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NVIDIA AI Infrastructure Sample Questions (Q221-Q226):

NEW QUESTION # 221

An NVIDIA-based AI server is experiencing intermittent network connectivity issues. You suspect a problem with the SFP28 transceiver connecting the server to the network. You want to use command-line tools to retrieve the DOM (Digital Optical Monitoring) information from the transceiver to diagnose the problem. Assuming you have appropriate network administration privileges, which command sequence is the MOST likely to provide the necessary DOM data (assuming 'eth0' is the interface)?

- A. ☐
- B. ☐
- C. ☐
- D. ☐
- E. ☒

Answer: E

Explanation:

The 'ethtool -m eth0' command (with appropriate sudo privileges) is specifically designed to retrieve module EEPROM information, including DOM data, from a network interface. The other commands are not designed for this purpose. 'ethtool eth0 grep transceiver' may provide some basic transceiver information but won't provide details like temperature or power levels. 'link show' focuses on link state, not module details. 'ifconfig' is deprecated and doesn't show detailed transceiver information. 'lshw' provides hardware inventory but not real-time DOM.

NEW QUESTION # 222

You are tasked with designing a high-performance network for a large-scale recommendation system. The system requires low latency and high throughput for both training and inference. Which interconnect technology is MOST suitable for connecting the nodes within the cluster?

- A. 100 Gigabit Ethernet
- B. 10 Gigabit Ethernet
- C. Gigabit Ethernet
- D. Fibre Channel
- E. InfiniBand

Answer: E

Explanation:

InfiniBand is designed for high-performance computing and offers significantly lower latency and higher bandwidth compared to Ethernet or Fibre Channel, making it the most suitable choice for demanding workloads like recommendation systems. While 100 Gigabit Ethernet provides high bandwidth, InfiniBand generally offers lower latency.

NEW QUESTION # 223

You've installed a new NVIDIA GPU in your AI server. After the installation and driver setup, you notice that while 'nvidia-smi' recognizes the GPU, the available memory reported is significantly lower than the GPU's specifications. What are the potential root causes and how would you systematically troubleshoot this?

- A. The integrated graphics is using a significant amount of system memory, reducing what's available to the GPU. Disable the integrated graphics in the BIOS.
- B. The GPU is faulty and needs to be replaced.
- C. The reported memory is the currently allocated memory, not the total available. Run a CUDA program to allocate more memory and observe the change.
- D. The system BIOS is incorrectly configured, limiting GPU memory allocation.
- E. The driver is not correctly installed. Reinstall the latest NVIDIA driver.

Answer: A

Explanation:

Integrated graphics stealing system memory is a common cause, and disabling it frees up resources for the dedicated GPU. While a faulty GPU, BIOS settings, or driver issues are possibilities, integrated graphics is a more likely and easily verifiable cause. The reported memory is the total usable, not just allocated.

NEW QUESTION # 224

You are managing an AI infrastructure based on NVIDIA Spectrum-X switches. A new application requires strict Quality of Service (QoS) guarantees for its traffic. Specifically, you need to ensure that this application's traffic receives preferential treatment and minimal latency.

What combination of Spectrum-X features and configurations would be MOST effective in achieving this?

- A. Increase the MTU size on all interfaces to reduce packet fragmentation and overall latency.
- B. Disable Adaptive Routing (AR) to ensure that traffic always takes the shortest path.
- C. Use VLAN tagging to isolate the application's traffic into a separate virtual network.
- D. Configure DiffServ Code Point (DSCP) marking on the application's traffic, map these DSCP values to specific traffic classes within the Spectrum-X switch, and configure Weighted Fair Queueing (WFQ) or Strict Priority Queueing on the egress ports.
- E. Enable broadcast storm protection.

Answer: D

Explanation:

DSCP marking, traffic class mapping, and WFQ/Strict Priority Queueing are fundamental QoS mechanisms. DSCP marking allows you to classify traffic based on application requirements. Traffic classes within the switch provide different levels of service. WFQ and Strict Priority Queueing ensure that high-priority traffic receives preferential treatment on egress ports. The other options are less relevant to QoS guarantees for a specific application.

NEW QUESTION # 225

You are troubleshooting an issue where a Docker container utilizing NVIDIA GPUs intermittently fails with a 'CUDA ERROR OUT OF MEMORY' error. The host system has sufficient memory and the individual GPU has enough memory as well. You suspect that the problem might be related to how memory is being allocated within the container environment. What steps can you take to investigate and potentially mitigate this issue?

- A. Monitor GPU memory usage both inside and outside the container using 'nvidia-smi' to identify memory leaks or excessive allocation.
- B. Adjust the environment variable inside the container to ensure consistent GPU ordering.
- C. Lower the compute capability using '-compute' parameter on docker run.
- D. Increase the shared memory size for the container using the '-shm-size' flag when running the container.
- E. Set the environment variable inside the container to limit the number of GPUs visible to the application.

Answer: A,D

Explanation:

A 'CUDA ERROR OUT OF MEMORY' error can occur due to insufficient shared memory within the container (A). Increasing the shared memory size allows the container to allocate more memory for inter-process communication and GPU data transfers. Monitoring GPU memory usage both inside and outside the container (D) is crucial to identify the source of the memory exhaustion. 'CUDA_VISIBLE_DEVICES' and (B & C) are primarily used for GPU selection and ordering, not memory management, although limiting GPU visibility could indirectly reduce overall memory consumption if the application is poorly designed and tries to allocate memory on all visible GPUs regardless of need. Lowering compute capability won't directly affect memory usage, although the application will need less memory to process, it might cause issues.

NEW QUESTION # 226

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