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NVIDIA AI Infrastructure Sample Questions (Q149-Q154):

NEW QUESTION # 149

An InfiniBand fabric is experiencing intermittent packet loss between two high-performance compute nodes. You suspect a faulty cable or connector. Besides physically inspecting the cables, what software-based tools or techniques can you employ to diagnose

potential link errors contributing to this packet loss?

- A. Disable port mirroring.
- B. Use 'ibdiagnet' to perform a comprehensive fabric analysis, including link integrity checks and error detection.
- C. Run 'ipperf' or 'ibperf' between the two compute nodes and analyze the reported packet loss rate. Correlate this with the error counters on the switches.
- D. Monitor the port counters on the InfiniBand switches connected to the compute nodes. Look for excessive CRC errors, symbol errors, or other link-related error counts.
- E. All of the above

Answer: E

Explanation:

All of the mentioned options are valid techniques for diagnosing link errors. 'ibdiagnet' performs a thorough fabric analysis. Monitoring switch port counters reveals link-level errors. 'iperf/ibperf' identifies packet loss, which can be correlated with switch error counters. A comprehensive approach combining these methods is most effective.

NEW QUESTION # 150

Which of the following are key benefits of using NVIDIA Spectrum-X switches in an A1 infrastructure compared to traditional Ethernet switches? (Select THREE)

- A. Support for RoCE (RDMA over Converged Ethernet) and InfiniBand protocols, enabling high-bandwidth, low-latency communication.
- B. Native support for IPv6.
- C. Advanced telemetry and monitoring capabilities for network performance optimization.
- D. Hardware-based acceleration for collective communication operations used in distributed A1 training.
- E. Lower cost per port.

Answer: A,C,D

Explanation:

Spectrum-X switches are designed for high-performance computing and A1 workloads. They support RoCE and InfiniBand for low-latency communication, offer advanced telemetry for network optimization, and include hardware-based acceleration for collective communication operations, improving the efficiency of distributed A1 training. While Spectrum-X supports IPv6, this is also a common feature in modern Ethernet switches. Spectrum-X switches typically have a higher cost per port compared to basic Ethernet switches due to their advanced features and performance.

NEW QUESTION # 151

You encounter an error during the BlueField OS flashing process using 'bfboot: 'ERROR: Could not detect a BlueField device''. Which of the following steps is MOST likely to resolve the issue?

- A. Verify that the correct PCIe slot is being used. Some systems may have specific slots designated for SmartNICs.
- B. Check the system's BIOS/UEFI to confirm that SR-IOV is enabled.
- C. Install the Mellanox OFED drivers on the host system. These drivers are required for 'bfboot' to function correctly.
- D. Ensure the BlueField device is powered on and properly connected to the host system via PCIe.
- E. Update the 'bfboot' utility to the latest version. Older versions may have compatibility issues.

Answer: D

Explanation:

The most basic and common cause of this error is a physical connection issue. Ensuring the device is powered and connected is the first step. While other options might be relevant in specific scenarios, connectivity is the most probable cause.

NEW QUESTION # 152

You observe high latency and low bandwidth between two GPUs connected via an NVLink switch. You suspect a problem with the NVLink link itself. Which of the following methods would be the most effective in diagnosing the physical NVLink link health?

- A. Using 'iperf3' to measure network throughput between the servers.

- B. Using 'ping' to check network connectivity between the servers.
- C. Running a CUDA-aware memory bandwidth test specifically designed for NVLink.
- D. Examining system logs for NVLink-related error messages.
- E. Physically inspecting the NVLink cables for damage.

Answer: C,D,E

Explanation:

A CUDA-aware memory bandwidth test can specifically measure the NVLink link's performance. System logs can reveal hardware-level errors. Physical inspection can identify damaged cables. 'iperf3' and 'pings' are network-level tools and don't directly test the NVLink link. Checking for error messages in System Logs also helps identify potential issues related to the NVLink switch and the link connections.

NEW QUESTION # 153

Consider the following Dockerfile snippet:

□ This Dockerfile is used to build a deep learning application. After building and running a container from this image, you observe that the application is not detecting the GPU. You have verified that the NVIDIA Container Toolkit is installed and configured correctly on the host. What is the most likely reason for this issue?

- A. The application code in 'app.py' is not explicitly requesting GPU resources.
- B. The base image 'nvidia/cuda:11.6.2-base-ubuntu20.04' does not include the necessary NVIDIA Container Toolkit components.
- C. The 'requirements.txt' file is missing the 'nvidia-pyindex' package.
- D. The CUDA version on the host is different than the one specified in the Dockerfile.
- E. The 'docker run' command is missing the '-gpus all' flag.

Answer: E

Explanation:

The 'docker run' command must include the '=gpus all' (or equivalent) flag to explicitly request GPU resources for the container (C). The base image 'nvidia/cuda:11.6.2-base-ubuntu20.04' provides the CUDA runtime, but the NVIDIA Container Toolkit on the host handles the GPU device mapping. The application code (B) doesn't need to explicitly request GPUs; the CUDA runtime will handle that. 'nvidia-pyindex' (D) is related to package management, not GPU detection. The Dockerfile includes a specific CUDA version that mitigates version differences (E). The base image does not include the Container Toolkit, which is installed on the HOST.

NEW QUESTION # 154

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