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NVIDIA Certified Professional AI Infrastructure

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1 / 9

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NVIDIA AI Infrastructure Sample Questions (Q81-Q86):

NEW QUESTION # 81

You are configuring network fabric ports for NVIDIA GPUs in a server. The GPUs are connected to the network via PCIe. What is the primary factor that determines the maximum achievable bandwidth between the GPUs and the network?

- A. The PCIe generation and number of lanes connecting the GPUs to the network adapter (e.g., PCIe 4.0 x16).
- B. The clock speed of the CPU.
- C. The color of the Ethernet cables.
- D. The speed of the system's hard drives or SSDs.
- E. The amount of system RAM.

Answer: A

Explanation:

The PCIe generation (e.g., PCIe 4.0, PCIe 5.0) and the number of lanes (e.g., x8, x16) directly determine the maximum theoretical bandwidth available between the GPUs and the network adapter. Higher PCIe generations and more lanes provide greater bandwidth. For example, PCIe 4.0 x16 offers significantly more bandwidth than PCIe 3.0 x8. All other options are either irrelevant or have a negligible impact on this particular bottleneck.

NEW QUESTION # 82

An AI infrastructure uses a combination of air-cooled and liquid-cooled NVIDIA GPUs. You want to optimize cooling performance based on the specific thermal characteristics of each GPU type and their location within the server rack. How can you achieve granular cooling control and monitoring to address these heterogeneous cooling requirements effectively? SELECT TWO.

- A. Employ liquid cooling only for the highest TDP GPUs and rely on ambient air cooling for all other components.
- B. Use a centralized monitoring system to track GPU temperatures and power consumption, but apply the same cooling profile to all GPUs regardless of type.
- C. Implement dynamic fan speed control based on individual GPU temperatures, leveraging tools like 'nvidia-smi' and custom scripts, for air-cooled GPUs.
- D. Implement rack-level airflow management solutions, such as blanking panels and cable management, to improve overall airflow uniformity.
- E. Deploy per-server cooling solutions with independent fan control for each server node, allowing for tailored airflow adjustments.

Answer: C,D

Explanation:

Implementing rack-level airflow management (A) improves overall airflow uniformity, which benefits all GPUs, regardless of cooling type. Implementing dynamic fan speed control based on individual GPU temperatures for air-cooled GPUs (E) allows for fine-grained adjustments to cooling performance. Per-server cooling solutions (C) can be helpful, but less scalable/practical in most datacenters. Using the same cooling profile for all GPUs (B) is ineffective. Cooling only high TDP GPUs (D) may not be sufficient.

NEW QUESTION # 83

During NVLink Switch configuration, you encounter issues where certain GPUs are not being recognized by the system. Which of the following troubleshooting steps are most likely to resolve this problem?

- A. Reinstall the operating system.
- B. Check the Power supply for enough capacity and stability.
- C. Ensure that the NVLink Switch firmware is compatible with the installed GPUs.
- D. Verify that all NVLink cables are securely connected and properly seated.
- E. Check the system BIOS settings to ensure that NVLink is enabled and configured correctly.

Answer: C,D,E

Explanation:

Explanation: Physical connection issues (A), BIOS configuration (B), and firmware incompatibility (C) are the most common causes of GPUs not being recognized. Reinstalling the operating system is a drastic measure that is unlikely to solve the problem. Checking the Power supply may also required to ensure the complete system have enough capacity and stability.

NEW QUESTION # 84

After successfully installing the NVIDIA Container Toolkit and configuring Docker, you're attempting to build a container image that leverages the GPU. You're using a Dockerfile but encounter the following error during the 'docker build' process: 'error during connect: this error may indicate that the docker daemon is not running'. However, the Docker daemon IS running. What is the most likely reason the build process is failing to connect, specifically in the context of GPU-enabled containers?

- A. The Docker daemon does not have sufficient permissions to access the NVIDIA GPUs.
- B. The container requires more memory than the host is providing and the docker build command exited due to OOM.
- C. The Docker daemon is configured to use a different networking driver than the one expected by the NVIDIA Container Toolkit.
- **D. The -gpus all flag (or similar) needs to be passed to the 'docker build' command to enable GPU access during the build process, as it is needed for building images that require cuda.**
- E. The user executing the 'docker build' command does not belong to the 'docker' group.

Answer: D

Explanation:

The error 'error during connect: this error may indicate that the docker daemon is not running' during a 'docker build', when the daemon actually is running, can indicate a failure to connect to the daemon for a specific reason related to GPU access. 'docker build' requires - gpus all to be passed in order for CUDA to correctly build the image. Permissions(A) are unlikely to cause this specific connection error. User group issues(B) are usually related to running containers, not building them. A networking issue (D) is possible but less likely in the context of a local build. The same can be said for container exceeding the hosts' available memory.

NEW QUESTION # 85

You are tasked with upgrading the NVIDIA driver on a Kubernetes node hosting GPU-accelerated AI workloads. To minimize downtime and ensure a smooth transition, which sequence of steps should you follow?

- **A. Cordon the node, upgrade the driver, reboot the node, and uncordon it.**
- B. Drain the node, upgrade the driver, reboot the node, and uncordon it.
- C. Upgrade the NVIDIA container toolkit, then upgrade the driver, reboot the node, and uncordon it.
- D. Upgrade the driver directly on the node, reboot the node, and let Kubernetes automatically reschedule the workloads.
- E. Delete all pods running on the node, upgrade the driver, reboot the node, and recreate the pods.

Answer: A

Explanation:

Cordoning the node prevents new pods from being scheduled on it. After upgrading the driver and rebooting, uncordoning the node allows Kubernetes to resume scheduling workloads. Draining the node before upgrading can cause unnecessary downtime if pods are migrated before the upgrade process starts. The NVIDIA container toolkit must be compatible to the NVIDIA driver, but the upgrade sequence follows Option C steps.

NEW QUESTION # 86

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