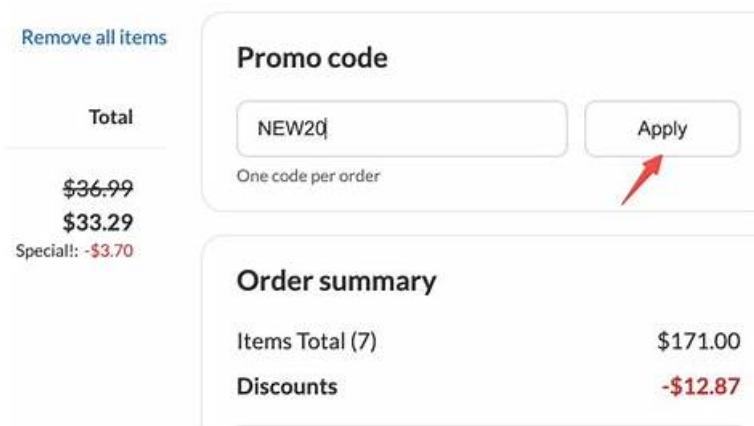


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NVIDIA AI Infrastructure Sample Questions (Q246-Q251):

NEW QUESTION # 246

You are deploying a security application that leverages the BlueField DPIJ to perform deep packet inspection (DPI) on network traffic.

Your application requires access to the raw packet data, including the Ethernet headers. Which of the following programming models or APIs is most suitable for accessing raw packet data on the BlueField DPU with minimal overhead?

- A. using DPDK (Data Plane Development Kit) with the BlueField DPU's PMD (Poll Mode Driver).
- B. Using the 'tcpdump' command and parsing its output.
- C. Using libpcap to capture packets from the network interface.
- D. Using Netfilter hooks in the Linux kernel to intercept packets.
- E. Using standard Linux socket APIs (e.g., 'socket()' , 'recvfrom()') in user space.

Answer: A

Explanation:

DPDK provides a framework for high-performance packet processing in user space, bypassing the kernel's networking stack. The BlueField DPU's PMD (Poll Mode Driver) allows DPDK applications to directly access the network interface with minimal

overhead. This is ideal for DPI applications that need to process a large volume of packets at high speed. Standard socket APIs and Netfilter hooks involve kernel intervention, which can introduce significant overhead. Libpcap is a packet capture library, not designed for high-performance packet processing. 'tcpdump' is a command-line tool, not a programming API.

NEW QUESTION # 247

You are tasked with installing NVIDIA GPUs into a server that supports both single and double-width cards. You want to maximize GPU density. What is the MOST important factor to consider when choosing between single and double-width cards?

- A. The clock speed of the GPUs.
- B. The brand of the GPUs.
- C. The price of the GPUs.
- D. The available PCIe slots and their spacing within the server chassis, and the server's cooling capacity.
- E. The amount of VRAM on the GPUs.

Answer: D

Explanation:

While clock speed, VRAM, price, and brand are relevant, the physical constraints of the server (PCIe slot availability/spacing and cooling capacity) are paramount when deciding between single and double-width cards. Double-width cards offer more performance but require more space and cooling. If spacing isn't proper, and the cooling isn't adequate, performance is not relevant. If the cooling is inadequate, and cards are too close together, performance will suffer due to throttling.

NEW QUESTION # 248

You are tasked with selecting transceivers for a new NVIDIA Quantum-2 InfiniBand switch deployment. The primary requirement is to minimize power consumption while maintaining 400Gbps bandwidth over short distances (up to 50 meters). Which transceiver type would offer the BEST power efficiency in this scenario?

- A. QSFP-DD DR4
- B. QSFP-DD SR4
- C. QSFP-DD SR8
- D. QSFP-DD LR8
- E. QSFP-DD AOC

Answer: B

Explanation:

SR4 transceivers are known for their relatively low power consumption compared to other 400GbE transceiver types. This is because they use a simpler modulation scheme and shorter reach, requiring less power for signal amplification and processing. LR8 and DR4 are designed for longer distances and consume more power. AOCs, while convenient, are not typically the most power-efficient option. SR8 may consume slightly higher power than SR4 but provides better performance in certain scenarios.

NEW QUESTION # 249

You are tasked with setting up a secure environment for running GPU-accelerated machine learning workloads in Docker containers.

The security requirements dictate that containers should have minimal privileges and access only the necessary resources. Which of the following security measures are most relevant when using NVIDIA GPUs with Docker?

- A. Use AppArmor or SELinux profiles to restrict the capabilities of the Docker containers, limiting their access to system resources.
- B. Regularly scan Docker images for vulnerabilities using tools like Clair or Trivy and rebuild images with patched dependencies.
- C. Grant the Docker containers direct access to the host's hardware devices, including the GPU, to maximize performance.
- D. Run the Docker daemon in rootless mode to reduce the risk of privilege escalation.
- E. Implement network segmentation and firewalls to isolate the Docker containers from other services and the internet.

Answer: A,B,D,E

Explanation:

Security is paramount, and minimizing privileges is key. Running Docker in rootless mode (A) reduces the attack surface. AppArmor/SELinux (B) confines container capabilities. Regular vulnerability scanning (C) helps prevent attacks based on known weaknesses. Network segmentation (E) limits the impact of a compromised container. Granting direct hardware access (D) increases the risk of privilege escalation and should be avoided in a secure environment. The NVIDIA Container Toolkit facilitates GPU access without requiring direct device passthrough, adhering to principle of least privilege.

NEW QUESTION # 250

An AI cluster needs to transmit data at 200Gbps over a distance of 2km using single-mode fiber. Considering cost and performance, which transceiver type is the most appropriate?

- A. 200GBASE-LR4
- B. 200GBASE-CR4
- C. 200GBASE-DR4
- D. 200GBASE-SR4
- E. 200GBASE-ER4

Answer: A

Explanation:

200GBASE-LR4 is the most appropriate. 'LR' designates Long Reach, typically up to 10km on single-mode fiber. SR4 is short reach (typically copper or very short fiber). ER4 is Extended Reach (up to 40km). CR4 is copper, for very short distances. DR4 is typically used for up to 500m to 2km distances depending on the specific implementation, so while possible LR4 is a better fit for guaranteed 2km.

NEW QUESTION # 251

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