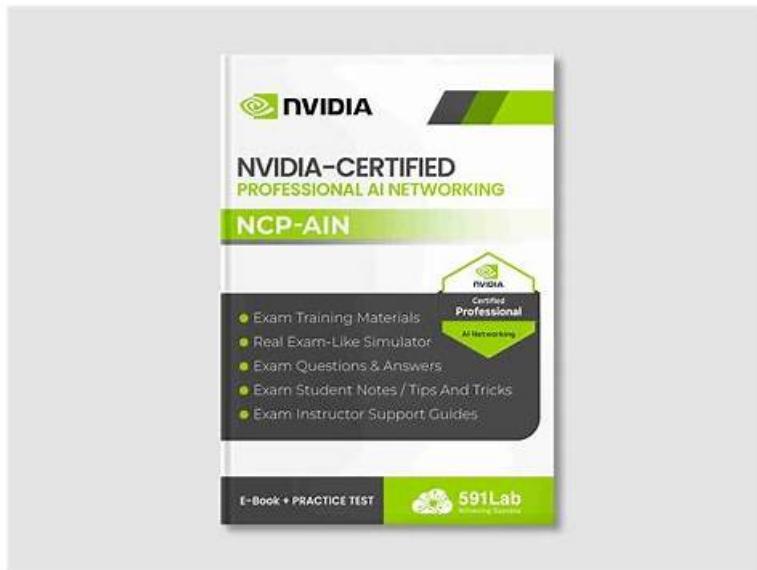


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## NVIDIA NCP-AIN Exam Syllabus Topics:

| Topic   | Details   |
|---------|---|
| Topic 1 | <ul style="list-style-type: none"><li>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.</li></ul> |

|         |   |
|---------|---|
| Topic 2 | <ul style="list-style-type: none"> <li>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.</li> </ul>         |
| Topic 3 | <ul style="list-style-type: none"> <li>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.</li> </ul> |

## NVIDIA-Certified Professional AI Networking Sample Questions (Q47-Q52):

### NEW QUESTION # 47

You are configuring the Unified Fabric Manager (UFM) for an InfiniBand fabric in a multi-tenant environment. You need to implement a solution that can detect potential security threats.

Which UFM feature uses analytics to detect security threats and predict network failures in InfiniBand data centers?

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

**Answer: A**

Explanation:

The UFM Cyber-AI platform is an advanced feature of NVIDIA's Unified Fabric Manager designed to enhance security and reliability in InfiniBand data centers. It leverages AI-powered analytics and machine learning techniques to detect security threats, operational anomalies, and predict potential network failures.

By analyzing real-time and historical telemetry data, UFM Cyber-AI can identify abnormal system behaviors, performance degradations, and usage profile changes. This proactive approach enables administrators to address issues before they escalate, ensuring the integrity and uptime of the data center.

Reference Extracts from NVIDIA Documentation:

- \* "The NVIDIA Unified Fabric Manager (UFM) Cyber-AI platform offers enhanced and real-time network telemetry, combined with AI-powered intelligence and advanced analytics. It enables IT managers to discover operational anomalies and even predict network failures."
- \* "UFM Cyber-AI uses machine learning (ML) techniques and AI models for anomaly detection and prediction to learn the lifecycle patterns of data center network components."
- \* "The NVIDIA UFM platforms revolutionize data center networking management by combining enhanced, real-time network telemetry with AI-powered cyber intelligence and analytics to support scale-out InfiniBand data centers. ... The UFM Cyber-AI platform takes fabric management to the next level by adding an analytics layer powered by artificial intelligence. It enables data center operators to proactively monitor and manage the InfiniBand fabric, predicting and preventing potential failures, optimizing performance, and enhancing security. By analyzing telemetry data and historical patterns, UFM Cyber-AI can detect anomalies that may indicate security threats or operational issues, providing actionable insights to prevent downtime."

### NEW QUESTION # 48

In order to configure RoCE on a Cumulus switch, which command should be used?

- 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:

To enable RDMA over Converged Ethernet (RoCE) on a Cumulus switch, the correct command is:

nv set qos roce enable on

This command configures the Quality of Service (QoS) settings to support RoCE, ensuring that the necessary parameters for lossless Ethernet are applied.

