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NVIDIA-Certified Professional AI Networking Sample Questions (Q15-Q20):

NEW QUESTION # 15

You are troubleshooting a Spectrum-X network and need to validate the fabric configuration. Which feature of Spectrum-X allows for automated fabric validation?

- A. RoCE Adaptive Routing
- B. RoCE Performance Isolation
- C. NVIDIA DOCA
- D. **NVIDIA NetQ**

Answer: D

Explanation:

NVIDIA NetQ is a network operations tool that provides real-time visibility and automated validation of the network fabric. It helps in identifying misconfigurations, monitoring network health, and ensuring that the fabric meets the required specifications for AI workloads.

Reference: NVIDIA Spectrum-X Documentation - Automated Fabric Validation

NEW QUESTION # 16

What is the purpose of configuring NVUE to ignore Linux files?

- A. **Enable the persistent manipulation of specific settings using both NVUE and flat-file approaches.**
- B. Improve Cumulus security by reducing the attack surface.
- C. Reduce NVUE memory utilization to optimize performance.
- D. Enable pushing of configuration through Ansible template files.

Answer: A

Explanation:

Configuring NVUE to ignore certain underlying Linux files allows administrators to manage specific settings manually or through automation tools like Ansible without NVUE overwriting these configurations. This approach enables the persistent manipulation of settings using both NVUE and flat-file methods, providing flexibility in network management.

NEW QUESTION # 17

Which tool would you use to gather telemetry data in a SpectrumX network?

- A. NVIEW
- B. UFM
- C. **NetQ**
- D. BCM

Answer: C

Explanation:

The NVIDIA Spectrum-X networking platform is an Ethernet-based solution optimized for AI workloads, combining Spectrum-4

switches, BlueField-3 SuperNICs, and advanced software to deliver high performance and low latency. Gathering telemetry data is critical for optimizing Spectrum-X networks, as it provides visibility into network performance, congestion, and potential issues. The question asks for the tool used to collect telemetry data in a Spectrum-X network.

According to NVIDIA's official documentation, NVIDIA NetQ is the primary tool for gathering telemetry data in Ethernet-based networks, including those running on Spectrum-X platforms with Cumulus Linux or SONiC. NetQ is a network operations toolset that provides real-time monitoring, telemetry collection, and analytics for network health, enabling administrators to optimize performance, troubleshoot issues, and validate configurations. It collects detailed telemetry data such as link status, packet drops, latency, and congestion metrics, which are essential for Spectrum-X optimization.

Exact Extract from NVIDIA Documentation:

"NVIDIA NetQ is a highly scalable network operations tool that provides telemetry-based monitoring and analytics for Ethernet networks, including NVIDIA Spectrum-X platforms. NetQ collects real-time telemetry data from switches and hosts, offering insights into network performance, congestion, and connectivity. It supports Cumulus Linux and SONiC environments, making it ideal for optimizing Spectrum-X networks by providing visibility into key metrics like latency, throughput, and packet loss."

-NVIDIA NetQ User Guide

This extract confirms that option C, NetQ, is the correct tool for gathering telemetry data in a Spectrum-X network. NetQ's integration with Spectrum-X switches and its ability to collect and analyze telemetry data make it the go-to solution for network optimization tasks.

NEW QUESTION # 18

Which of the following NCCL environment variables enable SHARP aggregation with NCCL when using the NCCL-SHARP plugin?

Pick the 2 correct responses below

- A. NCCL_SHARP_AUTOINIT
- B. NCCL_COLLECTIVE_ENABLE=1
- C. NCCL_ALGO=CollNet
- D. NCCLSPECTRUM_ENABLE=1

Answer: A,B

Explanation:

To enable SHARP (Scalable Hierarchical Aggregation and Reduction Protocol) aggregation using the NCCL- SHARP plugin, the following two environment variables are required:

* NCCL_COLLECTIVE_ENABLE=1

Enables NCCL's support for CollNet (Collective Network) operations, including SHARP.

* NCCL_SHARP_AUTOINIT=1

Automatically initializes the SHARP plugin when available, activating SHARP-based collectives.

From the NVIDIA NCCL User Guide - SHARP Plugin Section:

"NCCL_COLLECTIVE_ENABLE must be set to enable collective network acceleration features."

"NCCL_SHARP_AUTOINIT enables automatic SHARP plugin integration at NCCL runtime." Incorrect Options:

* B. NCCL_ALGO=CollNet- This variable controls the algorithm used for collectives but does not enable SHARP.

* C. NCCLSPECTRUM_ENABLE- This is not a documented NCCL variable.

Reference: NCCL SHARP Plugin Guide & NCCL User Guide - Environment Variables Section

NEW QUESTION # 19

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. traceroute
- B. ibnetdiscover
- C. ibpathverify
- D. NetQ

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.

Reference: InfiniBand Fabric Utilities - NVIDIA Docs

NEW QUESTION # 20

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