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NVIDIA AI Infrastructure Sample Questions (Q183-Q188):

NEW QUESTION # 183

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

Answer: A,E

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 # 184

You are using NVIDIA Spectrum-X switches in your A1 infrastructure. You observe high latency between two GPU servers during a large distributed training job. After analyzing the switch telemetry, you suspect a suboptimal routing path is contributing to the problem. Which of the following methods offers the MOST granular control for influencing traffic flow within the Spectrum-X fabric to mitigate this?

- A. Configure QOS (Quality of Service) policies to prioritize traffic from the high-latency GPU servers.
- B. Adjust the Equal-Cost Multi-Path (ECMP) hashing algorithm globally on all switches.
- C. Manually configure static routes on the Spectrum-X switches to force traffic between the GPU servers along a specific path.
- D. Disable IPv6 to simplify routing decisions.
- E. **Implement Adaptive Routing (AR) or Dynamic Load Balancing (DLB) features available on the Spectrum-X switches to dynamically adjust paths based on network conditions.**

Answer: E

Explanation:

Adaptive Routing (AR) and Dynamic Load Balancing (DLB) are features specifically designed to dynamically adjust paths based on real-time network conditions in Spectrum-X. This provides the most granular and automated way to respond to congestion and optimize traffic flow compared to static routing or global ECMP adjustments. QOS prioritizes, but doesn't change the chosen path.

NEW QUESTION # 185

You are monitoring a server with 8 GPUs used for deep learning training. You observe that one of the GPUs reports a significantly lower utilization rate compared to the others, even though the workload is designed to distribute evenly. 'nvidia-smi' reports a persistent "XID 13" error for that GPU. What is the most likely cause?

- A. A driver bug causing incorrect workload distribution.
- B. The GPU's compute mode is set to 'Exclusive Process'.
- C. Insufficient system memory preventing data transfer to that GPU.

- D. A hardware fault within the GPU, such as a memory error or core failure.
- E. An incorrect CUDA version installed.

Answer: D

Explanation:

XID 13 errors in 'nvidia-smi' typically indicate a hardware fault within the GPU. Driver bugs or memory issues would likely cause different error codes or system instability across multiple GPUs. CUDA version mismatch might prevent the application from running altogether, but is less likely to lead to a specific XID error on a single GPU. Exclusive Process mode will lead to it being used by a different process but not necessarily cause that XID error.

NEW QUESTION # 186

You are installing four NVIDIA A100 GPUs into a server designed for AI training. The server motherboard has multiple PCIe Gen4 x16 slots. However, the server's power supply unit (PSU) only has three 8-pin PCIe power connectors available. What is the BEST course of action to ensure all GPUs receive adequate power?

- A. Underclock the GPUs significantly to reduce their power consumption below the available PSU capacity.
- B. Use a PCIe power splitter cable on one of the 8-pin connectors to power two GPUs.
- C. Install only three GPUs and leave the fourth unpowered.
- D. Replace the existing PSU with a higher wattage PSU that has at least four 8-pin PCIe power connectors.
- E. Connect the GPUs using the motherboard's internal SATA power connectors.

Answer: D

Explanation:

Using a splitter can overload the original connector and cause instability or damage. Leaving a GPU unpowered defeats the purpose. SATA connectors are not designed for the high power requirements of GPUs. Underclocking might work, but is not a reliable long-term solution. Replacing the PSU is the safest and most reliable solution.

NEW QUESTION # 187

A large A1 model is training using a dataset stored on a network-attached storage (NAS) device. The data transfer speeds are significantly lower than expected. After initial troubleshooting, you discover that the MTU (Maximum Transmission Unit) size on the network interfaces of the training server and the NAS device are mismatched. The server is configured with an MTU of 1500, while the NAS device is configured with an MTU of 9000 (Jumbo Frames). What is the MOST likely consequence of this MTU mismatch, and what action should you take?

- A. The connection between the server and the NAS device will be unreliable, resulting in data corruption. Increase the MTU size on both devices to the maximum supported value.
- B. Data packets will be fragmented, leading to increased overhead and reduced performance. Configure both the server and the NAS device to use the same MTU size (either 1500 or 9000).
- C. Data packets will be retransmitted, increasing the latency but still getting the full throughput. Configure the server to use Path MTU Discovery (PMTUD).
- D. The data transfer will be limited to the lowest common MTU size, but there will be no significant performance impact. No action is required.
- E. The server will be unable to communicate with the NAS device. Reduce the MTU size on the server to match the MTU size of the NAS device.

Answer: B

Explanation:

An MTU mismatch (option A) will cause fragmentation, where larger packets are broken down into smaller packets before being transmitted, adding overhead and reducing performance. The solution is to configure both devices to use the same MTU size. Choosing 1500 ensures compatibility, while 9000 requires the entire network path to support jumbo frames.

NEW QUESTION # 188

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