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NVIDIA-Certified Professional AI Networking Sample Questions (Q46-Q51):

NEW QUESTION # 46

Your organization is planning to utilize Ethernet for an upcoming AI project. Spectrum-X is the selected platform for this deployment, and Adaptive Routing is a key feature.

What are the requirements included in the Spectrum-X RA for adaptive routing?

- A. SN5600, BlueField-3 SuperNIC, DDR, RoCE traffic
- B. SN5600, BlueField-3 SuperNIC, DDR, TCP traffic
- C. SN4700, BlueField-3 SuperNIC, DDR, RoCE traffic

Answer: A

Explanation:

The NVIDIA Spectrum-X Reference Architecture (RA) 1.0.1 is designed for Ethernet AI cloud deployments and includes the SN5600 Spectrum-4 switches and BlueField-3 SuperNICs. This architecture supports adaptive routing and DOCA programmable congestion control (PCC) for lossless RoCE traffic, optimizing performance for AI workloads.

The SN5600 switch offers 64 ports of 800GbE in a dense 2U form factor, providing high throughput and low latency essential for AI applications.

NEW QUESTION # 47

You need to configure a bond in Cumulus Linux. Which command should you use?

- A. nv set bondbond1 interface member swp1-4
- B. nv set interface bond1 bond mlag enable
- C. nv set interface bond1 bond member swp1-4
- D. nv set interface bond1 bond mode lacp

Answer: D

Explanation:

In Cumulus Linux, configuring a bond interface with Link Aggregation Control Protocol (LACP) involves setting the bond mode to 'lacp'. The correct command to achieve this is:

`nv set interface bond1 bond mode lacp`

This command sets the bonding mode of 'bond1' to LACP, enabling dynamic link aggregation for increased bandwidth and redundancy.

Reference Extracts from NVIDIA Documentation:

* "To reset the link aggregation mode for bond1 to the default value of 802.3ad, run the `nv set interface bond1 bond mode lacp` command."

NEW QUESTION # 48

In which mode of the BlueField DPU does the ARM system on the DPU control the NIC data path, but allow access to the DPU OS from the host?

- A. NIC mode
- B. Separated Host mode
- C. DPU mode
- D. Restricted mode

Answer: C

Explanation:

In DPU Mode, the ARM cores on BlueField control the NIC data path, while still allowing the host system to access the DPU OS (via OOB or virtio).

From NVIDIA BlueField Documentation:

"In DPU Mode, the data path is offloaded to the BlueField Arm cores, enabling advanced security and networking functions, while still allowing host access to the BlueField OS." This is different from:

- * NIC Mode: Data path controlled by host, ARM cores inactive.
- * Separated Host Mode: Complete isolation; host cannot access DPU OS.
- * Restricted Mode: Limited host access to DPU OS, but without full offload capabilities.

Reference: NVIDIA BlueField DPU Architecture Guide - Operating Modes Section

NEW QUESTION # 49

What is the purpose of WJH (What Just Happened)?

- A. Identify potential cyberattacks or unusual traffic patterns across the cluster.
- **B. Provide contextual information regarding dropped packets in order to aid debugging.**
- C. Collate operating system logs and diagnose system crashes.
- D. Send notifications of failed login attempts to a pre-defined Slack channel.

Answer: B

Explanation:

NVIDIA's What Just Happened (WJH) is a feature that provides real-time visibility into network problems by analyzing all packets passing through the switch and alerting on performance issues caused by packet drops, congestion, high latency, or misconfigurations.

WJH retains the last packets that were dropped from the switch with complete packet headers and the actual drop reason. This enhances the ability to debug network problems, identify affected flows, and decrease time- to-repair.

NEW QUESTION # 50

As the network administrator for a large-scale AI research cluster, you are responsible for ensuring seamless data flow across an InfiniBand east-west fabric that interconnects hundreds of compute nodes.

Which tool would you use to trace and discover the network paths between nodes on this InfiniBand east-west fabric?

- A. NetQ
- **B. ibnetdiscover**
- C. ibpathverify
- D. tracert

Answer: B

Explanation:

The ibnetdiscover utility is used to perform InfiniBand subnet discovery and outputs a human-readable topology file. GUIDs, node types, and port numbers are displayed, as well as port LIDs and node descriptions.

All nodes and links are displayed, providing a full topology. This utility can also be used to list the current connected nodes. The output is printed to the standard output unless a topology file is specified.

InfiniBand is a high-performance, low-latency interconnect technology used in AI and HPC data centers, particularly for east-west traffic between compute nodes in large-scale fabrics. Ensuring seamless data flow requires tools to troubleshoot and monitor the network, including the ability to trace and discover network paths between nodes. The question asks for the specific tool used to trace and discover paths in an InfiniBand fabric, which is a key task in InfiniBand troubleshooting.

According to NVIDIA's official InfiniBand documentation, the ibnetdiscover tool is designed to discover and map the topology of an InfiniBand fabric, including the paths between nodes. It scans the fabric, queries the subnet manager, and generates a topology map that details the connections between switches, Host Channel Adapters (HCAs), and other devices. This tool is essential for verifying connectivity, identifying routing paths, and troubleshooting issues like misconfigured routes or link failures in large-scale InfiniBand fabrics.

Exact Extract from NVIDIA Documentation:

"The ibnetdiscover tool is used to discover the InfiniBand fabric topology and generate a map of the network.

It queries the subnet manager to retrieve information about all nodes, switches, and links in the fabric, providing a detailed view of the paths between nodes. This tool is critical for troubleshooting connectivity issues and ensuring proper routing in InfiniBand networks."

-NVIDIA InfiniBand Networking Guide

This extract confirms that ibnetdiscover is the correct tool for discovering network paths in an InfiniBand east- west fabric. It provides a comprehensive view of the fabric's topology, enabling administrators to trace paths between compute nodes and ensure seamless data flow.

NEW QUESTION # 51

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