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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 (Q68-Q73):

NEW QUESTION # 68
In order to configure RoCE on a Cumulus switch, which command should be used?

- A. nv set roce qos enable on
- B. nv qos roce enable on
- C. nv set qos roce enable on
- D. nv roce qos enable on

Answer: C

Explanation:
To enable RDMA over Converged Ethernet (RoCE) on a Cumulus switch, the correct command is:
nv set qos roce enable on
This command configures the Quality of Service (QoS) settings to support RoCE, ensuring that the necessary parameters for lossless Ethernet are applied.
Reference: NVIDIA Cumulus Linux Documentation - RDMA over Converged Ethernet (RoCE)

NEW QUESTION # 69
You need to configure a bond in Cumulus Linux. Which command should you use?

- A. nv set interface bond1 bond mode lacp
- B. nv set interface bond1 bond member swp1-4
- C. nv set bondbond1 interface member swp1-4
- D. nv set interface bond1 bond mlag enable

Answer: A

Explanation:
In Cumulus Linux, configuring a bond interface with Link Aggregation Control Protocol (LACP) involves setting the bond mode to 'lacp'. The correct command to achieve this is:
nv set interface bond1 bond mode lacp
This command sets the bonding mode of 'bond1' to LACP, enabling dynamic link aggregation for increased bandwidth and redundancy.
Reference Extracts from NVIDIA Documentation:
* "To reset the link aggregation mode for bond1 to the default value of 802.3ad, run the nv set interface bond1 bond mode lacp command."

NEW QUESTION # 70
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 NetQ

- B. NVIDIA Air
- C. NVIDIA Omniverse
- D. NVIDIA Base Command Manager

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 # 71
What are the prerequisites for performing Flow Analysis with NetQ?

- A. Cumulus 5.x and later / Spectrum-2 and later / LCM enabled
- B. Cumulus 4.x and later / Spectrum-2 and later / LCM enabled
- C. Cumulus 5.x and later / Spectrum-3 and later / On-premises deployment
- D. Cumulus 5.x and later / Spectrum-2 and later / On-premises deployment

Answer: A

Explanation:
To perform Flow Analysis with NetQ, the following prerequisites must be met:
* Cumulus Linux Version: NetQ Flow Analysis requires Cumulus Linux 5.x or later.
* Switch Hardware: The feature is supported on Spectrum-2 and later switch models.
* Lifecycle Management (LCM): LCM must be enabled to utilize Flow Analysis capabilities.
These requirements ensure compatibility and proper functioning of the Flow Analysis feature within NetQ.
Reference: NVIDIA NetQ Documentation - Flow Analysis Prerequisites

NEW QUESTION # 72
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 provides optimal GPU-to-GPU communication and reduces network interference between flows.
- B. It maximizes the number of network hops to increase data redundancy.
- C. It prioritizes north-south traffic over east-west traffic for better internet connectivity.
- D. It simplifies network management by using a single large switch for all connections.

Answer: A

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 # 73
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