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## NVIDIA AI Infrastructure Sample Questions (Q194-Q199):

### NEW QUESTION # 194

You are using Docker Compose to define a multi-container application that includes a GPU-accelerated service. How would you configure the service in the 'docker-compose.yml' file to leverage the NVIDIA runtime?

- A. Add 'runtime: nvidia' to the service definition.
- B. Add 'command: -gpus all' to the service definition.
- C. Add 'nvidia: all' to the service definition.
- D. Add 'deploy: resources: reservations: devices: - driver: nvidia count: all capabilities: [gpu]' to the service definition.
- E. Set the environment variable 'NVIDIA\_VISIBLE\_DEVICES' in the service definition.

### Answer: A

Explanation:

To enable the NVIDIA runtime for a service in a 'docker-compose.yml' file, you should use the 'runtime: nvidia' directive within the service definition. The 'deploy' section is relevant for Swarm deployments, not standard Docker Compose. Environment variables like 'NVIDIA\_VISIBLE\_DEVICES' can further control GPU visibility, but the 'runtime' is fundamental for enabling the NVIDIA runtime itself. The '-gpus' flag is a 'docker run' option, not a Compose configuration, and 'nvidia: all' is not a valid Compose option.

### NEW QUESTION # 195

You are configuring an NVIDIA BlueField-3 DPLJ to offload network processing. The DPIJ is connected to a server via PCIe Gen5. Which cable type is essential for connecting the DPIJ to a 200GbE switch, ensuring optimal performance and signal integrity, and which describes its use?

- A. Active Optical Cable (AOC); Best for long-distance connections exceeding 10 meters in data centers.
- B. Single-mode fiber optic cable; Used for long-distance connections where electrical interference is a concern.
- C. Passive Copper Cable; Cost-effective for very short reach connections within the same rack.
- D. Direct Attach Copper (DAC) cable; Ideal for short-range, high-bandwidth connections between devices in close proximity.
- E. Active Copper Cable (ACC); Suitable for mid-range connections with improved signal quality compared to passive copper.

### Answer: D

Explanation:

Direct Attach Copper (DAC) cables are the best choice for short-range, high-bandwidth connections like those between a DPIJ and a switch within the same rack. They offer a balance of cost and performance, while maintaining signal integrity. AOCs are for longer reach, while passive copper cables are for very short distances.

### NEW QUESTION # 196

A large language model (LLM) training job is running across multiple NVIDIA A100 GPUs in a cluster. You observe that the GPUs within a single server are communicating efficiently via NVLink, but the inter-server communication over Ethernet is becoming a bottleneck. Which of the following strategies, focusing on cable and transceiver selection, would MOST effectively address this inter-server communication bottleneck? (Choose TWO)

- A. Upgrade inter-server connections to the highest available Ethernet speed (e.g., from 100GbE to 400GbE) using appropriate transceivers and fiber optic cables.
- B. Reduce the batch size of the LLM training job.
- C. Replace all existing transceivers with Active Optical Cables (AOCs).
- D. Implement InfiniBand as the interconnect technology for inter-server communication, utilizing appropriate InfiniBand cables and transceivers.
- E. Replace existing Cat6 Ethernet cables with Cat8 cables.

**Answer: A,D**

Explanation:

Upgrading to higher Ethernet speeds (e.g., 400GbE) with appropriate transceivers and fiber significantly increases bandwidth for inter-server communication. Implementing InfiniBand, a technology designed for high-performance computing interconnects, offers even better performance than Ethernet. Cat8 cables improve Ethernet signal quality but don't fundamentally increase bandwidth. Reducing batch size reduces the amount of data transferred but might impact training convergence. While AOCs can improve signal quality, they don't address the underlying bandwidth limitations as effectively as faster Ethernet or InfiniBand.

**NEW QUESTION # 197**

An AI server with 8 GPUs is experiencing random system crashes under heavy load. The system logs indicate potential memory errors, but standard memory tests (memtest86+) pass without any failures. The GPUs are passively cooled. What are the THREE most likely root causes of these crashes?

- A. A faulty power supply unit (PSU) that is unable to provide stable power under peak load.
- B. GPU memory errors that are not detectable by standard CPU-based memory tests.
- C. Insufficient airflow within the server, leading to overheating of the GPUs and VRMs.
- D. Incompatible NVIDIA driver version with the installed Linux kernel.
- E. Network congestion causing intermittent data corruption during distributed training.

**Answer: A,B,C**

Explanation:

GPU memory errors (B) are a strong possibility, as CPU-based tests don't test GPU memory directly. Insufficient airflow (C) is likely due to the passive cooling, leading to thermal instability. A faulty PSU (D) can cause random crashes under load due to power fluctuations. Driver incompatibility (A) is less likely to cause random crashes after initial setup, and network congestion (E) usually results in training slowdowns rather than system crashes.

**NEW QUESTION # 198**

You are configuring a server with NVIDIA GPUs for optimal power efficiency. You want to leverage NVIDIA's power management features to minimize energy consumption during idle periods. Which of the following actions would be the MOST effective in achieving this goal, without significantly impacting performance during active workloads?

- A. Set a very low static power limit for the GPUs, significantly restricting their performance even during active workloads.
- B. Enable NVIDIA's Adaptive Clocking and Power Limiting features, allowing the GPU to dynamically adjust its clock speeds and power consumption based on the workload.
- C. Reduce the GPU's clock speeds to the lowest possible setting, regardless of workload.
- D. Disable all GPU power management features to ensure maximum performance at all times.
- E. Remove one or more GPUs from the server to reduce overall power consumption.

**Answer: B**

Explanation:

Enabling NVIDIA's Adaptive Clocking and Power Limiting features is the MOST effective approach. These features allow the GPU to dynamically adjust its clock speeds and power consumption based on the workload, minimizing energy consumption during idle periods while maximizing performance during active workloads. Setting a fixed low clock speed (A) or power limit (E) would severely impact performance. Disabling power management (C) wastes energy. Removing GPUs (D) reduces performance capacity.

**NEW QUESTION # 199**

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