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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	• 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 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q26-Q31):

NEW QUESTION # 26
What is the purpose of configuring NVUE to ignore Linux files?

- A. Enable pushing of configuration through Ansible template files.
- B. Improve Cumulus security by reducing the attack surface.
- C. Reduce NVUE memory utilization to optimize performance.
- D. Enable the persistent manipulation of specific settings using both NVUE and flat-file approaches.

Answer: D

Explanation:
Configuring NVUE to ignore certain underlying Linux files allows administrators to manage specific settings manually or through automation tools like Ansible withoutNVUE overwriting these configurations. This approach enables the persistent manipulation of settings using both NVUE and flat-file methods, providing flexibility in network management.

NEW QUESTION # 27
What are the two general user account types in MLNX-OS?
Pick the 2 correct responses below:

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

Answer: C,D

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 # 28
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 switch is overheating
- B. The Onyx software did not boot properly
- C. The power supply unit is failing

Answer: B

Explanation:
According to theNVIDIA Spectrum-X Switch Operating System (SX_OS) Troubleshooting Guide, the System Status LED

behavioris 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 hasfailed 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 throughconsoleandmonitor boot logs.
* UseONIE recoveryor 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 # 29
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 maximizes the number of network hops to increase data redundancy.
- B. It provides optimal GPU-to-GPU communication and reduces network interference between flows.
- 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: B

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 # 30
A user has requested confirmation that the InfiniBand network is performing optimally and is not limiting the speed of a training run. To verify this, you would like to measure the RDMA throughput rate between two endpoints.
Which tool should be used?

- A. ib_write_bw
- B. ibdiagnet
- C. ping
- D. iperf

Answer: A

Explanation:
The ib_write_bw tool is part of the Perftest package and is specifically designed to measure the bandwidth of RDMA write operations between two InfiniBand endpoints. It provides accurate assessments of RDMA throughput, which is crucial for verifying the performance of InfiniBand networks in high-performance computing and AI training environments.
Reference:ib_write_bw - NVIDIA Enterprise Support Portal

NEW QUESTION # 31
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