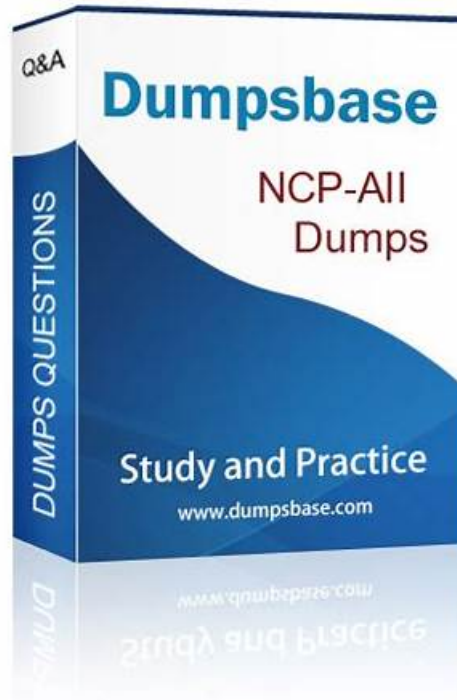


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NVIDIA AI Infrastructure Sample Questions (Q63-Q68):

NEW QUESTION # 63

A user reports that their CUDA application is running slower than expected after an NVIDIA driver update. You suspect a driver

compatibility issue. How can you revert to a previous NVIDIA driver version on an Ubuntu system, assuming you have the older driver package 'nvidia-driver-470_470.82.00-0ubuntu1_amd64.deb'?

- A. Simply install the '.deb' package using 'sudo dpkg -i'
- B. Use the NVIDIA System Management Interface (nvidia-smi) to downgrade the driver.
- C. First, remove the current NVIDIA driver using 'sudo apt purge nvidia- s, then install the '.deb' package using 'sudo dpkg -i nvidia-driver-470_470.82.00-0ubuntu1_amd64.deb' and resolve any dependency issues with 'sudo apt --fix-broken install'.
- D. Edit the '/etc/apt/sources.list' file to point to an older repository containing the desired driver version, then update and upgrade the system.
- E. Install the older '.run' installer version, if you previously installed it using '.run', using the -uninstall option first.

Answer: C

Explanation:

The safest and most reliable approach is to first remove the current NVIDIA driver using 'sudo apt purge nvidia- to avoid conflicts. Then, install the '.deb' package using 'sudo dpkg -i' and resolve any potential dependency issues with 'sudo apt --fix-broken install'. 'nvidia-smi' cannot downgrade drivers. Editing '/etc/apt/sources.list' can be risky and lead to system instability. Directly installing with 'dpkg -i' without purging the old driver can cause conflicts. If you installed with '.run' before, then you must uninstall using that method first.

NEW QUESTION # 64

You are a network administrator responsible for configuring an East-West (E/W) Spectrum-X fabric using SuperNIC. The Bluefield-3 devices in your network should be set to NIC mode with RoCE enabled to optimize data flow between servers. You have access to the Spectrum-X management tools and the necessary documentation. You need to use specific configuration commands to achieve this setup. Which of the following steps and commands are necessary to configure the Bluefield-3 devices in NIC mode for the E/W Spectrum-X fabric using SuperNIC? (Pick the 2 correct responses below)

- A. Use the command `sudo mxconfig -d /dev/mst/<device> set LINK_TYPE_P1=2` to enable Ethernet on the Bluefield-3 devices.
- B. Use the command `sudo mxconfig -d /dev/mst/<device> set INTERNAL_CPU_OFFLOAD_ENGINE=1` to configure the SuperNIC to operate in NIC mode.
- C. Use the command `sudo mxconfig -d /dev/mst/<device> set DPU_MODE=1` to set up the Bluefield-3 devices in DPU mode.
- D. Use the command `sudo mxconfig -d /dev/mst/<device> set DISABLE_SPECTRUM_X=1` to reduce overhead.

Answer: A,B

Explanation:

NVIDIA Spectrum-X is the world's first high-performance Ethernet fabric designed specifically for AI, combining Spectrum-4 switches with BlueField-3 SuperNICs. To achieve the high-throughput, low-latency requirements of East-West (server-to-server) AI traffic, the BlueField-3 hardware must be correctly provisioned. The first requirement is ensuring the physical ports are operating in Ethernet mode; `LINK_TYPE_P1=2` (and `P2=2` for the second port) toggles the hardware from InfiniBand to Ethernet mode. Secondly, the BlueField-3 can operate in several "modes." While "DPU mode" (Option D) offloads the entire OS to the ARM cores, "NIC mode" (or SuperNIC mode) allows the host to manage the networking while leveraging the Internal CPU Offload Engine. Setting `INTERNAL_CPU_OFFLOAD_ENGINE=1` is a specific configuration step for Spectrum-X that allows the SuperNIC to handle RoCE (RDMA over Converged Ethernet) and Congestion Control (CC) algorithms more efficiently at 400G speeds. This setup is vital for AI workloads like LLM training, where consistent latency and zero-packet-loss are non-negotiable for collective communications.

