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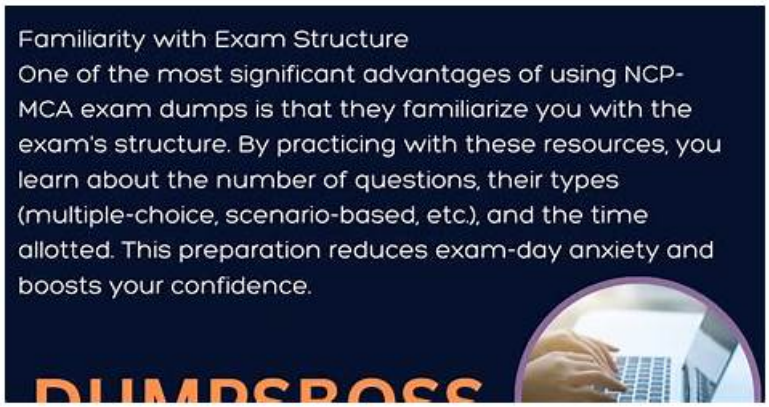

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NVIDIA NCP-AIN Exam Syllabus Topics:

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 (Q10-Q15):

NEW QUESTION # 10
When upgrading Cumulus Linux to a new version, which configuration files should be migrated from the old installation?
Pick the 2 correct responses below.

- A. All files in /etc
- B. All files in /etc/mix
- C. All files in /etc/network
- D. All files in /etc/cumulus/acl

Answer: C,D

Explanation:
Before upgrading Cumulus Linux, it's essential to back up configuration files to a different server. The /etc directory is the primary location for all configuration data in Cumulus Linux. Specifically, the following files and directories should be backed up:
* /etc/frr/ - Routing application (responsible for BGP and OSPF)
* /etc/hostname - Configuration file for the hostname of the switch
* /etc/network/ - Network configuration files, most notably /etc/network/interfaces and /etc/network /interfaces.d/
* /etc/cumulus/acl - Access control list configurations
Cumulus Linux is a network operating system used on NVIDIA Spectrum switches, including those in the Spectrum-X platform, to provide a Linux-based environment forEthernet networking in AI and HPC data centers. When upgrading Cumulus Linux to a new version, it's critical to migrate specific configuration files to preserve network settings and ensure continuity. The question asks for the two configuration file locations that should be migrated from the old installation during an upgrade.
According to NVIDIA's official Cumulus Linux documentation, the key directories containing configuration files that should be migrated during an upgrade are /etc/cumulus/acl (for access control list configurations) and /etc/network (for network interface configurations). These directories store critical network settings that define the switch's behavior, such as ACL rules and interface settings, which must be preserved to maintain network functionality after the upgrade.
Exact Extract from NVIDIA Documentation:
"When upgrading Cumulus Linux, you must back up and migrate specific configuration files to ensure continuity of network settings. The following directories should be included in the backup:
* /etc/cumulus/acl: Contains access control list (ACL) configuration files that define packet filtering and security policies.
* /etc/network: Contains network interface configuration files, such as interfaces and ifupdown2 settings, which define the network interfaces and their properties.Back up these directories before upgrading and restore them after the new version is installed to maintain consistent network behavior."-NVIDIA Cumulus Linux Upgrade Guide This extract confirms that options A and B are the correct answers, as /etc/cumulus/acl and /etc/network contain essential configuration files that must be migrated during a Cumulus Linux upgrade. These files ensure that ACL policies and network interface settings are preserved, which are critical for Spectrum-X configurations in AI networking environments.
Reference:Upgrading Cumulus Linux - NVIDIA Docs

NEW QUESTION # 11
What does NetQ leverage (in addition to NVIDIA "What Just Happened" switch telemetry data and NVIDIA DOCA telemetry) to help network operators proactively identify server and application root cause issues?

- A. Packet capture telemetry
- B. Behavioral telemetry
- C. Application telemetry
- D. Flow telemetry

Answer: B

Explanation:
NetQ integrates multiple telemetry sources, includingWJH, DOCA, and notably, Behavioral Telemetry.

NEW QUESTION # 12
When creating a simulation in NVIDIA AIR, what syntax would you use to define a link between port 1 on spine-01 and port 41 on gpu-leaf-01?

- A. "spine-01 'eth1" to "gpu-leaf-01":"eth41"
- B. "spine-01":*swp01" - *gpu-leaf-01":"swp41"
- C. "spine-01":"eth1" - "gpu-leaf-01":"eth41"
- D. "spine-01":"swp1" to "gpu-leaf-01":"swp41"

Answer: B

Explanation:
NVIDIA AIR (AI-Ready Infrastructure) is a cloud-based simulation platform designed to model and validate data center network deployments, including Spectrum-X Ethernet networks, using realistic topologies and configurations. When creating a custom topology in NVIDIA AIR, users can define network links between devices (e.g., spine and leaf switches) using a DOT file format, which is based on the Graphviz graph visualization software. The question asks for the correct syntax to define a link between port 1 on a spine switch (spine-01) and port 41 on a leaf switch (gpu-leaf-01) in a NVIDIA AIR simulation.
According to NVIDIA's official NVIDIA AIR documentation, the DOT file format is used to specify network topologies, including nodes (devices) and links (connections between ports). The syntax for defining a link in a DOT file uses a double dash (--) to indicate a connection between two ports, with each port specified in the format "<node>":"<port>". For Spectrum-X networks, which typically use Cumulus Linux or SONiC on NVIDIA Spectrum switches, ports are commonly labeled as swpX (switch port X) rather than ethX (Ethernet interface), especially for switch-to- switch connections in a leaf-spine topology. The correct syntax for the link between port 1 on spine-01 and port 41 on gpu-leaf-01 is:
"spine-01":"swp01" -- "gpu-leaf-01":"swp41"
This syntax uses swp01 and swp41 to denote switch ports, consistent with Cumulus Linux conventions, and the double dash (--) to indicate the link, as required by the DOT file format.

NEW QUESTION # 13
What is a key advantage of using NVIDIA's Mellanox InfiniBand in AI networking environments?

- A. Faster inter-node communication with low-latency and high-throughput
- B. Lower power consumption
- C. Higher GPU utilization
- D. Reduced data storage requirements

Answer: A

Explanation:
Mellanox InfiniBand provides ultra-fast, low-latency communication between nodes, enabling faster data movement and optimal performance for distributed AI/ML workloads.

NEW QUESTION # 14
Which technology does NVIDIA use to provide high-speed communication between GPUs in AI workloads?

- A. CUDA-X AI
- B. NVLink
- C. HyperTransport
- D. Ethernet

Answer: B

Explanation:
NVLink is a high-bandwidth, energy-efficient interconnect technology used by NVIDIA to allow high-speed communication between GPUs, which is essential for scaling AI workloads across multiple GPUs.

NEW QUESTION # 15

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