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NVIDIA Certified Professional AI Infrastructure

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NVIDIA AI Infrastructure Sample Questions (Q181-Q186):

NEW QUESTION # 181

You need to verify the NVLink connectivity between GPUs in a DGX server. Which command-line utility is the MOST reliable and provides detailed NVLink status?

- A. nvidia-smi
- B. nvlink_info (Hypothetical command)
- C. gpustat
- D. **dcgmi diag -t 1004**
- E. Ispci

Answer: D

Explanation:

'dcgmi diag -t 1004' is the correct command. 'nvidia-smi' provides basic GPU information, but 'dcgmi diag -t 1004' (part of the Data Center GPU Manager) provides specific diagnostic tests for NVLink connectivity. 'Ispci' lists PCIe devices, not specifically NVLink. 'gpustat' is a monitoring tool. 'nvlink_info' is hypothetical.

NEW QUESTION # 182

You are deploying a multi-node NVIDIA GPU cluster for distributed deep learning. Each node has a different ambient operating temperature due to varying airflow patterns within the data center. To ensure optimal performance and longevity of the GPUs across all nodes, which approach is MOST effective for managing GPU power limits?

- A. **Implement dynamic power management using NVIDIA's Data Center GPU Manager (DCGM) to adjust power limits on a per-GPU basis, taking into account real- time temperature readings and workload characteristics.**
- B. Rely on the default power management settings provided by the GPU driver.
- C. Set a uniform power limit for all GPUs across the entire cluster based on the GPU's Thermal Design Power (TDP) specification.
- D. Disable power capping altogether to allow GPUs to operate at their maximum potential performance.
- E. Manually adjust the fan speeds of each GPU to ensure they are all running at maximum RPM.

Answer: A

Explanation:

Option C, using DCGM for dynamic power management, is the most effective approach. It allows for per-GPU power limit adjustments based on real-time conditions, optimizing performance while ensuring thermal safety and longevity across nodes with different operating temperatures. A uniform power limit (A) might be too restrictive for some nodes or insufficient for others.

Disabling power capping (B) risks overheating and damage. Default settings (D) may not be optimal. Manually adjusting fan speeds (E) can help, but doesn't address power limits directly.

NEW QUESTION # 183

You are installing multiple NVIDIA GPUs in a server for a deep learning cluster. To optimally utilize the GPUs, which software component(s) are MANDATORY after the physical installation and driver setup? (Select TWO)

- A. A text editor.
- B. **NVIDIA CUDA Toolkit.**
- C. A web browser.
- D. A spreadsheet program.

- E. A deep learning framework like TensorFlow or PyTorch.

Answer: B,E

Explanation:

The NVIDIA CUDA Toolkit provides the necessary libraries and tools for GPU-accelerated computing. A deep learning framework (TensorFlow or PyTorch) is required to build and train deep learning models that leverage the GPUs. While a web browser and text editor might be useful, they are not mandatory. Spreadsheet applications have no purpose here.

NEW QUESTION # 184

You are tasked with creating a custom Docker image for a deep learning application that requires a specific version of cuDNN. You want to minimize the image size while ensuring that the cuDNN libraries are correctly installed and configured. What is the most efficient way to achieve this?

- A. Use a multi-stage Docker build, using a base image with the desired CUDA version for building and then copying only the necessary cuDNN libraries to a smaller runtime image.
- B. Use a pre-built CUDA base image and install cuDNN during the container run.
- C. Download the cuDNN archive from NVIDIA, extract the libraries, and manually copy them to the appropriate locations within the Dockerfile.
- D. Install the entire CUDA toolkit within the Docker image, even if only cuDNN is needed.
- E. Use the NVIDIA Container Toolkit to dynamically inject the cuDNN libraries into the container at runtime.

Answer: A

Explanation:

A multi-stage Docker build (B) is the most efficient approach. It allows you to use a larger image with the CUDA toolkit for building and then copy only the necessary cuDNN libraries to a smaller runtime image, minimizing the final image size. Manually copying libraries (A) is tedious and error-prone. Installing the entire CUDA toolkit (C) unnecessarily increases the image size. The NVIDIA Container Toolkit (D) focuses on enabling GPU access, not dynamically injecting specific libraries. Running an install of cuDNN during the container run is problematic since the image should be self-contained.

NEW QUESTION # 185

You need to configure persistent network settings on your BlueField SmartNIC after deploying BlueField OS. Which file should you modify to ensure these settings are applied after each reboot, assuming a Debian-based distribution?

- A. /etc/network/interfaces
- B. /etc/sysconfig/network-scripts/ifcfg-
- C. /etc/resolv.conf
- D. /etc/dhcp/dhclient.conf
- E. /etc/hostname

Answer: A

Explanation:

On Debian-based systems, the '/etc/network/interfaces' file is the standard location for configuring persistent network settings. Changes made to this file will be applied on each boot. 'etc/resolv.conf' is for DNS settings, '&etc/hostname' sets the system's hostname, and '/etc/sysconfig/network-scripts/ifcfg-' is more commonly found on Red Hat-based systems. 'etc/dhcp/dhclient.conf' is for DHCP settings.

NEW QUESTION # 186

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