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NVIDIA AI Infrastructure Sample Questions (Q222-Q227):

NEW QUESTION # 222

You are tasked with installing a BlueField-2 DPU on a server. After physical installation, the DPU is not recognized by the host OS (Linux). You've verified the power and connection. What is the most likely first step you should take to troubleshoot the issue?

- A. Replace the BlueField-2 DPU, assuming it's faulty hardware.
- B. Install the latest NVIDIA drivers on the host OS, specifically the BlueField-related drivers.
- C. Check the UEFI settings to ensure that the PCIe slot where the DPU is installed is enabled and configured correctly.
- D. Immediately reflash the BlueField-2 DPU firmware with the latest version.

- E. Check the system BIOS settings to ensure that IOMMU (Input/Output Memory Management Unit) is enabled and properly configured.

Answer: E

Explanation:

IOMMU is crucial for the host OS to properly recognize and manage the DPUs resources. If IOMMU is disabled or misconfigured, the DPU might not be detected. The other options are less likely to be the immediate cause of the issue. While drivers are important, IOMMU is a fundamental requirement. IJEFI config is also important but less likely.

NEW QUESTION # 223

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

Answer: D

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 # 224

You are managing a server farm of GPU servers used for AI model training. You observe frequent GPU failures across different servers.

Analysis reveals that the failures often occur during periods of peak ambient temperature in the data center. You can't immediately improve the data center cooling. What are TWO proactive measures you can implement to mitigate these failures without significantly impacting training performance?

- A. Schedule training jobs to run during off-peak hours when ambient temperatures are lower.
- B. Replace all existing GPUs with water-cooled models.
- C. Increase the fan speeds of the GPU coolers to improve heat dissipation.
- D. Reduce the GPU power limit using 'nvidia-smi' to decrease heat generation.
- E. Implement a more aggressive GPU frequency scaling profile to throttle performance during peak temperatures.

Answer: A,D

Explanation:

Reducing the GPU power limit (A) will directly reduce heat generation, which is the primary driver of failures in this scenario. While it will slightly reduce performance, the impact is less than aggressive throttling. Scheduling training jobs for off-peak hours (D) completely avoids the issue of high ambient temperatures. Increasing fan speeds (B) can help, but it may not be sufficient and can increase noise. Frequency scaling (C) is a more aggressive approach that can significantly impact performance. Replacing all GPUs with water-cooled models (E) is a more expensive and complex solution that may not be immediately feasible.

NEW QUESTION # 225

You need to verify the integrity of the BlueField OS image before flashing it to the SmartNIC. Which method would provide the strongest guarantee that the image has not been tampered with?

- A. Comparing the image size with the expected size from the download source.
- B. Utilizing gpg to verify the image.
- C. Downloading the image from a trusted source.

- D. Verifying the SHA256 checksum of the image against the published SHA256 checksum
- E. Checking the MD5 checksum of the image against the published MD5 checksum

Answer: B,D

Explanation:

SHA256 provides a stronger collision resistance than MD5, making it a more reliable method for verifying image integrity. Comparing the image size is not a reliable method, as a small change can be made without significantly altering the size. Downloading from a trusted source is important, but doesn't guarantee the image hasn't been tampered with after it was published. GPG provides cryptographic assurance that the file originated from and was signed by an identified party.

NEW QUESTION # 226

Consider a distributed training job running across multiple nodes, each with local NVMe storage. You want to minimize network traffic and maximize I/O performance. Which data loading strategy would be MOST effective?

- A. Distributing the dataset across the local NVMe drives of each node and using a distributed data loader
- B. Using rsync to copy data between nodes before each epoch
- C. Loading the entire dataset into the memory of a single node and then distributing it to the other nodes
- D. Centralized data loading from a single NFS server
- E. Using object storage (e.g., S3) as the primary data source and loading data on demand

Answer: A

Explanation:

Distributing the dataset across the local NVMe drives and using a distributed data loader allows each node to read data directly from its local storage, minimizing network traffic and maximizing I/O performance. Centralized data loading from NFS will create a bottleneck. Loading into a single node's memory is impractical for large datasets. Object storage can introduce latency. Rsync is inefficient for repeated data loading.

NEW QUESTION # 227

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