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NVIDIA AI Infrastructure Sample Questions (Q72-Q77):

NEW QUESTION # 72

You encounter an error during MIG instance creation using 'nvidia-smi' stating 'Insufficient GPU resources'. Which of the following could be the cause? (Select all that apply)

- A. The GPU is in a bad state and needs to be reset.
- B. The GPU is already fully utilized by other MIG instances or processes.
- C. The requested MIG configuration exceeds the GPU's available resources (e.g., compute or memory).
- D. There is no error; MIG always creates instances regardless of resources.
- E. The NVIDIA driver version is outdated and does not support the requested MIG configuration.

Answer: B,C,E

Explanation:

The 'Insufficient GPU resources' error indicates that the requested MIG instance creation cannot be fulfilled due to limitations in

available resources (A) such as compute or memory. Outdated drivers (B) may not support the requested MIG configurations and hence can lead to resource management problems. When other instances or processes already consume all available resources (C), the operation can't continue. A GPU in a bad state might cause issues, but the specific error message points to resource exhaustion more directly. MIG does not bypass resource checks (E).

NEW QUESTION # 73

You're optimizing an AMD EPYC server with 4 NVIDIA A100 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. Insufficient CPU cores to prepare and feed data to the GPUs.
- B. The NCCL (NVIDIA Collective Communications Library) is not properly configured for inter-GPU communication.
- C. The PCIe interconnect between the CPUs and GPUs is saturated.
- D. The system RAM is too small, causing excessive swapping.
- E. The storage system (SSD/NVMe) is too slow, leading to data starvation.

Answer: A

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 # 74

You are running a distributed training job across multiple nodes, using a shared file system for storing training data. 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. Different CPU architectures on the nodes.
- C. Insufficient RAM on the slower nodes for caching data.
- D. Variations in the speed of the local temporary storage (e.g., /tmp) used for intermediate files.
- E. Network congestion between the slower nodes and the storage system.

Answer: A,C,E

Explanation:

Network congestion (A) can directly impact the data transfer rate between the slower nodes and the storage. Uneven 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 I/O. 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 # 75

A user reports that their deep learning training job is crashing with a 'CUDA out of memory' error, even though 'nvidia-smi' shows plenty of free memory on the GPU. The job uses TensorFlow. What are the TWO most likely causes?

- A. The CUDA_VISIBLE_DEVICES environment variable is not set correctly.
- B. TensorFlow is fragmenting GPU memory, making it difficult to allocate contiguous blocks.
- C. The system's swap space is full, preventing memory from being allocated.
- D. TensorFlow is allocating memory on the CPU instead of the GPU.
- E. The TensorFlow version is incompatible with the installed NVIDIA driver.

Answer: A,B

Explanation:

'CUDA out of memory' errors, despite seemingly available GPU memory, often indicate memory fragmentation or improper GPU

assignment. TensorFlow can fragment GPU memory, leading to allocation failures even if sufficient total memory is available. The variable controls which GPUs TensorFlow can access. If it's not set or is set incorrectly, TensorFlow might be trying to allocate memory on a non-existent or unavailable GPU. While TensorFlow version incompatibilities can cause issues, they are less likely to directly manifest as 'CUDA out of memory' errors. TensorFlow typically prioritizes GPU memory allocation if configured correctly.

NEW QUESTION # 76

You have installed the NVIDIA Container Toolkit and are attempting to run a container with GPU support. However, the 'docker run' command fails with an error indicating that the NVIDIA runtime is not found. You have already verified that the NVIDIA Container Toolkit is installed, and the Docker daemon has been restarted. What is the most likely cause of this error?

- A. The container image is corrupted and needs to be rebuilt.
- B. The NVIDIA driver version is incompatible with the CUDA version specified in the container image.
- C. The '/etc/docker/daemon.json' file is missing or has incorrect configuration settings related to the NVIDIA runtime.
- D. The system doesn't have a GPU.
- E. The 'nvidia-container-runtime' package is not installed.

Answer: C

Explanation:

The most likely cause is an issue with the '/etc/docker/daemon.json' file (A). This file configures Docker's runtime settings, including specifying the NVIDIA runtime. If the file is missing or has incorrect entries, Docker will not be able to find the NVIDIA runtime. While driver incompatibility (B) can cause issues, it typically manifests as runtime errors within the container, not a failure to find the runtime itself. 'nvidia-container-runtime' might be a required package depending on the installation method. A missing GPU is unlikely since the Toolkit would likely fail to install, although this is also an error that can prevent the NVIDIA runtime from being started.

NEW QUESTION # 77

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