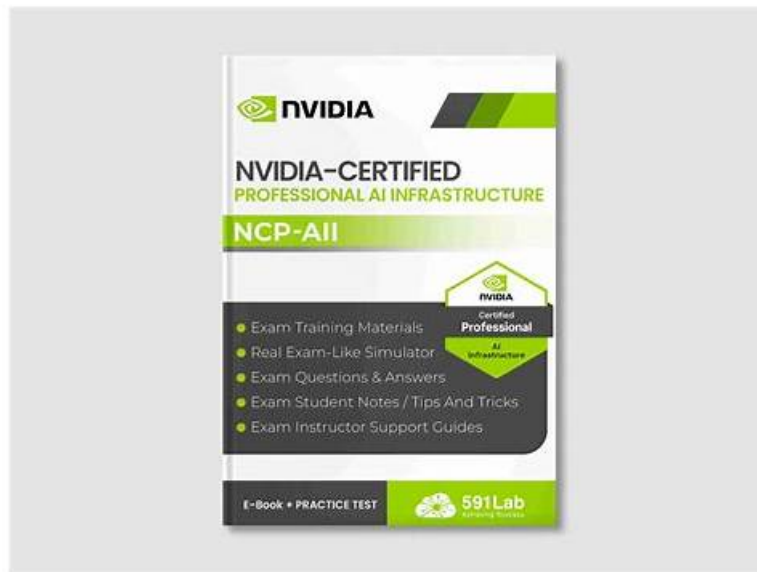


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NVIDIA AI Infrastructure Sample Questions (Q43-Q48):

NEW QUESTION # 43

Consider the following simplified CUDA code snippet intended to perform a vector addition:

What are critical steps to validate that this code is correctly utilizing the GPU hardware and producing accurate results?

- A. Ensure that 'blocksPerGrid' and 'threadsPerBlock' are appropriately chosen to maximize GPU occupancy, potentially using the NVIDIA CUDA Occupancy Calculator.
- B. After the 'cudaMemcpy' from device to host, compare the 'c' array to a CPU-based vector addition result to verify correctness.
- C. Use 'cudaDeviceSynchronize()' after launching the kernel to ensure the GPU computations are complete before copying data back to the host.
- D. Run the code with 'cuda-memcheck' to detect memory access errors or race conditions.
- E. All of the above

Answer: E

Explanation:

All options highlight important validation steps. Optimizing block/thread configuration maximizes GPU utilization. Verifying results against a CPU-based calculation ensures correctness. 'cudaDeviceSynchronize()' guarantees GPU computations are finished before data transfer. 'cuda-memcheck' detects memory errors. Failing to do any of these could lead to subtle errors or performance bottlenecks.

NEW QUESTION # 44

You are tasked with diagnosing performance issues on a GPU server running a large-scale HPC simulation. The simulation utilizes multiple GPUs and InfiniBand for inter-GPU communication. You suspect that RDMA (Remote Direct Memory Access) is not functioning correctly. How would you comprehensively test and verify the proper operation of RDMA between the GPUs?

- A. Monitor CPU utilization during the simulation; high CPU usage suggests that RDMA is not offloading communication effectively.
- B. Use 'ping' to verify basic network connectivity between the server's InfiniBand interfaces.
- C. Utilize NCCL's internal diagnostic tools to verify proper inter-GPU communication within the simulation.
- D. Run 'nvidia-smi topo -m' to check the GPU interconnect topology and verify that NVLink or PCIe is being used for communication.
- E. Employ and from the 'perftest' suite to measure RDMA bandwidth and latency between GPUs.

Answer: C,D,E

Explanation:

(A) and (B) directly measure RDMA performance. 'nvidia-smi topo -m' (C) verifies the physical interconnect. NCCL diagnostic tools (D) confirm application-level communication. 'ping' (A) only tests basic network connectivity, not RDMA functionality. While high CPU usage (E) can indicate RDMA issues, it's an indirect symptom, not a direct test.

NEW QUESTION # 45

Which of the following is the MOST critical consideration when planning the cooling strategy for a server rack containing multiple NVIDIA A100 GPUs?

- A. Optimizing airflow to ensure hot air is efficiently exhausted from the rack and cool air is drawn in.
- B. Ensuring the server room temperature is kept below 25 degrees Celsius.
- C. Using liquid cooling for the CPUs, but air cooling for the GPUs.
- D. Applying thermal paste to the GPU memory chips.
- E. Increasing the fan speed of the server chassis fans to maximum.

Answer: A

Explanation:

While ambient temperature is important, optimized airflow is crucial for removing the heat generated by the GPUs. Focusing solely on CPU cooling neglects the GPU heat. Applying thermal paste to memory chips is generally unnecessary unless specifically recommended by the manufacturer. Maximizing fan speed can help, but efficient airflow design is more effective.

NEW QUESTION # 46

You have a dataset with many small files (e.g., images). Directly reading these files can result in high metadata access overhead. What are the MOST effective strategies to mitigate this problem?

- A. Combine small files into larger archive files (e.g., using TAR or HDF5)
- B. Use a key-value store (e.g., LevelDB, RocksDB) to store the file data and metadata
- C. Store the files on a file system with very small block sizes
- D. Replicate the dataset to increase read availability
- E. Increase the number of metadata servers in the parallel file system

Answer: A,B,E

Explanation:

Combining small files reduces the number of metadata operations. A key-value store can provide efficient access to small data items. Increasing metadata servers reduces the load on individual metadata servers. Smaller block sizes exacerbate the problem. Replicating data doesn't address metadata overhead.

NEW QUESTION # 47

What is the primary function of the NVIDIA Container Toolkit, and how does it facilitate the use of GPUs within containerized environments? (Multiple Answers)

- A. It allows containers to access and utilize NVIDIA GPUs by injecting the necessary drivers and libraries into the container runtime environment.
- B. It provides a set of command-line tools for managing NVIDIA drivers on the host system.
- C. It manages the lifecycle of containers running GPU-accelerated workloads.
- D. It enables monitoring of GPU utilization within containers.
- E. It automatically installs the necessary NVIDIA drivers inside the container.

Answer: A,D

Explanation:

The NVIDIA Container Toolkit allows containers to access and utilize NVIDIA GPUs by injecting the necessary drivers and libraries into the container runtime environment and It enables monitoring of GPU utilization within containers. While it requires proper drivers to be installed, the toolkit does not manage host drivers directly. The NVIDIA container toolkit relies on container runtimes, and container runtimes manage the container lifecycle. The container toolkit does not automatically install drivers inside containers.

NEW QUESTION # 48

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