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NVIDIA AI Infrastructure Sample Questions (Q56-Q61):

NEW QUESTION # 56
You are configuring a Mellanox InfiniBand network for a DGXAIOO cluster. What is the RECOMMENDED subnet manager for a large, high-performance A1 training environment, and why?

- A. OpenSM, because it's the default and easiest to configure.
- B. UFM (Unified Fabric Manager), because it provides advanced management, monitoring, and optimization capabilities.
- C. Any subnet manager; the performance difference is negligible.
- D. A custom-built subnet manager using the InfiniBand verbs API.
- E. IBA management tools that ship with the OS (e.g., 'ibnetdiscover').

Answer: B

Explanation:
UFM is the recommended subnet manager for large A1 training environments using DGX systems. It offers advanced features like real-time monitoring, congestion control, adaptive routing, and telemetry, which are crucial for maximizing performance and stability in demanding workloads. OpenSM lacks these advanced features and is not suitable for large, performance-critical clusters.

NEW QUESTION # 57
You're setting up a cluster with 8 NVIDIA A100 GPUs. Each GPU needs to read 4GB/s from storage to keep it fully utilized. The network connecting the storage and compute nodes has a bandwidth of 25GB/s. What is the maximum number of GPUs that can be simultaneously saturated with data without exceeding the network bandwidth?

- A. 0
- B. 1
- C. 2
- D. 3
- E. 4

Answer: A

Explanation:
Each GPU requires 4GB/s of bandwidth. The network has a bandwidth of 25GB/s. Therefore, the maximum number of GPUs that can be saturated is 25GB/s / 4GB/s per GPU = 6.25 GPUs. Since you can't have a fraction of a GPU, the answer is 6 GPUs.

NEW QUESTION # 58
You are troubleshooting a performance issue on an Intel Xeon server with NVIDIAAI 00 GPUs. Your application involves frequent data transfers between CPU memory and GPU memory. You suspect that the PCIe bus is a bottleneck. How can you verify and mitigate this bottleneck?

- A. Use 'nvidia-smi' to monitor the PCIe bandwidth utilization of the GPUs. If it's consistently high (near the theoretical limit), the PCIe bus is likely a bottleneck. Mitigate by reducing the frequency of CPU-GPU data transfers, using pinned (page-locked) memory, and ensuring that the GPUs are connected to PCIe slots with sufficient bandwidth.
- B. Use 'nvprof to profile the application and identify the exact lines of code that are causing the high PCIe traffic. Optimize those sections of code to reduce data transfers.
- C. Monitor the GPU temperature. If it's high, the PCIe bus is likely overheating. Mitigate by improving the server's cooling.
- D. Examine the system logs for PCIe errors. If there are many errors, the PCIe bus is likely unstable. Mitigate by reseating the GPUs and checking the power supply.
- E. Check the CPU utilization. If it's low, the PCIe bus is likely the bottleneck. Mitigate by increasing the number of CPU cores assigned to the data transfer tasks.

Answer: A,B

Explanation:
'nvidia-smi' allows monitoring PCIe bandwidth utilization, directly indicating a bottleneck. Pinned memory helps with efficient DMA

transfers. Reducing transfer frequency and code optimization using 'nvprof are valid mitigation strategies. Low CPU utilization doesn't necessarily indicate PCIe bottleneck. PCIe errors indicate instability, not necessarily high utilization. GPU temperature is related to cooling, not directly the PCIe bus being a bottleneck.

NEW QUESTION # 59

You're optimizing an AMD EPYC server with 4 NVIDIAAIOO GPUs for a large language model training workload. You observe that the GPUs are consistently underutilized (50-60% utilization) while the CPUs are nearly maxed out. Which of the following is the MOST likely bottleneck?

- A. The storage system (SSD/NVMe) is too slow, leading to data starvation.
- B. Insufficient CPU cores to prepare and feed data to the GPUs.
- C. The PCIe interconnect between the CPUs and GPUs is saturated.
- D. The NCCL (NVIDIA Collective Communications Library) is not properly configured for inter-GPU communication.
- E. The system RAM is too small, causing excessive swapping.

Answer: B

Explanation:
When CPUs are maxed out and GPUs are underutilized, it suggests that the CPUs are unable to keep up with the data preparation and feeding requirements of the GPUs. Insufficient CPU cores become the bottleneck. While other options can contribute, the CPU being the primary bottleneck is the most likely cause in this scenario.

NEW QUESTION # 60

When deploying BlueField OS using PXE boot, which of the following files on the PXE server is responsible for specifying the kernel, initrd, and device tree files to be loaded by the client?

- A. /boot/grub/grub.cfg
- B. tftpboot/lpxelinux.0
- C. dhcpd .conf
- D. pxelinux.cfg/default
- E. tftpboot/pxelinux.0

Answer: D

Explanation:
The 'pxelinux.cfg/default' file (or a similar configuration file based on the client's MAC address or IP address) contains the configuration directives for the PXE bootloader, including specifying the kernel, initrd, and device tree files. 'dhcpd.conf is for DHCP server configuration, 'pxelinux.ff is the PXE bootloader itself, and '/boot/grub/grub.cfg' is a GRUB configuration file, usually on the client's disk.

NEW QUESTION # 61

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