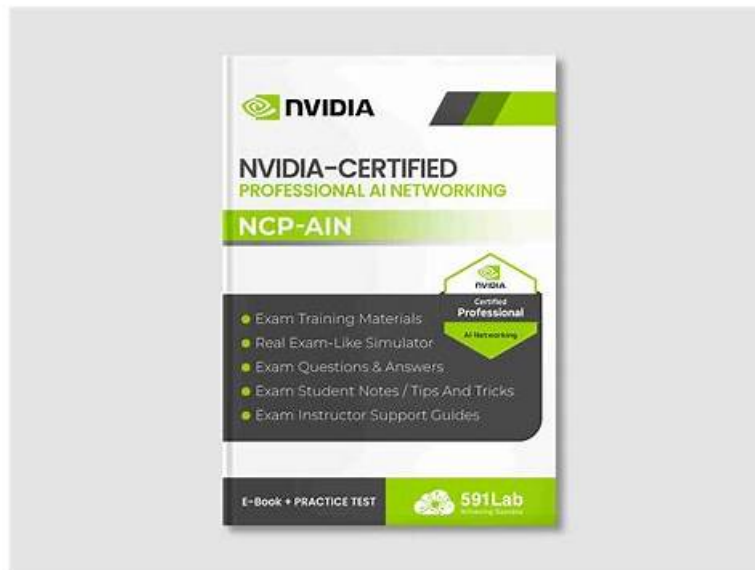


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NVIDIA-Certified Professional AI Networking Sample Questions (Q24-Q29):

NEW QUESTION # 24

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

Answer: C

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 # 25

In a multi-tenant InfiniBand environment managed by UFM, you need to configure access controls to prevent unauthorized users from altering the fabric configuration. Which method is used within UFM to manage user access and ensure authorized modifications only?

- **A. Role-Based Access Control (RBAC)**
- B. Network Access Control (NAC)
- C. Digital Certification Management (DCM)
- D. Virtual Network Segmentation (VNS)

Answer: A

Explanation:

Role-Based Access Control (RBAC) is implemented within NVIDIA's Unified Fabric Manager (UFM) to manage user permissions effectively. RBAC allows administrators to assign roles to users, each with specific permissions, ensuring that only authorized individuals can make changes to the fabric configuration. This structured approach to access control enhances security by limiting the potential for unauthorized modifications and streamlines the management of user privileges across the network.

Reference: Role-Based Access Control (RBAC) - One Identity

NEW QUESTION # 26

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

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

Answer: B

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.

NEW QUESTION # 27

You are troubleshooting connectivity issues in your InfiniBand network and need to test basic connectivity between nodes. Which command should you use to test basic connectivity between InfiniBand nodes?

- A. traceroute
- B. ibnetdiscover
- C. ping
- D. **ibping**

Answer: D

Explanation:

The tool specifically designed for testing InfiniBand connectivity is **ibping**. It functions similarly to the traditional ping utility but is optimized for InfiniBand fabrics.

From the NVIDIA InfiniBand Diagnostic Utilities Documentation:

"ibping tests the connectivity of InfiniBand nodes by sending management datagrams (MADs) and verifying the response from the destination LID or GUID."

- * Tests basic node-to-node reachability
- * Supports testing via LID, GUID, or port number
- * Helps verify subnet manager routing and fabric health

Incorrect Options:

- * ping and traceroute are IP-based, not fabric-aware.
- * ibnetdiscover maps topology but doesn't test live connectivity.

Reference: InfiniBand Diagnostic Tools - ibping

NEW QUESTION # 28

Which command should be used to configure RoCE on a Cumulus switch?

- A. nv qos roce enable on
- B. nv roce qos enable on
- C. **nv set qos roce enable on**
- D. nv set roce qos enable on

Answer: C

Explanation:

Comprehensive and Detailed 150 to 250 words of Explanation From NVIDIA AI Networking Topics:

The correct answer is B. nv set qos roce enable on . In NVIDIA Cumulus Linux, RoCE configuration is managed under the QoS hierarchy in NVUE because RoCE depends on lossless Ethernet behavior, priority flow control, congestion management, and related quality-of-service mechanisms. NVIDIA's official Cumulus Linux documentation shows that the RoCE feature is configured through nv set qos roce , and in newer command references this appears explicitly as nv set qos roce enable on/off . This confirms both the command structure and the ordering of the keywords: nv set # qos # roce # enable on .

The other options are incorrect because they do not follow valid NVUE syntax. NVIDIA documents NVUE commands in a strict object-based order, where the top-level feature group comes immediately after nv set .

Since RoCE is implemented as part of the QoS framework, qos must appear before roce . Commands such as nv set roce qos enable on , nv qos roce enable on , and nv roce qos enable on do not match the official NVIDIA command model. Therefore, for enabling RoCE on a Cumulus switch in an NVIDIA AI networking environment, the verified command is nv set qos roce enable on .

NEW QUESTION # 29

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