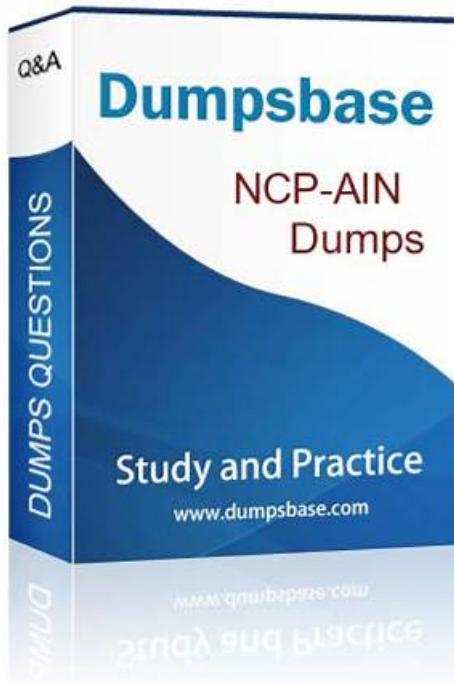


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NVIDIA-Certified Professional AI Networking Sample Questions (Q24-Q29):

NEW QUESTION # 24

What is the total throughput of the SN5600 Spectrum-X switch?

- A. 102.4 gigabits per second
- B. 25.6 terabits per second
- C. 12.8 petabits per second
- D. 51.2 terabits per second

Answer: D

Explanation:

The SN5600 smart-leaf/spine/super-spine switch offers 64 ports of 800GbE in a dense 2U form factor. The SN5600 offers diverse connectivity in combinations of 1 to 800GbE and boasts an industry-leading total throughput of 51.2Tb/s.

Reference:NVIDIA Spectrum SN5600 Ethernet Switch - Bluum

NEW QUESTION # 25

You're troubleshooting a Spectrum-X network and notice that the System Status LED on a switch is blinking for more than 5 minutes. What is the most likely cause of this issue?

- A. The Onyx software did not boot properly
- B. The switch is overheating
- C. The power supply unit is failing

Answer: A

Explanation:

According to the NVIDIA Spectrum-X Switch Operating System (SX_OS) Troubleshooting Guide, the System Status LED behavior is a critical indicator of the switch's internal operational state.

From the document:

"The System Status LED will blink green during system initialization. If the LED continues blinking for more than 5 minutes, it indicates that the Onyx OS has failed to load properly. The system may be stuck in the boot process, or the file system may be corrupted." This blinking LED beyond normal initialization time indicates that the system has either encountered a failure during software boot or is unable to transition from bootloader to the OS runtime environment (i.e., Onyx).

Key causes include:

- * Corrupted or missing system files.
- * Failed firmware or OS upgrade attempts.
- * Boot device (e.g., eMMC or SSD) issues or corrupted partitions.

Technically, during power-on:

- * The switch performs POST (Power-On Self Test).
- * Then the Onyx OS attempts to load from the boot partition.
- * If the Onyx OS kernel or root filesystem is invalid, the system halts boot, and the LED remains in a blinking state, as no successful OS load confirmation is triggered.

Remediation Steps (as per NVIDIA guide):

- * Access the switch through console and monitor boot logs.
- * Use ONIE recovery or re-flash a stable Onyx OS version.
- * Check system storage integrity using built-in diagnostics.

Exact Extract Reference:

Source: NVIDIA SX_OS 3.9.3000 Documentation

Topic: Troubleshooting System Status LED

Extract: "If the LED blinks for more than 5 minutes and the switch is not accessible via CLI, the Onyx software failed to load properly and recovery procedures must be initiated."

NEW QUESTION # 26

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

Answer: A

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 # 27

Which of the following statements are true about AI workloads and adaptive routing?

Pick the 2 correct responses below.

- A. ECMP-based load balancing works best for AI workloads.
- B. AI workloads have very high entropy that helps spread traffic evenly without congestion.
- C. AI workloads are made of a small number of volumetric flows called elephant flows.
- D. Flow-based load balancing mechanisms increase congestion risk.

Answer: C,D

Explanation:

AI workloads, particularly in large-scale training scenarios, are characterized by a small number of high-bandwidth, long-lived flows known as "elephant flows." These flows can dominate network traffic and are prone to causing congestion if not managed effectively. Traditional flow-based load balancing mechanisms, such as Equal-Cost Multipath (ECMP), distribute traffic based on flow hashes. However, in AI workloads with low entropy (i.e., limited variability in flow characteristics), ECMP can lead to uneven traffic distribution and congestion on certain paths.

Adaptive routing techniques, which dynamically adjust paths based on real-time network conditions, are more effective in managing AI traffic patterns and mitigating congestion risks.

Reference: Powering Next-Generation AI Networking with NVIDIA SuperNICs

NEW QUESTION # 28

Which of the following options correctly describes the difference between UFM Telemetry, UFM Enterprise, and UFM Cyber AI?

- A. UFM Telemetry provides real-time monitoring and analysis of network performance. UFM Enterprise detects and mitigates network security threats, and UFM Cyber AI focuses on network management and optimization.
- B. UFM Telemetry detects and mitigates network security threats. UFM Enterprise provides real-time monitoring and analysis of network performance, and UFM Cyber AI focuses on network management and optimization.
- C. UFM Telemetry provides real-time monitoring and analysis of network performance, UFM Enterprise focuses on network management and optimization, and UFM Cyber AI detects and mitigates network security threats.
- D. UFM Telemetry focuses on network management and optimization, UFM Enterprise detects and mitigates network security threats, and UFM Cyber AI provides real-time monitoring and analysis of network performance.

Answer: C

Explanation:

* UFM Telemetry: Provides real-time monitoring and analysis of network performance, collecting data such as port counters and cable information to assess the health and efficiency of the network.

* UFM Enterprise: Focuses on comprehensive network management and optimization, enabling administrators to monitor, operate, and optimize InfiniBand scale-out computing environments effectively.

* UFM Cyber AI: Detects and mitigates network security threats by analyzing telemetry data to identify anomalies and potential security issues within the network infrastructure.

Reference Extracts from NVIDIA Documentation:

* "UFM Telemetry provides real-time monitoring and analysis of network performance."

* "UFM Enterprise is a powerful platform for managing InfiniBand scale-out computing environments."

* "UFM Cyber-AI enhances the benefits of UFM Telemetry and UFM Enterprise services by detecting and mitigating network security threats."

NEW QUESTION # 29

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