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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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">• 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q37-Q42):

NEW QUESTION # 37

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 # 38

You are tasked with configuring multi-tenancy using partition key (PKey) for a high-performance storage fabric running on InfiniBand. Each tenant's GPU server is allowed to access the shared storage system but cannot communicate with another tenant's GPU server.

Which of the following partition key membership configurations would you implement to set up multi-tenancy in this environment?

- **A. Assign full membership PKey to the shared storage system and limited membership PKey to each tenant's GPU servers.**
- B. Assign full membership to both GPU servers and storage system
- C. Assign limited membership to both GPU servers and storage system
- D. Assign limited membership PKey to the shared storage system and full membership PKey to each tenant's GPU servers.

Answer: A

Explanation:

To enforce strict multi-tenancy, where:

- * Tenant A's GPU cannot talk to Tenant B's GPU
- * But both can access shared storage

The correct solution is:

- * Storage system # Full PKey membership
- * Each tenant's GPU # Limited PKey membership

From the NVIDIA InfiniBand P_Key Partitioning Guide:

"A port with limited membership can only communicate with full members of the same PKey. It cannot communicate with other limited members, even within the same partition." This isolates tenants from each other, while allowing shared access to storage.

Incorrect Options:

- * A permits tenant-to-tenant communication.
- * B isolates everything, including access to storage.
- * C prevents GPU access to storage.

Reference: NVIDIA InfiniBand - Multi-Tenant PKey Partitioning Design

NEW QUESTION # 39

You're troubleshooting a Spectrum-X network and notice that the System Status LED on a switch is blinking for more than 5 minutes. What is the most likely cause of this issue?

- A. The Onyx software did not boot properly
- B. The switch is overheating
- C. The power supply unit is failing

Answer: A

Explanation:

According to the NVIDIA Spectrum-X Switch Operating System (SX_OS) Troubleshooting Guide, the System Status LED behavior is a critical indicator of the switch's internal operational state.

From the document:

"The System Status LED will blink green during system initialization. If the LED continues blinking for more than 5 minutes, it indicates that the Onyx OS has failed to load properly. The system may be stuck in the boot process, or the file system may be corrupted." This blinking LED beyond normal initialization time indicates that the system has either encountered a failure during software boot or is unable to transition from bootloader to the OS runtime environment (i.e., Onyx).

Key causes include:

- * Corrupted or missing system files.
- * Failed firmware or OS upgrade attempts.
- * Boot device (e.g., eMMC or SSD) issues or corrupted partitions.

Technically, during power-on:

- * The switch performs POST (Power-On Self Test).
- * Then the Onyx OS attempts to load from the boot partition.
- * If the Onyx OS kernel or root filesystem is invalid, the system halts boot, and the LED remains in a blinking state, as no successful OS load confirmation is triggered.

Remediation Steps (as per NVIDIA guide):

- * Access the switch through console and monitor boot logs.
- * Use ONIE recovery or re-flash a stable Onyx OS version.
- * Check system storage integrity using built-in diagnostics.

Exact Extract Reference:

Source: NVIDIA SX_OS 3.9.3000 Documentation

Topic: Troubleshooting System Status LED

Extract: "If the LED blinks for more than 5 minutes and the switch is not accessible via CLI, the Onyx software failed to load properly and recovery procedures must be initiated."

NEW QUESTION # 40

In which mode of the BlueField DPU does the ARM system on the DPU control the NIC data path, but allow access to the DPU OS from the host?

- A. DPU mode
- B. Restricted mode
- C. Separated Host mode
- D. NIC mode

Answer: A

Explanation:

In DPU Mode, the ARM cores on BlueField control the NIC data path, while still allowing the host system to access the DPU OS (via OOB or virtio).

From NVIDIA BlueField Documentation:

"In DPU Mode, the data path is offloaded to the BlueField Arm cores, enabling advanced security and networking functions, while still allowing host access to the BlueField OS." This is different from:

- * NIC Mode: Data path controlled by host, ARM cores inactive.
- * Separated Host Mode: Complete isolation; host cannot access DPU OS.
- * Restricted Mode: Limited host access to DPU OS, but without full offload capabilities.

Reference: NVIDIA BlueField DPU Architecture Guide - Operating Modes Section

NEW QUESTION # 41

You are automating the deployment of a Spectrum-X network using Ansible. You need to ensure that the playbooks can handle different switch models and configurations efficiently.

Which feature of the NVIDIA NVUE Collection helps simplify the automation by providing pre-built roles for common network

configurations?

- A. Collection libraries
- **B. Collection roles**
- C. Collection modules
- D. Collection plugins

Answer: B

Explanation:

The NVIDIA NVUE Collection for Ansible includes pre-built roles designed to streamline automation tasks across various switch models and configurations. These roles encapsulate common network configurations, allowing for efficient and consistent deployment.

By utilizing these roles, network administrators can:

- * Apply standardized configurations across different devices.
- * Reduce the complexity of playbooks by reusing modular components.
- * Ensure consistency and compliance with organizational policies.

This approach aligns with Ansible best practices, promoting maintainability and scalability in network automation.

Reference: NVIDIA NVUE Collection Documentation - Ansible Roles

NEW QUESTION # 42

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