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# **NVIDIA AI Infrastructure Sample Questions (Q128-Q133):**

## **NEW QUESTION # 128**

You are troubleshooting a performance issue with NVMe-oF traffic being accelerated by a BlueField-2 DPU. You suspect a problem with the RDMA configuration. Which of the following 'perfquery' commands would provide the MOST relevant information to diagnose potential RDMA issues such as packet loss or congestion?

- A. 'perfquery -P (port counters including packet loss and congestion)
- B. 'perfquery -G' (global counters)
- C. 'perfquery -s;' (switch statistics)
- D. 'perfquery -x' (general link statistics)
- E. 'perfquery (QOS statistics)

Answer: A

#### Explanation:

'perfquery -P' provides port counters, including critical information about packet loss, congestion, and other RDMA-related metrics at the port level. This is the MOST relevant command for diagnosing performance problems related to RDMA within an NVMe-oF setup. Other options provide less specific or relevant information.

#### **NEW OUESTION # 129**

You are configuring a server with multiple GPUs for CUDA-aware MPI. Which environment variable is critical for ensuring proper GPU affinity, so that each MPI process uses the correct GPU?

- A. CUDA LAUNCH BLOCKING-I
- B. CUDA DEVICE ORDER
- C. CUDA VISIBLE DEVICES
- D. LD LIBRARY PATH
- E. MPI GPU SUPPORT

#### Answer: C

#### Explanation:

'CUDA VISIBLE DEVICES' is essential for GPU affinity. It allows you to specify which GPUs are visible to a particular process. Without it, all processes might try to use the same GPU, leading to performance bottlenecks. controls the order in which GPUs are enumerated. specifies the path to shared libraries. is hypothetical. forces synchronous CUDA calls.

## **NEW QUESTION #130**

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. Both CPU pinning and NUMA awareness are critical for optimizing performance. They should be used in conjunction to achieve optimal performance.
- B. 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.
- C. NUMA awareness is generally more important than CPU pinning because it directly impacts memory bandwidth.
- D. Neither CPU pinning nor NUMA awareness are relevant for GPIJ-accelerated workloads, as the GPUs handle all the computation.
- E. CPU pinning is generally more important than NIJMA awareness because it directly impacts CPU utilization.

# Answer: A,B

#### Explanation:

CPU pinning and NUMA awareness are both important for optimizing performance on multi-socket systems. CPU pinning reduces context switching overhead, while NIJMA 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 #131**

After physically installing a new NVIDIA GPU in a server, you boot the system. You notice that the GPU is not recognized by the operating system. You've verified the card is properly seated and powered. What are the MOST LIKELY causes and solutions? (Select TWO)

- A. The GPU is not compatible with the operating system. Solution: Reinstall the operating system.
- B. The PCIe slot is faulty. Solution: Try installing the GPU in a different PCIe slot.
- C. The GPU is defective. Solution: Return the GPU to the manufacturer.
- D. The incorrect GPU drivers are installed or no drivers are installed at all. Solution: Download and install the latest drivers from the NVIDIA website.
- E. The motherboard BIOS/UEFI does not support the GPU. Solution: Update the motherboard BIOS/UEFI to the latest version.

#### Answer: D,E

#### Explanation:

The most common reasons for a GPU not being recognized are missing or incorrect drivers and an outdated BIOS/UEFI that doesn't support the card. A faulty PCIe slot is possible, but less likely as the initial troubleshooting step. Reinstalling the OS is rarely needed for driver issues. A defective GPU is possible but should be considered after other options are exhausted.

#### **NEW OUESTION # 132**

You are deploying BlueField OS in a highly secure environment. Which of the following security measures are MOST important to consider during and after the OS deployment?

- A. Implementing a strict password policy for all user accounts.
- B. Regularly updating the BlueField OS and all installed software to patch security vulnerabilities.
- C. Enabling secure boot to ensure only trusted code is executed during the boot process.
- D. Disabling unnecessary services and ports to reduce the attack surface.
- E. Configuring a strong firewall to restrict network access to only necessary services.

#### Answer: A,B,C,D,E

#### Explanation:

All listed options contribute significantly to the security posture. Secure boot ensures boot integrity, a firewall restricts unauthorized network access, regular updates patch vulnerabilities, disabling unnecessary services minimizes the attack surface, and a strong password policy protects user accounts. All these are critical in a secure environment.

## **NEW QUESTION #133**

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