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## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>InfiniBand Configuration, Optimization, Security, and Troubleshooting:</b> 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>
Topic 2	<ul style="list-style-type: none"><li>• <b>AI Network Architecture:</b> 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 3	<ul style="list-style-type: none"><li>• <b>Spectrum-X Configuration, Optimization, Security, and Troubleshooting:</b> 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>

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## **NVIDIA-Certified Professional AI Networking Sample Questions (Q33-Q38):**

### **NEW QUESTION # 33**

You are planning to deploy a large-scale Spectrum-X network for AI workloads. Before physical implementation, you want to validate the network design and configuration using a digital twin approach.

Which NVIDIA tool would be most appropriate for creating and simulating a digital twin of your Spectrum-X network?

- A. NVIDIA Omniverse
- **B. NVIDIA Air**
- C. NVIDIA Base Command Manager
- D. NVIDIA NetQ

**Answer: B**

Explanation:

NVIDIA Air is a cloud-based network simulation tool designed to create digital twins of data center infrastructure, including Spectrum-X networks. It allows users to model switches, SuperNICs, and storage components, enabling the simulation, validation, and automation of network configurations before physical deployment. This facilitates Day 0, 1, and 2 operations, ensuring that network designs are tested and optimized for AI workloads.

Reference Extracts from NVIDIA Documentation:

\* "NVIDIA Air enables cloud-scale efficiency by creating identical replicas of real-world data center infrastructure deployments."

\* "NVIDIA Air allows users to model data center deployments with full software functionality, creating a digital twin. Transform and accelerate time to AI by simulating, validating, and automating changes and updates."

\* "NVIDIA Air supports simulation of NVIDIA Spectrum Ethernet (Cumulus Linux and SONiC) switches and NVIDIA BlueField DPUs and SuperNICs as well as the NetQ network operations toolset."

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

**Answer: B**

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 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 # 36

You are implementing a multi-tenant environment on your Spectrum-X switches for different departments in your organization. You need to ensure that each department's network traffic is isolated and secure.

Which Spectrum-X security feature would be most effective in creating isolated network environments for each department?

- A. Enable Link Layer Discovery Protocol (LLDP)
- B. Set UP Port Mirroring
- C. Configure Virtual Routing and Forwarding (VRF)
- D. Implement Access Control Lists (ACLs)

**Answer: C**

Explanation:

Virtual Routing and Forwarding (VRF) is the most effective method to achieve network segmentation and isolation in a multi-tenant environment.

From the NVIDIA Cumulus Linux Documentation - VRF Section:

"VRF allows multiple instances of routing tables to coexist within the same switch, effectively isolating traffic between tenants or departments." Each department can:

- \* Operate in its own VRF domain
- \* Have independent routing tables
- \* Maintain strict separation of Layer 3 paths

Incorrect Options:

- \* A (Port Mirroring)- Used for traffic monitoring, not isolation.
- \* C (ACLs)- Useful for fine-grained filtering, but not scalable tenant isolation.
- \* D (LLDP)- Used for neighbor discovery, not security or isolation.

Reference: Cumulus Linux - VRF Support on Spectrum Switches

#### NEW QUESTION # 37

Which of the following scenarios would the Network Traffic Map in UFM be least useful for troubleshooting?

- A. After making changes to network configuration.
- B. When optimizing job placement and workload distribution across the cluster.
- C. When investigating reports of network congestion or latency problems.
- D. When troubleshooting a single node's hardware failure.

**Answer: D**

Explanation:

The Network Traffic Map in NVIDIA's Unified Fabric Manager (UFM) provides a visual representation of the network topology and traffic flows, which is particularly useful for identifying congestion points, verifying network configurations, and optimizing workload distribution.

However, when troubleshooting a single node's hardware failure, the Network Traffic Map is less effective, as it focuses on network-level issues rather than individual hardware components.

#### NEW QUESTION # 38



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