

2026 The Best NCP-AIN: Valid NVIDIA-Certified Professional AI Networking Test Preparation



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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q58-Q63):

NEW QUESTION # 58

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

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 # 59

How does Spectrum-X achieve network isolation for multiple tenants?

- **A. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRR**
- B. By implementing physical network segmentation.
- C. By assigning unique IP address ranges to each tenant.
- D. Using manual configuration of access control lists (ACLs).

Answer: A

Explanation:

Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network

segment, ensuring that traffic is isolated and secure between tenants.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

NEW QUESTION # 60

You are investigating a performance issue in a Spectrum-X network and suspect there might be congestion problems.

Which component executes the congestion control algorithm in a Spectrum-X environment?

- A. Spectrum-4 switches
- B. NVIDIA DOCA software
- **C. BlueField-3 SuperNICs**
- D. NVIDIA NetQ

Answer: C

Explanation:

In the Spectrum-X architecture, BlueField-3 SuperNICs are responsible for executing the congestion control algorithm. They handle millions of congestion control events per second with microsecond reaction latency, applying fine-grained rate decisions to manage data flow effectively. This ensures optimal network performance by preventing congestion and packet loss.

Reference:NVIDIA Spectrum-X Networking Platform

NEW QUESTION # 61

Which tool would you use to gather telemetry data in a SpectrumX network?

- A. UFM
- B. BCM
- C. NVIEW
- **D. NetQ**

Answer: D

Explanation:

The NVIDIA Spectrum-X networking platform is an Ethernet-based solution optimized for AI workloads, combining Spectrum-4 switches, BlueField-3 SuperNICs, and advanced software to deliver high performance and low latency. Gathering telemetry data is critical for optimizing Spectrum-X networks, as it provides visibility into network performance, congestion, and potential issues. The question asks for the tool used to collect telemetry data in a Spectrum-X network.

According to NVIDIA's official documentation, NVIDIA NetQ is the primary tool for gathering telemetry data in Ethernet-based networks, including those running on Spectrum-X platforms with Cumulus Linux or SONiC. NetQ is a network operations toolset that provides real-time monitoring, telemetry collection, and analytics for network health, enabling administrators to optimize performance, troubleshoot issues, and validate configurations. It collects detailed telemetry data such as link status, packet drops, latency, and congestion metrics, which are essential for Spectrum-X optimization.

Exact Extract from NVIDIA Documentation:

"NVIDIA NetQ is a highly scalable network operations tool that provides telemetry-based monitoring and analytics for Ethernet networks, including NVIDIA Spectrum-X platforms. NetQ collects real-time telemetry data from switches and hosts, offering insights into network performance, congestion, and connectivity. It supports Cumulus Linux and SONiC environments, making it ideal for optimizing Spectrum-X networks by providing visibility into key metrics like latency, throughput, and packet loss."

-NVIDIA NetQ User Guide

This extract confirms that option C, NetQ, is the correct tool for gathering telemetry data in a Spectrum-X network. NetQ's integration with Spectrum-X switches and its ability to collect and analyze telemetry data make it the go-to solution for network optimization tasks.

NEW QUESTION # 62

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

Answer: B

Explanation:

To enforce strictmulti-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 # 63

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