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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	AI Network Architecture: This section of the exam measures the skills of AI Infrastructure Architects and covers the ability to distinguish between AI factory and AI data center architectures. It includes understanding how Ethernet and InfiniBand differ in performance and application, and identifying the right storage options based on speed, scalability, and cost to fit AI networking needs.
Topic 2	Spectrum-X Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Network Performance Engineers and covers configuring, managing, and securing NVIDIA Spectrum-X switches. It includes setting performance baselines, resolving performance issues, and using diagnostic tools such as CloudAI benchmark, NCCL, and NetQ. It also emphasizes leveraging DPUs for network acceleration and using monitoring tools like Grafana and SNMP for telemetry analysis.
Topic 3	InfiniBand Configuration, Optimization, Security, and Troubleshooting: This section of the exam measures the skills of Data Center Network Administrators and covers the configuration and operational maintenance of NVIDIA InfiniBand switches. It includes setting up InfiniBand fabrics for multi-tenant environments, managing subnet configurations, testing connectivity, and using UFM to troubleshoot and analyze issues. It also focuses on validating rail-optimized topologies for optimal network performance.

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

NEW QUESTION # 56

What is the basic functionality of an IB Router?

- A. Connecting Ethernet switches to an InfiniBand fabric
- B. Connecting SAN to an InfiniBand fabric
- C. Connecting two (or more) InfiniBand fabrics
- D. Connecting NVLink domains to an InfiniBand fabric

Answer: C

Explanation:

An InfiniBand (IB) Router connects two or more InfiniBand subnets, making it possible for nodes in different subnets to communicate through route-managed communication.

From the official NVIDIA InfiniBand Routers Documentation:

"An InfiniBand router provides connectivity between two or more InfiniBand subnets, enabling communication between hosts that are not on the same subnet while preserving isolation and scalability."

- * Ensures fabric scalability by allowing subnet segmentation.
- * Uses LID routing across subnet managers (SMs).
- * Essential in large clusters with thousands of nodes.

Incorrect Options:

- * A and B are incorrect: InfiniBand does not connect directly to Ethernet or SANs without a gateway.
- * C is unrelated: NVLink is a GPU interconnect, not tied to InfiniBand routers.

Reference: NVIDIA InfiniBand Routers Guide

NEW QUESTION # 57

What are the necessary steps to upgrade the MLNX-OS on InfiniBand Switches?

- A. Restart the switches, connect to the switches using Telnet, and use the 'update' command to perform the upgrade.
- **B. Connect to the switches using SSH, fetch the MLNX-OS software image, and use the 'install' command to perform the upgrade.**
- C. Remove the switches from the switch fabric, fetch the MLNX-OS software image, and use the 'upgrade' command to perform the upgrade.
- D. Power off the switches, insert the installation media, and power on the switches to start the upgrade process.

Answer: B

Explanation:

To upgrade the MLNX-OS on InfiniBand switches, the recommended procedure is as follows:

- * Connect to the switch via SSH: Establish a secure shell connection to the switch using its management IP address.
- * Fetch the MLNX-OS software image: Obtain the appropriate MLNX-OS software image from the official source or repository.
- * Use the 'install' command to perform the upgrade: Execute the 'install' command on the switch to initiate the upgrade process with the fetched software image.

This method ensures a smooth and efficient upgrade without the need for physical intervention or service disruption.

Reference Extracts from NVIDIA Documentation:

- * "Click on Systems # MLNX-OS Upgrade. Select the desired upgrade method (e.g. 'Install from local file'). Select your image and click 'Install Image'."

NEW QUESTION # 58

Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

- **A. WJH**
- B. NCLU
- C. ONIE
- D. BGP

Answer: A

Explanation:

The "What Just Happened" (WJH) service on Cumulus switches provides real-time visibility into network problems by monitoring various layers and components, including layer 1, layer 2, layer 3, tunnel, buffer, and Access Control List (ACL) related issues. WJH streams detailed and contextual telemetry data, enabling administrators to diagnose and troubleshoot network problems effectively.

Reference Extracts from NVIDIA Documentation:

- * "WJH can monitor layer 1, layer 2, layer 3, tunnel, buffer and ACL related issues."
- * "The WJH service enables you to diagnose network problems by looking at dropped packets."

NEW QUESTION # 59

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 power supply unit is failing
- C. The switch is overheating

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

Answer: A,C

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)

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