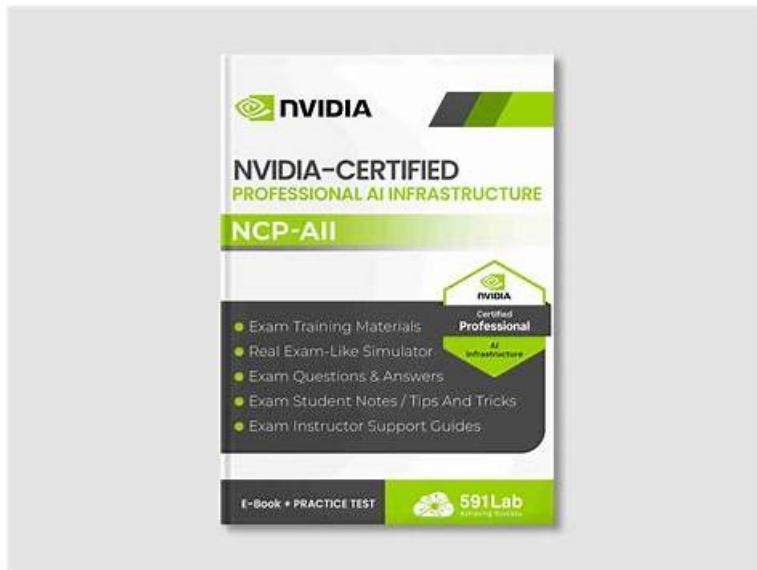


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## NVIDIA AI Infrastructure Sample Questions (Q38-Q43):

### NEW QUESTION # 38

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

**Answer: A,C**

#### 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 # 39

You are setting up a new A1 server with multiple NVIDIA GPUs for deep learning workloads. You need to install the NVIDIA Container Toolkit. After installing the necessary packages using your distribution's package manager, what is the most crucial next step to ensure proper integration with Docker?

- A. Manually create `etc/docker/daemon.json` and add 'nvidia' as a default runtime.
- B. Restart the Docker daemon (e.g., `systemctl restart docker`)
- **C. Run `'nvidia-ctk runtime configure -runtime=docker'`**
- D. Run `'nvidia-smi` to verify GPU detection. This automatically configures the container runtime.
- E. Reboot the server to load the new kernel modules.

#### Answer: C

#### Explanation:

The `'nvidia-ctk runtime configure -runtime=docker'` command is essential to configure Docker to use the NVIDIA Container Runtime. This integrates the NVIDIA drivers and libraries within the Docker environment, allowing containers to access the GPUs. While restarting Docker is often helpful, `'nvidia-ctk'` performs the necessary configuration steps. Rebooting is not always necessary after just installing a package, and manually editing `'daemon.json'` is generally not the recommended approach. `'nvidia-smi'` simply reports the status of the GPUs, it doesn't configure the runtime.

#### NEW QUESTION # 40

You are configuring an NVIDIA AIOO GPU in a server, and after installation and driver setup, power is lower than the GPU's specified TDP. What are the possible reasons for this? `nvidia-smi` reports a power limit much

- A. The power supply is not providing enough power.
- B. The GPU is in a low-power mode due to inactivity.
- C. The driver is not correctly installed.
- D. The GPU is faulty.
- **E. The system BIOS is limiting the power to the PCIe slot.**

#### Answer: E

#### Explanation:

While the other options are possible, a BIOS setting restricting power to the PCIe slot is a common cause of unexpectedly low power limits reported by `'nvidia-smi'`. Always check BIOS settings when troubleshooting power-related issues. The GPU should ramp up power if a workload is presented, if it's in low power mode.

#### NEW QUESTION # 41

You're configuring a BlueField-3 DPU-based server for high-performance storage. You want to utilize NVMe-oF (NVMe over Fabrics) to access remote NVMe SSDs. What is the primary benefit of using a BlueField DPU in this NVMe-oF setup compared to a traditional server with a standard NIC?

- A. BlueField DPU automatically configures the NVMe-oF target without any manual intervention.
- B. BlueField DPU provides built-in hardware encryption for all NVMe-oF traffic.
- **C. BlueField DPU offloads the NVMe-oF protocol processing, reducing CPU overhead on the host server.**
- D. BlueField DPU eliminates the need for a separate NVMe-oF target server.
- E. BlueField DPU allows hot-swapping of NVMe SSDs without interrupting the NVMe-oF connection.

#### Answer: C

#### Explanation:

The key advantage of using a BlueField DPU in an NVMe-oF setup is its ability to offload the NVMe-oF protocol processing. This significantly reduces the CPU overhead on the host server, allowing it to dedicate more resources to other tasks. While some DPUs might offer features like hardware encryption, the primary benefit is protocol offload.

#### NEW QUESTION # 42

An A1 inferencing server, using NVIDIA Triton Inference Server, experiences intermittent crashes under peak load. The logs reveal CUDA out-of-memory errors (00M) despite sufficient system RAM. You suspect a GPU memory leak within one of the models. Which strategy BEST addresses this issue?

- A. Reduce the batch size and concurrency of the offending model in the Triton configuration.
- B. Implement CUDA memory pooling within the Triton Inference Server configuration to reuse memory allocations efficiently.
- C. Increase the system RAM to accommodate the growing memory footprint.
- D. Upgrade the GPUs to models with larger memory capacity.
- E. Disable other models running on the same GPU to free up memory.

#### Answer: A,B

#### Explanation:

Options B and C directly address the 00M issue. CUDA memory pooling enables efficient reuse of GPU memory, minimizing allocations and deallocations. Reducing batch size and concurrency decreases the memory footprint of the model, alleviating the pressure on GPU memory. While upgrading GPUs (D) is a solution, it is more costly than optimizing the current configuration. Increasing system RAM (A) does not solve GPU memory issues. Disabling other models (E) reduces load but doesn't address the core problem of the memory leak in the first place.

#### NEW QUESTION # 43

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