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NVIDIA AI Infrastructure Sample Questions (Q61-Q66):

NEW QUESTION # 61

After successfully installing the NVIDIA Container Toolkit and configuring Docker, you're attempting to build a container image that leverages the GPU. You're using a Dockerfile but encounter the following error during the 'docker build' process: 'error during connect: this error may indicate that the docker daemon is not running'. However, the Docker daemon IS running. What is the most likely reason the build process is failing to connect, specifically in the context of GPU-enabled containers?

- A. The `-gpus all` flag (or similar) needs to be passed to the 'docker build' command to enable GPU access during the build process, as it is needed for building images that require cuda.
- B. The user executing the 'docker build' command does not belong to the 'docker' group.
- C. The Docker daemon is configured to use a different networking driver than the one expected by the NVIDIA Container Toolkit.
- D. The Docker daemon does not have sufficient permissions to access the NVIDIA GPUs.
- E. The container requires more memory than the host is providing and the docker build command exited due to OOM.

Answer: A

Explanation:

The error 'error during connect: this error may indicate that the docker daemon is not running' during a 'docker build', when the daemon actually is running, can indicate a failure to connect to the daemon for a specific reason related to GPU access. 'docker build' requires `-gpus all` to be passed in order for CUDA to correctly build the image. Permissions(A) are unlikely to cause this specific connection error. User group issues(B) are usually related to running containers, not building them. A networking issue (D) is possible but less likely in the context of a local build. The same can be said for container exceeding the hosts' available memory.

NEW QUESTION # 62

You are tasked with configuring an NVIDIA NVLink Switch system. After physically connecting the GPUs and the switch, what is the typical first step in the software configuration process?

- A. Configuring the system BIOS to enable NVLink support.
- B. Installing the NVLink Switch management software.
- C. Updating the firmware of the NVLink Switch.
- D. Installing the latest NVIDIA drivers on all connected GPUs.
- E. Running a memory bandwidth test between all connected GPUs.

Answer: C

Explanation:

Updating the NVLink Switch firmware is crucial for ensuring compatibility and stability with the connected GPUs and the overall system. It addresses potential bugs, security vulnerabilities, and performance issues. It should always be done first before any other software configuration. BIOS settings should be checked beforehand, and the NVLink management software comes after the firmware update.

NEW QUESTION # 63

Which of the following are crucial considerations when validating the hardware operation of an NVIDIA-Certified Professional AI Infrastructure server before deploying a production AI workload? (Select all that apply)

- A. Checking if the server's case fans are spinning.
- B. Ensuring the BIOS and BMC firmware are up to date.
- C. Only testing the GPUs with a synthetic benchmark like 'linpack'.
- D. Verifying that the server's power supply units (PSUs) are operating within their specified voltage and current ranges under full load.
- E. Confirming the correct installation and functionality of all network interfaces (e.g., Ethernet, InfiniBand) relevant to the workload.

Answer: B,D,E

Explanation:

Validating hardware operation involves checking BIOS/BMC firmware for compatibility and security updates, ensuring PSUs are within operating parameters, and verifying network interface functionality. Synthetic benchmarks alone aren't sufficient; the fans spinning is a basic check, but doesn't validate actual cooling performance under load. Complete hardware validation involves a broad range of checks to prevent later issues.

NEW QUESTION # 64

A data scientist reports that training performance on a DGX A100 server has significantly degraded over the past week. 'nvidia-smi' shows all GPUs functioning, but 'nvprof' reveals substantially increased 'cudaMemcpy' times. What is the MOST likely bottleneck?

- A. The storage system is slow, delaying data loading and preprocessing.
- B. The PCIe bus is saturated, limiting data transfer speeds between the CPU and GPUs.
- C. The CPU is heavily loaded, causing contention for system memory bandwidth.
- D. The GPUs are overheating, causing thermal throttling and slower memory transfers.
- E. The NVLink connections between GPUs are failing, forcing data transfers through PCIe.

Answer: C

Explanation:

Increased cudaMemcpy times indicate a bottleneck in data transfer between the CPU and GPUs or within the GPU memory itself. While PCIe saturation or failing NVLink connections could contribute, a heavily loaded CPU is often the primary culprit. CPU-bound preprocessing tasks or general system load can create contention for system memory, slowing down data movement to the GPUs. The NVLink being used is less likely because 'nvidia-smi' would likely report errors or lower speeds between the GPUs.

NEW QUESTION # 65

An A1 server is exhibiting unusually high CPU utilization during a GPU-accelerated workload. How can you determine if the CPU is becoming a bottleneck, preventing the GPUs from achieving their full potential?

- A. Monitor CPU utilization using 'top' or 'htop' while the workload is running; sustained high utilization suggests a bottleneck.
- B. Profile the application with a CPU profiler (e.g., 'perf') to identify CPU-bound functions.
- C. Use 'nvidia-smi' to check the GPU utilization; low GPU utilization combined with high CPU utilization indicates a potential CPU bottleneck.
- D. All of the above
- E. Run a CPU-intensive benchmark in parallel with the GPU workload to observe performance degradation.

Answer: D

Explanation:

All the options provide valid methods for identifying a CPU bottleneck. Monitoring CPU and GPU utilization, profiling the application, and running parallel benchmarks all help to determine if the CPU is limiting GPU performance.

NEW QUESTION # 66

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