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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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 (Q20-Q25):

NEW QUESTION # 20

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/mix
- D. All files in /etc

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 # 21

A major cloud provider is designing a new data center to support large-scale AI workloads, particularly for training large language models. They want to optimize their network architecture for maximum performance and efficiency.

Why is a rail-optimized topology considered a best practice for AI network architecture in this scenario?

- A. It prioritizes north-south traffic over east-west traffic for better internet connectivity.

- B. It simplifies network management by using a single large switch for all connections.
- **C. It provides optimal GPU-to-GPU communication and reduces network interference between flows.**
- D. It maximizes the number of network hops to increase data redundancy.

Answer: C

Explanation:

A rail-optimized topology is designed to enhance GPU-to-GPU communication by connecting each GPU's Network Interface Card (NIC) to a dedicated rail switch. This configuration ensures predictable traffic patterns and minimizes network interference between data flows, which is crucial for the performance of large-scale AI workloads, such as training large language models. By reducing contention and latency, this topology supports efficient and scalable AI training environments.

Reference Extracts from NVIDIA Documentation:

- * "Rail-optimized network topology helps maximize all-reduce performance while minimizing network interference between flows."
- * "A Rail Optimized Stripe Architecture provides efficient data transfer between GPUs, especially during computationally intensive tasks such as AI Large Language Models (LLM) training workloads, where seamless data transfer is necessary to complete the tasks within a reasonable timeframe."

NEW QUESTION # 22

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. Enterprise platform
- C. Telemetry platform
- D. Host Agent

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 # 23

When designing a multi-tenancy East/West (E/W) fabric using Unified Fabric Manager (UFM), which method should be used?

- A. VLAN
- B. VXLAN
- C. ROMA
- **D. Partition / PKey**

Answer: D

Explanation:

In InfiniBand networks, Partitioning using Partition Keys (PKeys) is the standard method for implementing multi-tenancy and traffic isolation. PKeys allow administrators to define logical partitions within the fabric, ensuring that traffic is confined to designated groups of nodes. This mechanism is essential for creating secure and isolated environments in multi-tenant architectures. The Unified Fabric Manager (UFM) leverages PKeys to manage these partitions effectively, enabling administrators to assign and control access rights across different tenants. This approach ensures that each tenant's traffic remains isolated, maintaining both security and performance integrity within the shared fabric.

Reference: NVIDIA UFM Enterprise User Manual v6.15.6-4

NEW QUESTION # 24

What is the basic functionality of an IB Router?

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

Answer: A

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 # 25

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