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NVIDIA-Certified Professional AI Networking Sample Questions (Q65-Q70):

NEW QUESTION # 65

You have implemented adaptive routing in your Spectrum-X network to optimize AI workload performance.

You need to verify the effectiveness of this configuration and monitor its impact on network congestion.

Which tool would be most appropriate for monitoring and analyzing the adaptive routing performance in your Spectrum-X environment?

- A. NetQ
- B. MLNXOS

- C. Ansible
- D. CloudAI Benchmark

Answer: A

Explanation:

NVIDIA NetQ is a comprehensive network operations tool designed to provide real-time visibility into the health and performance of NVIDIA networking environments, including Spectrum-X. It offers detailed telemetry and analytics, allowing administrators to monitor adaptive routing behaviors, detect congestion, and analyze traffic patterns. By leveraging NetQ, you can ensure that adaptive routing is functioning as intended and that the network is optimized for AI workloads.

Reference Extracts from NVIDIA Documentation:

* "The NVIDIA NetQ network validation and ASIC monitoring tool set provide visibility into the network health and behavior. The NetQ flow telemetry analysis shows the paths that data flows take as they traverse the network, providing network latency and performance insights."

* "By leveraging telemetry from Spectrum Ethernet switches and BlueField-3 SuperNICs, NVIDIA NetQ can detect network issues proactively and troubleshoot network issues faster for optimal use of network capacity."

NEW QUESTION # 66

You are troubleshooting InfiniBand connectivity issues in a cluster managed by the NVIDIA Network Operator. You need to verify the status of the InfiniBand interfaces. Which command should you use to check the state and link layer of InfiniBand interfaces on a node?

- A. `rdma show devices`
- B. `ifconfig ib0`
- C. `ibstat -d mlx5_X`
- D. `ip link show dev ib0`

Answer: C

Explanation:

To check the status and link layer of InfiniBand interfaces, the `ibstat` command is used. For example:

```
ibstat -d mlx5_0
```

This command provides detailed information about the InfiniBand device, including its state (e.g., Active), physical state (e.g., LinkUp), and link layer (e.g., InfiniBand).

Reference: NVIDIA DGX BasePOD Deployment Guide - Network Operator Section

NEW QUESTION # 67

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

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

Answer: A

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 # 68

How does Spectrum-X achieve network isolation for multiple tenants?

- A. By implementing physical network segmentation.
- B. Using manual configuration of access control lists (ACLs).
- C. By assigning unique IP address ranges to each tenant.
- **D. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRR**

Answer: D

Explanation:

Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network segment, ensuring that traffic is isolated and secure between tenants.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

NEW QUESTION # 69

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. Monthly network utilization reports
- **C. ASIC monitoring with millisecond-level granularity**
- **D. What Just Happened (WJH) feature for packet drop analysis**

Answer: C,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:

* AandCprovide low-frequency sampling, insufficient for microbursts which last milliseconds.

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

NEW QUESTION # 70

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