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NVIDIA AI Infrastructure Sample Questions (Q124-Q129):

NEW QUESTION # 124

Your AI training workload involves a large dataset stored in an object storage system (like AWS S3). You notice that fetching data directly from S3 during training is a bottleneck. Which of the following strategies can significantly improve data loading performance?

- A. Increase the number of S3 request retries
- B. Reduce the number of concurrent data loaders
- C. Switch to a different object storage provider
- D. Use a caching layer (e.g., using Alluxio or JuiceFS) to cache frequently accessed data locally or on faster storage
- E. Use S3 Glacier for data storage.

Answer: D

Explanation:

A caching layer brings frequently accessed data closer to the compute nodes, reducing latency and improving throughput. Increasing retries only addresses transient errors. Reducing data loaders worsens performance. Switching providers might not solve the underlying latency issue. S3 Glacier is for archival, so will result in worse performance.

NEW QUESTION # 125

A GPU in your AI server consistently overheats during inference workloads. You've ruled out inadequate cooling and software bugs.

Running 'nvidia-smi' shows high power draw even when idle. Which of the following hardware issues are the most likely causes?

- A. A failing voltage regulator module (VRM) on the GPU board, causing excessive power leakage.
- B. Insufficient system RAM.
- C. Incorrectly seated GPU in the PCIe slot, leading to poor power delivery.
- D. Degraded thermal paste between the GPU die and the heatsink.
- E. A BIOS setting that is overvolting the GPU.

Answer: A,C,D

Explanation:

Degraded thermal paste loses its ability to conduct heat effectively. A failing VRM can cause excessive power draw and heat generation. An incorrectly seated GPU can cause instability and poor power delivery, leading to overheating. Overvolting in BIOS will definitely cause overheating. While insufficient RAM can cause performance issues, it is less likely to lead to overheating.

NEW QUESTION # 126

Which command-line tool is typically used to monitor the status and performance of an NVIDIA NVLink Switch?

- A. nvswitch-cli
- B. nvidia-smi
- C. ibstat
- D. Ispci
- E. rocminfo

Answer: A

Explanation:

While 'nvidia-smi' provides information about GPUs, 'nvswitch-cli' (or a similar vendor-provided tool, depending on the specific switch) is specifically designed for managing and monitoring the NVLink Switch itself. 'ibstat' is for Infiniband, 'rocminfo' for AMD GPUs and 'Ispci' list PCI devices.

NEW QUESTION # 127

You have installed NVIDIA drivers using the '.run' installer on a system running Ubuntu. However, after each kernel update, the NVIDIA drivers stop working. What is the most effective way to address this issue permanently?

- A. Disable automatic kernel updates.
- B. Use DKMS (Dynamic Kernel Module Support) to automatically rebuild the NVIDIA kernel modules after each kernel update.
- C. Create a script that symlinks the old kernel modules to the new kernel directory.
- D. Re-run the '.run' installer after each kernel update.
- E. Manually compile the NVIDIA kernel modules after each kernel update.

Answer: B

Explanation:

DKMS (Dynamic Kernel Module Support) is the most effective solution. It automatically rebuilds kernel modules (like NVIDIA's) whenever a new kernel is installed. Re-running the 'run' installer is a manual and error-prone process. Disabling kernel updates is not recommended for security reasons. Manually compiling is complex and time-consuming. Symlinking old modules is unlikely to work due to kernel API changes.

NEW QUESTION # 128

You're troubleshooting a DGX-I server exhibiting performance degradation during a large-scale distributed training job. 'nvidia-smi' shows all GPUs are detected, but one GPU consistently reports significantly lower utilization than the others. Attempts to reschedule workloads to that GPU frequently result in CUDA errors. Which of the following is the MOST likely cause and the BEST initial troubleshooting step?

- A. A driver issue affecting only one GPU; reinstall NVIDIA drivers completely.
- B. A hardware fault with the GPU, potentially thermal throttling or memory issues; run 'nvidia-smi -i -q' to check temperatures, power limits, and error counts.
- C. Power supply unit (PSU) overload, causing reduced power delivery to that GPU; monitor PSU load and check PSU specifications.
- D. Insufficient cooling in the server rack; verify adequate airflow and cooling capacity for the rack.
- E. A software bug in the training script utilizing that specific GPU's resources inefficiently; debug the training script.

Answer: B

Explanation:

While all options are possibilities, the consistently lower utilization and CUDA errors point strongly to a hardware fault. Running 'nvidia-smi -i -q' provides detailed telemetry data, including temperature, power limits, and ECC error counts, which are crucial for diagnosing GPU hardware issues.

NEW QUESTION # 129

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