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NVIDIA AI Infrastructure Sample Questions (Q165-Q170):

NEW QUESTION # 165
You're deploying a new cluster with multiple NVIDIA AIOO GPUs per node. You want to ensure optimal inter-GPU communication performance using NVLink. Which of the following configurations are critical for achieving maximum NVLink bandwidth?

- A. The server must use a specific CPU model to leverage NVLink capabilities.
- B. The NVIDIA driver must be configured to enable NVLink; it is disabled by default.
- C. The motherboard must support PCle Gen5 to maximize NVLink bandwidth.
- D. All GPUs within a node must be the same model and have identical firmware versions.
- E. GPUs should be physically installed in slots that maximize direct NVLink connections based on the server's architecture.

Answer: D,E

Explanation:
For optimal NVLink performance, several conditions must be met. GPUs of the same model and firmware ensure compatibility and prevent performance bottlenecks. Physical placement is critical; GPUs must be installed in slots that maximize direct NVLink connections, as defined by the server's architecture and documentation. While PCle Gen5 is beneficial for overall system performance, it does not directly impact NVLink bandwidth. NVLink is typically enabled by default. Some CPU models may be preferable, but it's the motherboard's NVLink topology that is more important.

NEW QUESTION # 166
You're optimizing an AMD EPYC server with 4 NVIDIA AIOO 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. The PCle interconnect between the CPUs and GPUs is saturated.
- C. Insufficient CPU cores to prepare and feed data to the GPUs.
- 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: C

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 # 167
You are using MIG (Multi-Instance GPU) on an NVIDIA AI 00 GPU within a Kubernetes cluster. You want to configure a pod to use a specific MIG instance. How do you define the GPU resource request in the pod's YAML definition?

- A. Specify the MIG device profile name (e.g., 'nvidia.com/mig-1g.7gb: 1 in the resource request.
- B. Using the annotation 'nvidia.com/gpu.product' and the value of the particular GPU device you desire.
- C. Use a custom resource definition (CRD) to define MIG instances and reference it in the resource request.
- D. Use a generic resource request like 'nvidia.com/gpu: 0.125' to allocate a portion of the GPIJ.
- E. Specify the full GPU ID (e.g., 'nvidia.com/gpu: 1') in the resource request.

Answer: A

Explanation:
When using MIG, you need to specify the MIG device profile name in the resource request to allocate a specific MIG instance to the pod. For example, 'nvidia.com/mig-1g.7gb: 1' requests one instance of the lg.7gb MIG profile. Specifying the full GPU ID will not work with MIG. Generic resource requests do not work with MIG.

NEW QUESTION # 168

You are running a distributed training job across multiple nodes, using a shared file system for storing training dat a. You observe that some nodes are consistently slower than others in reading data. Which of the following could be contributing factors to this performance discrepancy? Select all that apply.

- A. Uneven data distribution across the storage nodes.
- B. Network congestion between the slower nodes and the storage system.
- C. Variations in the speed of the local temporary storage (e.g., /tmp) used for intermediate files.
- D. Insufficient RAM on the slower nodes for caching data.
- E. Different CPU architectures on the nodes.

Answer: A,B,D

Explanation:
Network congestion (A) can directly impact the data transfer rate between the slower nodes and the storage. IJneven data distribution (B) means some storage nodes are more heavily loaded, leading to slower response times for nodes accessing data on those overloaded nodes. Insufficient RAM (D) limits the amount of data that can be cached locally, forcing more frequent reads from the slower storage system. CPU architecture (C) primarily affects compute performance, not 1/0. The speed of /tmp (E) is relevant if the training job uses local storage extensively for temporary files, but the question focuses on reading training data from the shared file system.

NEW QUESTION # 169

An AI server with 8 GPUs is experiencing random system crashes under heavy load. The system logs indicate potential memory errors, but standard memory tests (memtest86+) pass without any failures. The GPUs are passively cooled. What are the THREE most likely root causes of these crashes?

- A. A faulty power supply unit (PSU) that is unable to provide stable power under peak load.
- B. Insufficient airflow within the server, leading to overheating of the GPUs and VRMs.
- C. GPIJ memory errors that are not detectable by standard CPU-based memory tests.
- D. Incompatible NVIDIA driver version with the installed Linux kernel.
- E. Network congestion causing intermittent data corruption during distributed training.

Answer: A,B,C

Explanation:
GPU memory errors (B) are a strong possibility, as CPU-based tests don't test GPU memory directly. Insufficient airflow (C) is likely due to the passive cooling, leading to thermal instability. A faulty PSU (D) can cause random crashes under load due to power fluctuations. Driver incompatibility (A) is less likely to cause random crashes after initial setup, and network congestion (E) usually results in training slowdowns rather than system crashes.

NEW QUESTION # 170

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