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NVIDIA-Certified Professional AI Networking Sample Questions (Q56-Q61):

NEW QUESTION # 56

You are planning to deploy a large-scale Spectrum-X network for AI workloads. Before physical implementation, you want to validate the network design and configuration using a digital twin approach.

Which NVIDIA tool would be most appropriate for creating and simulating a digital twin of your Spectrum-X network?

- A. NVIDIA Omniverse
- B. NVIDIA Base Command Manager
- C. NVIDIA NetQ
- D. **NVIDIA Air**

Answer: D

Explanation:

NVIDIA Air is a cloud-based network simulation tool designed to create digital twins of data center infrastructure, including Spectrum-X networks. It allows users to model switches, SuperNICs, and storage components, enabling the simulation, validation, and automation of network configurations before physical deployment. This facilitates Day 0, 1, and 2 operations, ensuring that network designs are tested and optimized for AI workloads.

Reference Extracts from NVIDIA Documentation:

- * "NVIDIA Air enables cloud-scale efficiency by creating identical replicas of real-world data center infrastructure deployments."
- * "NVIDIA Air allows users to model data center deployments with full software functionality, creating a digital twin. Transform and accelerate time to AI by simulating, validating, and automating changes and updates."
- * "NVIDIA Air supports simulation of NVIDIA Spectrum Ethernet (Cumulus Linux and SONiC) switches and NVIDIA BlueField DPUs and SuperNICs as well as the NetQ network operations toolset."

NEW QUESTION # 57

You are tasked with troubleshooting a link flapping issue in an InfiniBand AI fabric. You would like to start troubleshooting from the physical layer.

What is the right NVIDIA tool to be used for this task?

- A. tcpdump tool
- B. **mlxlink utility**
- C. nvidia-smi utility

Answer: B

Explanation:

The mlxlink tool is used to check and debug link status and issues related to them. The tool can be used on different links and cables (passive, active, transceiver, and backplane). It is intended for advanced users with appropriate technical background.

Reference:mlxlink Utility - NVIDIA Docs

NEW QUESTION # 58

You are using NVIDIA Air to simulate a Spectrum-X network for AI workloads. You want to ensure that your network configurations are optimal before deployment.

Which NVIDIA tool can be integrated with Air to validate network configurations in the digital twin environment?

- A. GPU Cloud
- B. Spectrum-X Manager
- C. DOCA
- D. **NetQ**

Answer: D

Explanation:

NVIDIA NetQ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real-time. It delivers actionable insights and operational intelligence about the health of data center networks- from the container or host all the way to the switch and port-enabling a NetDevOps approach.

NetQ can be used as the functional test platform for the network CI/CD in conjunction with NVIDIA Air.

Customers benefit from testing the new configuration with NetQ in the NVIDIA Air environment ("digital twin") and fix errors before deploying to their production.

NEW QUESTION # 59

You are automating the deployment of a Spectrum-X network using Ansible. You need to ensure that the playbooks can handle different switch models and configurations efficiently.

Which feature of the NVIDIA NVUE Collection helps simplify the automation by providing pre-built roles for common network configurations?

- A. Collection libraries
- B. Collection plugins
- **C. Collection roles**
- D. Collection modules

Answer: C

Explanation:

The NVIDIA NVUE Collection for Ansible includes pre-built roles designed to streamline automation tasks across various switch models and configurations. These roles encapsulate common network configurations, allowing for efficient and consistent deployment.

By utilizing these roles, network administrators can:

- * Apply standardized configurations across different devices.
- * Reduce the complexity of playbooks by reusing modular components.
- * Ensure consistency and compliance with organizational policies.

This approach aligns with Ansible best practices, promoting maintainability and scalability in network automation.

Reference: NVIDIA NVUE Collection Documentation - Ansible Roles

NEW QUESTION # 60

Which of the following tools in Cumulus Linux is specifically useful for detecting and differentiating microbursts from regular network congestion?

Pick the 2 correct responses below

- A. SNMP polling at 5-minute intervals
- **B. ASIC monitoring with millisecond-level granularity**
- C. Monthly network utilization reports
- **D. What Just Happened (WJH) feature for packet drop analysis**

Answer: B,D

Explanation:

In Cumulus Linux, microbursts are short-lived, high-volume traffic bursts that often go undetected by coarse-grained monitoring like SNMP.

The two tools specifically used for this purpose are:

- * What Just Happened (WJH)

"WJH provides real-time packet drop visibility and classifies drops by reason (e.g., congestion, ACLs, etc.), enabling microburst detection."

- * ASIC monitoring at millisecond granularity

"Deep telemetry is enabled via the switch ASIC, which provides sub-second counters that capture microburst patterns otherwise missed by SNMP." Incorrect Options:

- * A and C provide low-frequency sampling, insufficient for microbursts which last milliseconds.

Reference: NVIDIA NetQ & Cumulus Linux Documentation - What Just Happened (WJH)

NEW QUESTION # 61

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