Reference: NVIDIA Cumulus Linux Documentation - RDMA over Converged Ethernet (RoCE)

#### NEW QUESTION # 49

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

**Answer: D**

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 # 50

What are the two general user account types in MLNX-OS?

Pick the 2 correct responses below:

- A. **admin**
- B. viewer
- C. **monitor**
- D. enable

**Answer: A,C**

Explanation:

MLNX-OS, the operating system for NVIDIA's networking devices, defines two primary user account types: admin and monitor. The admin account has full administrative privileges, allowing for complete configuration and management of the system. The monitor account, on the other hand, is designed for users who need to view system configurations and statuses without making any changes. This separation ensures a clear distinction between users who manage the system and those who monitor its operations.

Reference Extracts from NVIDIA Documentation:

- \* "There are two user roles or account types: admin and monitor. As 'admin', the user is privileged to run all the available commands. As 'monitor', the user can run commands that show system configuration and status, or set terminal settings." MLNX-OS is the network operating system used on NVIDIA's Mellanox Ethernet switches, including the Spectrum family (e.g., Spectrum-4 switches in the Spectrum-X platform), designed for high-performance Ethernet networking in AI and HPC data centers. MLNX-OS provides a command-line interface (CLI) for configuring and managing switch operations, with user accounts controlling access to various commands and functions. The question asks for the two general user account types in MLNX-OS, which define the primary privilege levels for user access.

According to NVIDIA's official MLNX-OS documentation, the two general user account types in MLNX-OS are:

\* monitor: This account type has read-only access, allowing users to view configurations, status, and logs but not modify settings. It is used for monitoring and troubleshooting without risking unintended changes.

\* admin: This account type has full read-write access, enabling users to view and modify all configurations, execute commands, and manage the switch's operations. It is intended for administrators with complete control over the system.

These two account types represent the primary privilege levels in MLNX-OS, providing a clear distinction between read-only

monitoring and full administrative access.

Exact Extract from NVIDIA Documentation:

"MLNX-OS supports two primary user account types for managing switch operations:

\* monitor: Users with monitor privileges have read-only access to the system. They can view configuration details, system status, and logs but cannot make changes to the configuration.

\* admin: Users with admin privileges have full read-write access, allowing them to configure, manage, and troubleshoot all aspects of the switch, including executing privileged commands. These account types ensure secure and controlled access to the switch's management functions."-NVIDIA MLNX-OS User Manual This extract confirms that options B (monitor) and C (admin) are the correct answers. These account types are the standard privilege levels in MLNX-OS, used to manage access for monitoring and administrative tasks on Spectrum switches, including those in Spectrum-X deployments.

## NEW QUESTION # 51

You are configuring an InfiniBand network for an AI cluster and need to install the appropriate software stack. Which NVIDIA software package provides the necessary drivers and tools for InfiniBand configuration in Linux environments?

- A. CUDA Toolkit
- B. NVIDIA GPU Cloud
- C. NVIDIA Container Runtime
- **D. MLNX\_OFED**

**Answer: D**

Explanation:

MLNX\_OFED (Mellanox OpenFabrics Enterprise Distribution) is an NVIDIA-tested and packaged version of the OpenFabrics Enterprise Distribution (OFED) for Linux. It provides the necessary drivers and tools to support InfiniBand and Ethernet interconnects using the same RDMA (Remote Direct Memory Access) and kernel bypass APIs. MLNX\_OFED enables high-performance networking capabilities essential for AI clusters, including support for up to 400Gb/s InfiniBand and RoCE (RDMA over Converged Ethernet).

Reference Extracts from NVIDIA Documentation:

\* "MLNX\_OFED is an NVIDIA tested and packaged version of OFED that supports two interconnect types using the same RDMA (remote DMA) and kernel bypass APIs called OFED verbs - InfiniBand and Ethernet."

\* "Up to 400Gb/s InfiniBand and RoCE (based on the RDMA over Converged Ethernet standard) over 10 /25/40/50/100/200/400GbE are supported."

## NEW QUESTION # 52

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