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1 / 7

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q34-Q39):

NEW QUESTION # 34
What is the total throughput of the SN5600 Spectrum-X switch?

- A. 51.2 terabits per second
- B. 102.4 gigabits per second
- C. 25.6 terabits per second
- D. 12.8 petabits per second

Answer: A

Explanation:
The SN5600 smart-leaf/spine/super-spine switch offers 64 ports of 800GbE in a dense 2U form factor. The SN5600 offers diverse connectivity in combinations of 1 to 800GbE and boasts an industry-leading total throughput of 51.2Tb/s.
Reference:NVIDIA Spectrum SN5600 Ethernet Switch - Bluum

NEW QUESTION # 35
In order to configure RoCE on a Cumulus switch, which command should be used?

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

Answer: A

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 # 36
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 # 37
Which of the following routing protocols is not capable of avoiding credit loops?

- A. FAT TREE
- B. All routing protocols are capable of avoiding credit loops
- C. UPDOWN
- D. MINHOP

Answer: D

Explanation:
TheMINHOProuting protocol, while efficient in finding minimal paths, does not inherently prevent credit loops. This can lead to deadlocks in the network. In contrast, routing protocols like UPDOWN and FAT TREE are designed to avoid such loops, ensuring more reliable network operation.
Reference:Optimized Routing for Large-Scale InfiniBand Networks

NEW QUESTION # 38
What are the two general user account types in MLNX-OS?
Pick the 2 correct responses below:

- A. monitor
- B. admin
- C. enable
- D. viewer

Answer: A,B

Explanation:
MLNX-OS, the operating system for NVIDIA's networking devices, defines two primary user account types: adminandmonitor. Theadminaccount has full administrative privileges, allowing for complete configuration and management of the system. Themonitoraccount, on the other hand, is designed for users who need to view system configurations and statuses without making any changes. This separation ensures a clear distinction between users who manage the system and those who monitor its operations.
Reference Extracts from NVIDIA Documentation:
* "There are two user roles or account types: admin and monitor. As 'admin', the user is privileged to run all the available commands. As 'monitor', the user can run commands that show system configuration and status, or set terminal settings." MLNX-OS is the network operating system used on NVIDIA's Mellanox Ethernet switches, including the Spectrum family (e.g., Spectrum-4 switches in the Spectrum-X platform), designed for high-performance Ethernet networking in AI and HPC data centers. MLNX-OS provides a command-line interface (CLI) for configuring and managing switch operations, with user accounts controlling access to various commands and functions. The question asks for the two general user account types in MLNX-OS, which define the primary privilege levels for user access.
According to NVIDIA's official MLNX-OS documentation, the two general user account types in MLNX-OS are:
* monitor: This account type has read-only access, allowing users to view configurations, status, and logs but not modify settings. It

is used for monitoring and troubleshooting without risking unintended changes.
* admin: This account type has full read-write access, enabling users to view and modify all configurations, execute commands, and manage the switch's operations. It is intended for administrators with complete control over the system.
These two account types represent the primary privilege levels in MLNX-OS, providing a clear distinction between read-only monitoring and full administrative access.
Exact Extract from NVIDIA Documentation:
"MLNX-OS supports two primary user account types for managing switch operations:
* monitor: Users with monitor privileges have read-only access to the system. They can view configuration details, system status, and logs but cannot make changes to the configuration.
* admin: Users with admin privileges have full read-write access, allowing them to configure, manage, and troubleshoot all aspects of the switch, including executing privileged commands.These account types ensure secure and controlled access to the switch's management functions."-NVIDIA MLNX-OS User Manual This extract confirms that options B (monitor) and C (admin) are the correct answers. These account types are the standard privilege levels in MLNX-OS, used to manage access for monitoring and administrative tasks on Spectrum switches, including those in Spectrum-X deployments.

NEW QUESTION # 39
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