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NVIDIA AI Infrastructure Sample Questions (Q16-Q21):

NEW QUESTION # 16

A data scientist reports that training performance on a DGX A100 server has significantly degraded over the past week. 'nvidia-smi' shows all GPUs functioning, but 'nvprof' reveals substantially increased 'cudaMemcpy' times. What is the MOST likely bottleneck?

- A. The CPU is heavily loaded, causing contention for system memory bandwidth.
- B. The NVLink connections between GPUs are failing, forcing data transfers through PCIe.
- C. The PCIe bus is saturated, limiting data transfer speeds between the CPU and GPUs.
- D. The GPUs are overheating, causing thermal throttling and slower memory transfers.
- E. The storage system is slow, delaying data loading and preprocessing.

Answer: A

Explanation:

Increased 'cudaMemcpy' times indicate a bottleneck in data transfer between the CPU and GPU memory itself. While PCIe saturation or failing NVLink connections could contribute, a heavily loaded CPU is often the primary culprit. CPU-bound preprocessing tasks or general system load can create contention for system memory, slowing down data movement to the GPUs. The NVLink being used is less likely because 'nvidia-smi' would likely report errors or lower speeds between the GPUs.

NEW QUESTION # 17

When setting up a multi-server, multi-GPU environment using NVLink switches, what is the primary consideration when planning the network topology for optimal performance?

- A. Ensuring all servers are on the same subnet for ease of configuration.
- B. Placing servers near the network's edge to reduce latency.
- C. Minimizing the number of hops between GPUs that need to communicate frequently.
- D. Maximizing the distance between servers to improve cooling.
- E. Using a star topology for simplified management.

Answer: C

Explanation:

The primary goal is to reduce latency and maximize bandwidth. Minimizing hops between frequently communicating GPUs is essential for achieving this. Server placement for cooling is a secondary concern, and topology choice should prioritize performance over simplicity. Subnet configuration and server placement relative to the network edge are less critical for NVLink-specific performance.

NEW QUESTION # 18

You are installing eight NVIDIA A100 GPUs in a server designed for maximum performance. The server supports NVLink. Which of the following actions will BEST improve the inter-GPU communication bandwidth?

- A. Installing the GPUs in PCIe Gen3 slots instead of PCIe Gen4 slots.
- B. Only installing four of the eight GPUs to reduce the total number of connections needed.
- C. Disabling NVLink in the BIOS/UEFI settings.
- D. Using a standard PCIe riser card for all GPUs.
- E. Ensuring the GPUs are placed in slots that support NVLink bridges and that the bridges are properly installed.

Answer: E

Explanation:

NVLink provides significantly higher bandwidth than PCIe for inter-GPIJ communication. Installing the GPUs in slots that support NVLink and properly installing the NVLink bridges will enable this faster communication. PCIe Gen4 is better than Gen3. Riser

cards don't improve communication bandwidth. Disabling NVLink negates its benefits. Removing GPUs reduces overall performance.

NEW QUESTION # 19

Given the following 'nvswitch-cl' output, what does the 'Link Speed' indicate, and what potential bottleneck might a low 'Link Speed' suggest?

- A. It indicates the power consumption of the NVLink switch; a high value suggests overheating issues.
- B. It indicates the NVLink protocol version; a low value suggests firmware incompatibility.
- C. It indicates the clock speed of the GPU memory; a low value suggests a memory bottleneck.
- D. It indicates the PCIe generation supported by the GPU; a low value suggests an outdated GPU.
- E. **It indicates the effective bandwidth of the NVLink connection; a low value suggests a potential cable issue or misconfiguration.**

Answer: E

Explanation:

The 'Link Speed' in 'nvswitch-cl' output refers to the effective bandwidth of the NVLink connection between the GPUs and the switch. A low value compared to the expected speed indicates a potential problem with the NVLink cables, their connections, or misconfiguration that's preventing the link from operating at its full potential. It is not related to memory clock, PCIe, or NVLink protocol version but direct NVLink performance.

NEW QUESTION # 20

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

Answer: C

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 # 21

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