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NVIDIA-Certified Professional AI Networking Sample Questions (Q36-Q41):

NEW QUESTION # 36

A high-performance InfiniBand fabric requires a routing engine that maximizes throughput and network utilization while reducing congestion. Which option below is the best routing engine for InfiniBand?

- A. Adaptive Routing
- B. Round Robin Routing
- C. Random Routing
- D. Shortest Path Routing

Answer: A

Explanation:

Adaptive Routing in InfiniBand networks dynamically selects the optimal path for data packets based on current network conditions, such as congestion levels and link utilization. This approach ensures that traffic is evenly distributed across the network, preventing bottlenecks and maximizing overall throughput.

By continuously monitoring the network and adjusting routes in real-time, Adaptive Routing enhances performance and reliability, making it the preferred choice for high-performance computing environments where consistent low latency and high bandwidth are critical.

Reference:NVIDIA InfiniBand Adaptive Routing Technology Whitepaper

NEW QUESTION # 37

Why is the InfiniBand LRH called a local header?

- A. It allows traffic on a local link only.
- B. It is used for routing traffic between nodes in the local subnet.
- C. It provides the parameters for each local HCA.
- D. It provides the LIDs from the local subnet manager.

Answer: B

Explanation:

The Local Route Header (LRH) in InfiniBand is termed "local" because it is used exclusively for routing packets within a single subnet. The LRH contains the destination and source Local Identifiers (LIDs), which are unique within a subnet, facilitating efficient routing without the need for global addressing. This design optimizes performance and simplifies routing within localized network segments. InfiniBand is a high-performance, low-latency interconnect technology widely used in AI and HPC data centers, supported by NVIDIA's Quantum InfiniBand switches and adapters. The Local Routing Header (LRH) is a critical component of the InfiniBand packet structure, used to facilitate routing within an InfiniBand fabric. The question asks why the LRH is called a "local header," which relates to its role in the InfiniBand network architecture.

According to NVIDIA's official InfiniBand documentation, the LRH is termed "local" because it contains the addressing information necessary for routing packets between nodes within the same InfiniBand subnet." The LRH includes fields such as the Source Local Identifier (SLID) and Destination Local Identifier (DLID), which are assigned by the subnet manager to identify the source and destination endpoints within the local subnet. These identifiers enable switches to forward packets efficiently within the subnet without requiring global routing information, distinguishing the LRH from the Global Routing Header (GRH), which is used for inter-subnet routing.

Exact Extract from NVIDIA Documentation:

"The Local Routing Header (LRH) is used for routing InfiniBand packets within a single subnet. It contains the Source LID (SLID) and Destination LID (DLID), which are assigned by the subnet manager to identify the source and destination nodes in the local subnet. The LRH is called a 'local header' because it facilitates intra-subnet routing, enabling switches to forward packets based on LID-based forwarding tables."

-NVIDIA InfiniBand Architecture Guide

This extract confirms that option A is the correct answer, as the LRH's primary function is to route traffic between nodes within the local subnet, leveraging LID-based addressing. The term "local" reflects its scope, which is limited to a single InfiniBand subnet managed by a subnet manager.

Reference:LRH and GRH InfiniBand Headers - NVIDIA Enterprise Support Portal

NEW QUESTION # 38

When upgrading Cumulus Linux to a new version, which configuration files should be migrated from the old installation? Pick the 2 correct responses below.

- A. All files in /etc/cumulus/acl
- B. All files in /etc/mix
- C. All files in /etc
- D. All files in /etc/network

Answer: A,D

Explanation:

Before upgrading Cumulus Linux, it's essential to back up configuration files to a different server. The /etc directory is the primary location for all configuration data in Cumulus Linux. Specifically, the following files and directories should be backed up:

- * /etc/frr/ - Routing application (responsible for BGP and OSPF)
- * /etc/hostname - Configuration file for the hostname of the switch
- * /etc/network/ - Network configuration files, most notably /etc/network/interfaces and /etc/network/interfaces.d/
- * /etc/cumulus/acl - Access control list configurations

Cumulus Linux is a network operating system used on NVIDIA Spectrum switches, including those in the Spectrum-X platform, to provide a Linux-based environment for Ethernet networking in AI and HPC data centers. When upgrading Cumulus Linux to a new version, it's critical to migrate specific configuration files to preserve network settings and ensure continuity. The question asks for the two configuration file locations that should be migrated from the old installation during an upgrade.

According to NVIDIA's official Cumulus Linux documentation, the key directories containing configuration files that should be migrated during an upgrade are /etc/cumulus/acl (for access control list configurations) and /etc/network (for network interface configurations). These directories store critical network settings that define the switch's behavior, such as ACL rules and interface settings, which must be preserved to maintain network functionality after the upgrade.

Exact Extract from NVIDIA Documentation:

"When upgrading Cumulus Linux, you must back up and migrate specific configuration files to ensure continuity of network settings. The following directories should be included in the backup:

- * /etc/cumulus/acl: Contains access control list (ACL) configuration files that define packet filtering and security policies.
- * /etc/network: Contains network interface configuration files, such as interfaces and ifupdown2 settings, which define the network interfaces and their properties. Back up these directories before upgrading and restore them after the new version is installed to maintain consistent network behavior." -NVIDIA Cumulus Linux Upgrade Guide This extract confirms that options A and B are the correct answers, as /etc/cumulus/acl and /etc/network contain essential configuration files that must be migrated during a Cumulus Linux upgrade. These files ensure that ACL policies and network interface settings are preserved, which are critical for Spectrum-X configurations in AI networking environments.

Reference:Upgrading Cumulus Linux - NVIDIA Docs

NEW QUESTION # 39

You have recently implemented NVIDIA Spectrum-X in your data center to optimize AI workloads. You need to verify the performance improvements and create a baseline for future comparisons.

Which tool would be most appropriate for creating performance baseline results in this Spectrum-X environment?

- A. MLNX-OS
- B. Ansible
- C. NetQ
- D. CloudAI Benchmark

Answer: D

Explanation:

The CloudAI Benchmark is designed to evaluate and establish performance baselines in AI-optimized networking environments like NVIDIA Spectrum-X. It assesses various performance metrics, including throughput and latency, ensuring that the network meets the demands of AI workloads. This benchmarking is essential for validating the benefits of Spectrum-X and for ongoing performance monitoring.

Reference:NVIDIA Spectrum-X Validated Solution Stack

NEW QUESTION # 40

Which of the following routing protocols is not capable of avoiding credit loops?

- A. FAT TREE
- **B. MINHOP**
- C. UPDOWN
- D. All routing protocols are capable of avoiding credit loops

Answer: B

Explanation:

The MINHOP routing protocol, while efficient in finding minimal paths, does not inherently prevent credit loops. This can lead to deadlocks in the network. In contrast, routing protocols like UPDOWN and FAT TREE are designed to avoid such loops, ensuring more reliable network operation.

Reference: Optimized Routing for Large-Scale InfiniBand Networks

NEW QUESTION # 41

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