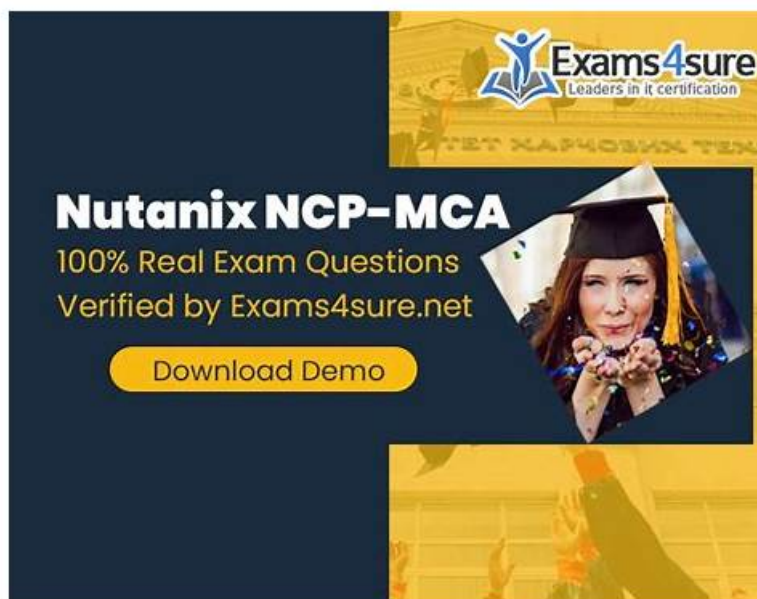


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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	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 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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q31-Q36):

NEW QUESTION # 31

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. `sminfo`
`smpquery ND <LID>`
- B. `sminfo`
`smpquery NI <LID>`
- C. `ibstat`
`sminfo <LID>`
- D. `ibis`
`ibsim <LID>`

Answer: A

Explanation:

To identify the activeSubnet Manager (SM)node in an InfiniBand fabric, the correct command sequence is:

- * `sminfo`
- * Displays general information about the active SM in the fabric, including itsLID.
- * `smpquery ND <LID>`
- * Resolves theNode Description (ND)at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The `sminfo` utility provides the LID of the master SM. Use `smpquery ND <LID>` to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

- * B (NI)is an invalid query type.
- * CandDdo not identify SMs.

Reference: InfiniBand SM Tools - `sminfo` & `smpquery` Usage

NEW QUESTION # 32

When upgrading Cumulus Linux to a new version, which configuration files should be migrated from the old installation?

Pick the 2 correct responses below.

- A. All files in `/etc/network`
- B. All files in `/etc/cumulus/acl`
- C. All files in `/etc`
- D. All files in `/etc/mix`

Answer: A,B

Explanation:

Before upgrading Cumulus Linux, it's essential to back up configuration files to a different server. The `/etc` directory is the primary location for all configuration data in Cumulus Linux. Specifically, the following files and directories should be backed up:

- * `/etc/frr/` - Routing application (responsible for BGP and OSPF)
- * `/etc/hostname` - Configuration file for the hostname of the switch
- * `/etc/network/` - Network configuration files, most notably `/etc/network/interfaces` and `/etc/network`

/interfaces.d/

* /etc/cumulus/acl - Access control list configurations

Cumulus Linux is a network operating system used on NVIDIA Spectrum switches, including those in the Spectrum-X platform, to provide a Linux-based environment for Ethernet networking in AI and HPC data centers. When upgrading Cumulus Linux to a new version, it's critical to migrate specific configuration files to preserve network settings and ensure continuity. The question asks for the two configuration file locations that should be migrated from the old installation during an upgrade.

According to NVIDIA's official Cumulus Linux documentation, the key directories containing configuration files that should be migrated during an upgrade are /etc/cumulus/acl (for access control list configurations) and /etc/network (for network interface configurations). These directories store critical network settings that define the switch's behavior, such as ACL rules and interface settings, which must be preserved to maintain network functionality after the upgrade.

Exact Extract from NVIDIA Documentation:

"When upgrading Cumulus Linux, you must back up and migrate specific configuration files to ensure continuity of network settings.

The following directories should be included in the backup:

* /etc/cumulus/acl: Contains access control list (ACL) configuration files that define packet filtering and security policies.

* /etc/network: Contains network interface configuration files, such as interfaces and ifupdown2 settings, which define the network interfaces and their properties. Back up these directories before upgrading and restore them after the new version is installed to maintain consistent network behavior."-NVIDIA Cumulus Linux Upgrade Guide This extract confirms that options A and B are the correct answers, as /etc/cumulus/acl and /etc/network contain essential configuration files that must be migrated during a Cumulus Linux upgrade. These files ensure that ACL policies and network interface settings are preserved, which are critical for Spectrum-X configurations in AI networking environments.

Reference:Upgrading Cumulus Linux - NVIDIA Docs

NEW QUESTION # 33

You are concerned about potential security threats and unexpected downtime in your InfiniBand data center.

Which UFM platform uses analytics to detect security threats, operational issues, and predict network failures in InfiniBand data centers?

- **A. Cyber-AI Platform**
- B. Host Agent
- C. Enterprise Platform
- D. Telemetry Platform

Answer: A

Explanation:

The NVIDIA UFM Cyber-AI Platform is specifically designed to enhance security and operational efficiency in InfiniBand data centers. It leverages AI-powered analytics to detect security threats, operational anomalies, and predict potential network failures. By analyzing real-time telemetry data, it identifies abnormal behaviors and performance degradation, enabling proactive maintenance and threat mitigation.

This platform integrates with existing UFM Enterprise and Telemetry services to provide a comprehensive view of the network's health and security posture. It utilizes machine learning algorithms to establish baselines for normal operations and detect deviations that may indicate security breaches or hardware issues.

Reference:NVIDIA UFM Cyber-AI Documentation v2.9.1

NEW QUESTION # 34

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

Answer: A

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 # 35

You are troubleshooting a Spectrum-X network and need to ensure that the network remains operational in case of a link failure. Which feature of Spectrum-X ensures that the fabric continues to deliver high performance even if there is a link failure?

- A. RoCE Adaptive Routing
- B. RoCE Congestion Control
- C. NVIDIA NetQ
- D. RoCE Performance Isolation

Answer: A

Explanation:

RoCE Adaptive Routing is a key feature of NVIDIA Spectrum-X that ensures high performance and resiliency in the network, even in the event of a link failure. This technology dynamically reroutes traffic to the least congested and operational paths, effectively mitigating the impact of link failures. By continuously evaluating the network's egress queue loads and receiving status notifications from neighboring switches, Spectrum-X can adaptively select optimal paths for data transmission. This ensures that the network maintains high throughput and low latency, crucial for AI workloads, even when certain links are down.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X employs global adaptive routing to quickly reroute traffic during link failures, minimizing disruptions and preserving optimal storage fabric utilization."

* "RoCE Adaptive Routing avoids congestion by dynamically routing large AI flows away from congestion points. This approach improves network resource utilization, leaf/spine efficiency, and performance."

NEW QUESTION # 36

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