NEW QUESTION # 65

Which of the following storage technologies are most suitable for storing large training datasets used in deep learning, considering both performance and cost?

- A. A parallel file system (e.g., BeeGFS, Lustre) deployed on NVMe SSDs
- B. Object storage (e.g., AWS S3, Azure Blob Storage) accessed directly from the training nodes
- C. Tape backup systems
- D. SATA HDDs in a network-attached storage (NAS) configuration
- E. High-performance NVMe SSDs in a local RAID configuration

Answer: A

Explanation:

NVMe SSDs in a local RAID offer high performance and relatively low latency, making them suitable for data that needs to be accessed quickly. Parallel file systems deployed on NVMe SSDs provide the highest performance and scalability, especially for large datasets accessed concurrently by multiple training nodes. Object storage can be used for initial data ingest or archival but is generally slower than local or parallel file systems for training. SATA HDDs and Tape backup systems are a low performing option for this case.

NEW QUESTION # 66

You've replaced a faulty NVIDIA Quadro RTX 8000 GPU with an identical model in a workstation. The system boots, and 'nvidia-smi' recognizes the new GPU. However, when rendering complex 3D scenes in Maya, you observe significantly lower performance compared to before the replacement. Profiling with the NVIDIA Nsight Graphics debugger shows that the GPU is only utilizing a small fraction of its available memory bandwidth. What are the TWO most likely contributing factors?

- A. The newly installed GPU's VBIOS has not been properly flashed, causing an incompatibility issue.
- **B. The new GPU's PCIe link speed is operating at a lower generation (e.g., Gen3 instead of Gen4).**
- C. The Maya scene file contains corrupted or inefficient geometry.
- **D. The workstation's power plan is set to 'Power Saver,' limiting GPU performance.**
- E. The NVIDIA OptiX denoiser is not properly configured or enabled.

Answer: B,D

Explanation:

Low memory bandwidth utilization after replacing a GPU suggests a bottleneck in data transfer or power delivery. A lower PCIe link speed (A) would severely limit the GPU's ability to receive data from the CPU and system memory, resulting in underutilization. Setting the power plan to 'Power Saver' (C) restricts the GPU's power budget, preventing it from reaching its maximum clock speed and memory bandwidth. While OptiX denoiser configuration (B) and scene file issues (D) can impact rendering performance, they are less likely to directly cause low memory bandwidth utilization. VBIOS issues (E) could cause problems, but incorrect or missing VBIOS can cause driver errors or complete system unresponsiveness.

NEW QUESTION # 67

You are tasked with ensuring optimal power efficiency for a GPU server running machine learning workloads. You want to dynamically adjust the GPU's power consumption based on its utilization. Which of the following methods is the MOST suitable for achieving this, assuming the server's BIOS and the NVIDIA drivers support it?

- A. Disable ECC (Error Correcting Code) on the GPU to reduce power consumption.
- B. Manually set the GPU's power limit using 'nvidia-smi -pl' and create a script to monitor utilization and adjust the power limit periodically.
- **C. Use NVIDIA's Data Center GPU Manager (DCGM) to monitor GPU utilization and dynamically adjust the power limit based on a predefined policy.**
- D. Enable Dynamic Boost in the NVIDIA Control Panel (if available), which will automatically allocate power between the CPU and GPU based on their current needs.
- E. Configure the server's BIOS/UEFI to use a power-saving profile, which will automatically reduce the GPU's power consumption when idle.

Answer: C

Explanation:

DCGM provides the most comprehensive and automated solution for dynamic power management. It can monitor GPU utilization in real-time and adjust the power limit based on predefined policies, ensuring optimal power efficiency without manual intervention. Manually adjusting the power limit is possible but requires scripting and continuous monitoring. Dynamic Boost is typically for laptops, and BIOS power profiles may not be fine-grained enough. Disabling ECC reduces power but compromises data integrity.

NEW QUESTION # 68

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