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NVIDIA AI Infrastructure Sample Questions (Q193-Q198):

NEW QUESTION # 193

You've installed a DGX A100 server During the initial hardware validation, you observe that one of the GPUs is consistently reporting lower performance compared to the others. Which troubleshooting steps should you take, in the CORRECT order, to diagnose the problem?

- A. 1. Check the power supply connections. 2. Check GPU temperature. 3. Reseat the GPIJ. 4. Run GPU diagnostics.
- B. 1. Check GPU temperature. 2. Reseat the GPU. 3. Run GPU diagnostics. 4. Update the GPU driver.

- C. 1. Reseat the GPU. 2. Check GPU temperature. 3. Update the GPU driver. 4. Run GPU diagnostics.
- D. 1. Run GPU diagnostics. 2. Reseat the GPU. 3. Check GPU temperature. 4. Update the GPU driver.
- E. 1. Update the GPU driver. 2. Run GPU diagnostics. 3. Check GPU temperature. 4. Reseat the GPU.

Answer: B

Explanation:

Checking temperature is crucial first to avoid damaging the GPU if it's overheating. Reseating addresses potential connectivity issues. Running diagnostics identifies hardware faults. Updating the driver should be done after hardware checks to ensure the card isn't faulty.

NEW QUESTION # 194

You are troubleshooting a network performance issue in your NVIDIA Spectrum-X based A1 cluster. You suspect that the Equal-Cost Multi-Path (ECMP) hashing algorithm is not distributing traffic evenly across available paths, leading to congestion on some links. Which of the following methods would be MOST effective for verifying and addressing this issue?

- A. Use 'ping' or 'traceroute' to analyze the paths taken by packets between the affected nodes. If they always take the same path, ECMP is likely not working correctly.
- B. Use switch telemetry tools (e.g., NVIDIA What's Up Gold, Mellanox NEO, or similar) to monitor link utilization across all available paths between the nodes. Look for significant imbalances in traffic volume.
- C. Reduce the TCP window size.
- D. Disable ECMP entirely and rely solely on static routing.
- E. Restart the switches to force the ECMP hashing algorithm to recalculate paths.

Answer: B

Explanation:

Switch telemetry tools provide the most direct and comprehensive way to monitor link utilization and identify imbalances in traffic distribution caused by ECMP. While 'ping' and 'traceroute' can provide path information, they don't give insight into traffic volume. Restarting the switches might temporarily alleviate the issue but doesn't address the underlying problem with the ECMP hashing. Disabling ECMP is a last resort and can reduce overall bandwidth.

NEW QUESTION # 195

Which of the following are key considerations when choosing between CPU pinning and NUMA (Non-Uniform Memory Access) awareness for a distributed training job on a multi-socket AMD EPYC server with multiple GPUs?

- A. Neither CPU pinning nor NUMA awareness are relevant for GPU-accelerated workloads, as the GPUs handle all the computation.
- B. CPU pinning is generally more important than NUMA awareness because it directly impacts CPU utilization.
- C. NUMA awareness is generally more important than CPU pinning because it directly impacts memory bandwidth.
- D. Both CPU pinning and NUMA awareness are critical for optimizing performance. They should be used in conjunction to achieve optimal performance.
- E. CPU pinning ensures that each process/thread runs on a specific CPU core, reducing context switching overhead. NUMA awareness ensures that the CPU cores and memory used by a process are located within the same NUMA node, minimizing memory access latency.

Answer: D,E

Explanation:

CPU pinning and NUMA awareness are both important for optimizing performance on multi-socket systems. CPU pinning reduces context switching overhead, while NUMA awareness reduces memory access latency. Using them together provides the best performance. They ensure the CPU and memory being used are on the same node, which reduces latency. While GPUs handle intense computation, CPUs prepare and feed data to the GPUs, and are critical for performance.

NEW QUESTION # 196

After configuring MIG on an NVIDIA A100 GPU, you run 'nvidia-smi' and observe that all MIG instances are in the 'Disabled' state.

Which of the following are potential reasons for this issue? (Select all that apply)

- A. The GPU is not in MIG mode.
- B. The 'nvidia-persistenced' service is not running.
- C. The system's power supply is insufficient.
- D. The MIG instances are correctly configured but have not been allocated to any processes.
- E. The necessary NVIDIA drivers are not installed or are incompatible with the GPU.

Answer: A,B,E

Explanation:

MIG instances being in a 'Disabled' state indicates a fundamental problem with the MIG configuration. Incompatible drivers (A) will prevent the instances from being properly initialized. If the GPU is not explicitly placed into MIG mode (B), no MIG instances will be available. The 'nvidia-persistenced' service (D) ensures that driver state persists across reboots, and its absence can cause MIG instances to revert to a disabled state. While unallocated instances (C) will exist, they should be in an 'Idle' state, not 'Disabled'. An insufficient power supply (E) might prevent the GPU from functioning correctly, but it's less likely to specifically cause a 'Disabled' MIG state.

NEW QUESTION # 197

After installing a new NVIDIA GPU, you attempt to run a CUDA application, but you encounter the following error: 'CUDA error: CUDA driver version is insufficient for CUDA runtime version'. You have verified the driver and CUDA toolkit are installed. What is the MOST likely reason for this error, and how do you resolve it?

- A. The GPU is not compatible with the CUDA toolkit. Install a different GPU.
- B. The NVIDIA driver is too old for the CUDA toolkit. Update the NVIDIA driver to a version that supports the CUDA toolkit.
- C. The CUDA toolkit is too old. Update the CUDA toolkit.
- D. The CUDA_VISIBLE_DEVICES environment variable is not set correctly.
- E. The CUDA runtime libraries are missing from the system path. Add them to the PATH variable.

Answer: B

Explanation:

This error indicates an incompatibility between the driver and the CUDA toolkit. The most common reason is an outdated driver. The driver must be at least as new as the CUDA toolkit's minimum required driver version. CUDA_VISIBLE_DEVICES relates to GPU selection, not driver version.

NEW QUESTION # 198

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