step in the software configuration process?

- A. Configuring the system BIOS to enable NVLink support.
- **B. Updating the firmware of the NVLink Switch.**
- C. Installing the latest NVIDIA drivers on all connected GPUs.
- D. Running a memory bandwidth test between all connected GPUs.
- E. Installing the NVLink Switch management software.

**Answer: B**

Explanation:

Updating the NVLink Switch firmware is crucial for ensuring compatibility and stability with the connected GPUs and the overall system. It addresses potential bugs, security vulnerabilities, and performance issues. It should always be done first before any other software configuration. BIOS settings should be checked beforehand, and the NVLink management software comes after the firmware update.

### NEW QUESTION # 44

When setting up a multi-server, multi-GPU environment using NVLink switches, what is the primary consideration when planning the network topology for optimal performance?

- **A. Minimizing the number of hops between GPUs that need to communicate frequently.**
- B. Maximizing the distance between servers to improve cooling.
- C. Using a star topology for simplified management.
- D. Ensuring all servers are on the same subnet for ease of configuration.
- E. Placing servers near the network's edge to reduce latency.

**Answer: A**

Explanation:

The primary goal is to reduce latency and maximize bandwidth. Minimizing hops between frequently communicating GPUs is essential for achieving this. Server placement for cooling is a secondary concern, and topology choice should prioritize performance over simplicity. Subnet configuration and server placement relative to the network edge are less critical for NVLink-specific performance.

### NEW QUESTION # 45

You've deployed a GPU-accelerated application in Kubernetes using the NVIDIA device plugin. However, your pods are failing to start with an error indicating that they cannot find the NVIDIA libraries. Which of the following could be potential causes of this issue? (Multiple Answers)

- **A. The NVIDIA drivers are not installed on the host node.**
- **B. The 'nvidia-container-runtime' is not configured as the default runtime for Docker/containerd.**
- C. The GPU's compute capability is not sufficient for the workload.
- **D. The application container image does not include the necessary NVIDIA libraries.**
- **E. The NVIDIA device plugin is not properly configured in the Kubernetes cluster.**

**Answer: A,B,D,E**

Explanation:

If pods cannot find NVIDIA libraries, it could be because the drivers are missing on the host, the container runtime is not configured to use the NVIDIA runtime, the NVIDIA device plugin is misconfigured preventing GPU discovery and allocation, or the application container image does not include the NVIDIA libraries. E is likely incorrect, if the GPU's compute capability is insufficient then the app would likely start, but throw an error when trying to use the GPU.

#### **NEW QUESTION # 46**

A systems engineer is updating firmware across a large DGX cluster using automation. What is the best practice for minimizing risk and ensuring cluster health during and after the process?

- **A. Drain nodes from the scheduler, run pre-update diagnostics, update firmware in batches, and verify health post-update before scaling to the next batch.**
- B. To save time, simultaneously update all nodes in the cluster without draining or diagnostics.
- C. Update nodes that have reported faults, leaving others on older firmware.
- D. Drain nodes from the scheduler, update firmware in batches, skip diagnostics and verify health post- update before scaling to the next batch.

**Answer: A**

Explanation:

Updating firmware on an NVIDIA DGX cluster is a critical operation that involves multiple sensitive components, including the GPU baseboard, the BMC, the motherboard tray (SBC), and the InfiniBand HCAs.

In a production environment, "Batching" is the industry standard to prevent a single corrupted firmware image or update failure from taking down the entire AI factory. The process must begin with "Draining" the nodes in the workload scheduler (like Slurm or Kubernetes) to ensure no active training jobs are interrupted.

Running pre-update diagnostics-using tools like nvsml show health or dcgmi diag-is vital to establish a baseline and ensure the hardware is stable before applying changes. Once the firmware is applied in a controlled batch, post-update verification is required to confirm the system returns to a "Healthy" state and that all versions match the target manifest. This "Rolling Update" strategy allows the engineer to pause the automation if a specific node fails to return to service, protecting the overall availability of the cluster. Skipping diagnostics (Option D) or leaving nodes on mismatched versions (Option C) creates "configuration drift," which leads to unpredictable performance in collective communication libraries.

#### **NEW QUESTION # 47**

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