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NVIDIA AI Infrastructure Sample Questions (Q161-Q166):

NEW QUESTION # 161

Which of the following statements are true regarding the use of Congestion Management (CM) and Congestion Avoidance (CA) techniques within an InfiniBand fabric using NVIDIA technology? (Select TWO)

- A. CM/CA are not relevant in InfiniBand fabrics because InfiniBand's lossless nature guarantees that no packets will ever be dropped due to congestion.
- B. CM aims to reduce the severity of congestion once it has already occurred, while CA aims to prevent congestion from happening in the first place.
- C. CM/CA mechanisms are primarily implemented at the IP layer and are independent of the InfiniBand transport layer.
- D. InfiniBand's Explicit Congestion Notification (ECN) is a CA mechanism that allows switches to signal congestion to endpoints before packet loss occurs.

• E. CM can include techniques like rate limiting to throttle traffic flows when congestion is detected.

Answer: B,D,E

Explanation:

CM and CA are crucial for maintaining performance in InfiniBand fabrics. CM addresses congestion that has already occurred, while CA tries to prevent it. ECN is a key CA mechanism in InfiniBand. InfiniBand is lossless but experiences performance degradation if congestion occurs; CM helps mitigate this. They are not implemented at the IP layer; they are integral parts of the InfiniBand transport. Rate limiting is a viable CM strategy.

NEW QUESTION # 162

You encounter a situation where an NVIDIA driver installation fails with the error message 'ERROR: Unable to load the kernel module 'nvidia.ko'. This may be because it was built for another kernel...'. Assuming the kernel headers are correctly installed, what is the most likely cause and solution?

- A. Secure Boot is enabled, and the NVIDIA kernel module is not signed. Solution: Sign the NVIDIA kernel module with a machine owner key (MOK).
- B. The NVIDIA driver version is incompatible with the current kernel version. Solution: Install a compatible driver version.
- C. The DKMS module build failed. Solution: Manually rebuild the DKMS module using 'dkms autoinstall'.
- D. The 'nouveau' driver is still loaded. Solution: Blacklist 'nouveau- and reboot.
- E. The system is running out of disk space in '/tmp'. Solution: Free up space or remount S/tmp' with more space.

Answer: A,B,C

Explanation:

The error message indicates a mismatch between the driver and kernel. This can happen due to incompatibility, unsigned modules due to Secure Boot, or a failed DKMS build. Installing a compatible version, MOK signing, and rebuilding DKMS are valid solutions. While nouveau can interfere, the error message points specifically to a module loading problem, making the other options more likely. Lack of disk space is a less common, but possible, issue.

NEW QUESTION # 163

You've installed a DGX A100 server During the initial hardware validation, you observe that one of the GPUs is consistently reporting lower performance compared to the others. Which troubleshooting steps should you take, in the CORRECT order, to diagnose the problem?

- A. 1. Run GPU diagnostics. 2. Reseat the GPIJ. 3. Check GPU temperature. 4. Update the GPU driver.
- B. 1. Update the GPU driver. 2. Run GPU diagnostics. 3. Check GPU temperature. 4. Reseat the GPIJ.
- C. 1. Check the power supply connections. 2. Check GPU temperature. 3. Reseat the GPIJ. 4. Run GPU diagnostics.
- D. 1. Check GPU temperature. 2. Reseat the GPU. 3. Run GPU diagnostics. 4. Update the GPU driver.
- E. 1. Reseat the GPU. 2. Check GPU temperature. 3. Update the GPU driver. 4. Run GPU diagnostics.

Answer: D

Explanation:

Checking temperature is crucial first to avoid damaging the GPU if it's overheating. Reseating addresses potential connectivity issues. Running diagnostics identifies hardware faults. Updating the driver should be done after hardware checks to ensure the card isn't faulty.

NEW OUESTION # 164

An AI server utilizes a QSFP28 transceiver with MPO connector. During troubleshooting, you suspect a faulty transceiver. Which steps are most important to perform when physically inspecting and testing the transceiver?

- A. Examine the transceiver's EEPROM data, measure the supply voltage with a multimeter, and perform a link speed autonegotiation test.
- B. Visually inspect the connector for damage, clean the connector end-face with an appropriate fiber optic cleaning tool, and perform an Optical Time Domain Reflectometer (OTDR) test.
- C. Verify the transceiver's DOM (Digital Optical Monitoring) information, clean the connector end-face with a dry cloth, and perform a ping test.

- D. Visually inspect the connector for damage, clean the connector end-face with an appropriate fiber optic cleaning tool, and verify the transceiver's DOM (Digital Optical Monitoring) information, particularly TX power, RX power, and temperature.
- E. Check the transceiver's firmware version, measure the transceiver's temperature using an infrared thermometer, and perform a bit error rate test (BERT).

Answer: D

Explanation:

The MOST important steps involve visual inspection for damage, cleaning the connector to ensure a good optical connection, and verifying DOM information to assess the transceivers health and signal levels. OTDR is more suited for cable diagnosis. While firmware and voltage are relevant, the DOM provides immediate health indicators.

NEW OUESTION # 165

Which of the following is the MOST important reason for using a dedicated storage network (e.g., InfiniBand or RoCE) for AI/ML workloads compared to using the existing Ethernet network?

- A. Simplified network management and configuration.
- B. Improved security due to network isolation.
- C. Automatic Quality of Service (QOS) prioritization for AI/ML traffic.
- D. Lower latency and higher bandwidth for data transfer.
- E. Reduced cost compared to upgrading the existing Ethernet infrastructure.

Answer: D

Explanation:

The primary benefit of a dedicated storage network like InfiniBand or RoCE is the significant improvement in latency and bandwidth (option B) compared to Ethernet. These technologies are designed for high-performance computing and can handle the intense 1/0 demands of AI/ML workloads. While security (A) can be improved through isolation, and QOS (E) is possible, the performance advantage is the most crucial factor. Cost (D) is generally higher, and management (C) can be more complex.

NEW QUESTION # 166

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