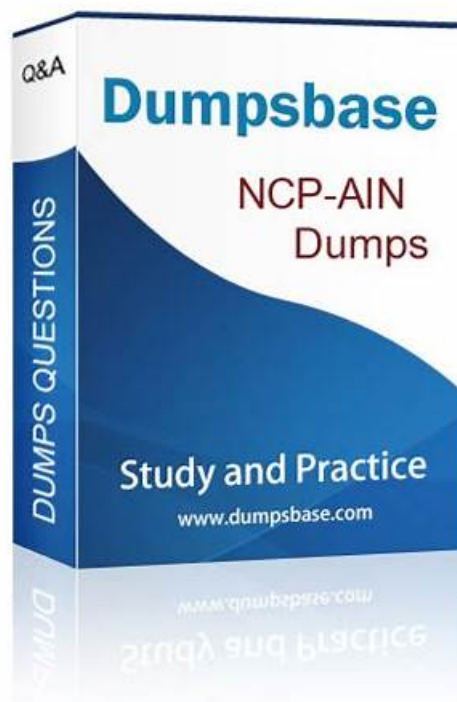


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NVIDIA NCP-AIN Exam Syllabus Topics:

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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q16-Q21):

NEW QUESTION # 16

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

Answer: B,C

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 # 17

What are two methods for accessing the operating system on a BlueField DPU?

Pick the 2 correct responses below

- A. Via the Redfish API
- **B. Via rshim over a USB connection on the host**
- C. Via the networking interfaces (data ports) in NIC mode
- **D. Via the rshim interface over the PCIe bus**

Answer: B,D

Explanation:

Accessing the BlueField DPU Operating System (OS) is possible through rshim, either over PCIe or USB, and via SSH through the OOB interface when in DPU mode.

From the NVIDIA BlueField Software Documentation:

"You can access the BlueField OS through the rshim interface. The rshim module enables host-to-DPU communication either via PCIe (default) or USB."

* B. rshim over PCIe: Default when BlueField is installed in a host.

* D. rshim over USB: Useful for provisioning or systems without PCIe drivers.

Incorrect Options:

* A (NIC mode): BlueField acts as a transparent NIC; OS access is not available to the host.

* C (Redfish): Redfish is for out-of-band management, not direct OS-level access.

Reference: Accessing BlueField OS - rshim via PCIe and USB Methods

NEW QUESTION # 18

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

Answer: B

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 # 19

Your organization is planning to utilize Ethernet for an upcoming AI project. Spectrum-X is the selected platform for this deployment, and Adaptive Routing is a key feature.

What are the requirements included in the Spectrum-X RA for adaptive routing?

- A. SN5600, BlueField-3 SuperNIC, DDR, TCP traffic
- B. SN4700, BlueField-3 SuperNIC, DDR, RoCE traffic
- **C. SN5600, BlueField-3 SuperNIC, DDR, RoCE traffic**

Answer: C

Explanation:

The NVIDIA Spectrum-X Reference Architecture (RA) 1.0.1 is designed for Ethernet AI cloud deployments and includes the

SN5600 Spectrum-4 switches and BlueField-3 SuperNICs. This architecture supports adaptive routing and DOCA programmable congestion control (PCC) for lossless RoCE traffic, optimizing performance for AI workloads. The SN5600 switch offers 64 ports of 800GbE in a dense 2U form factor, providing high throughput and low latency essential for AI applications.

NEW QUESTION # 20

You are using NVIDIA Air to simulate a Spectrum-X network for AI workloads. You want to ensure that your network configurations are optimal before deployment.

Which NVIDIA tool can be integrated with Air to validate network configurations in the digital twin environment?

- A. Spectrum-X Manager
- B. DOCA
- C. GPU Cloud
- **D. NetQ**

Answer: D

Explanation:

NVIDIA NetQ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real-time. It delivers actionable insights and operational intelligence about the health of data center networks—from the container or host all the way to the switch and port—enabling a NetDevOps approach.

NetQ can be used as the functional test platform for the network CI/CD in conjunction with NVIDIA Air.

Customers benefit from testing the new configuration with NetQ in the NVIDIA Air environment ("digital twin") and fix errors before deploying to their production.

NEW QUESTION # 21

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