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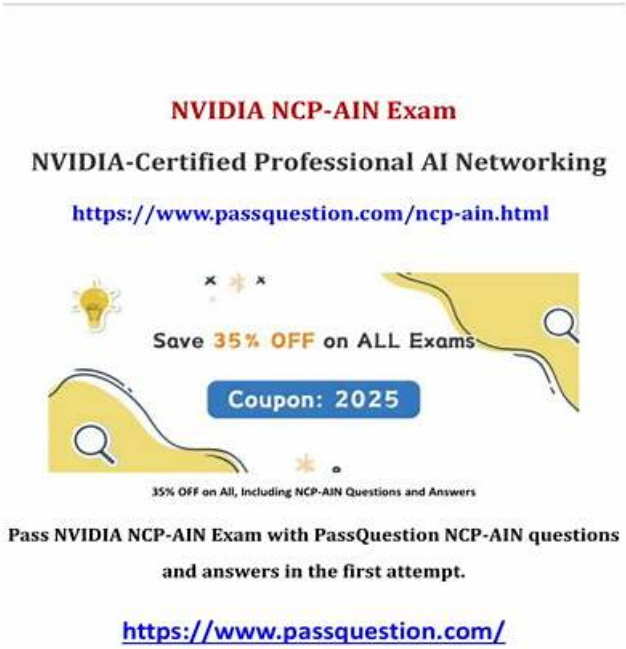

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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	• 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 (Q45-Q50):

NEW QUESTION # 45
You have implemented adaptive routing in your Spectrum-X network to optimize AI workload performance.
You need to verify the effectiveness of this configuration and monitor its impact on network congestion.
Which tool would be most appropriate for monitoring and analyzing the adaptive routing performance in your Spectrum-X environment?

- A. NetQ
- B. CloudAI Benchmark
- C. Ansible
- D. MLNXOS

Answer: A

Explanation:
NVIDIA NetQ is a comprehensive network operations tool designed to provide real-time visibility into the health and performance of NVIDIA networking environments, including Spectrum-X. It offers detailed telemetry and analytics, allowing administrators to monitor adaptive routing behaviors, detect congestion, and analyze traffic patterns. By leveraging NetQ, you can ensure that adaptive routing is functioning as intended and that the network is optimized for AI workloads.
Reference Extracts from NVIDIA Documentation:
* "The NVIDIA NetQ network validation and ASIC monitoring tool set provide visibility into the network health and behavior. The NetQ flow telemetry analysis shows the paths that data flows take as they traverse the network, providing network latency and performance insights."
* "By leveraging telemetry from Spectrum Ethernet switches and BlueField-3 SuperNICs, NVIDIA NetQ can detect network issues proactively and troubleshoot network issues faster for optimal use of network capacity."

NEW QUESTION # 46
In an AI cluster using NVIDIA GPUs, which configuration parameter in the NicClusterPolicy custom resource is crucial for enabling high-speed GPU-to-GPU communication across nodes?

- A. OFED Driver
- B. RDMA Shared Device Plugin
- C. NV IPAM
- D. Secondary Network

Answer: B

Explanation:
The RDMA Shared Device Plugin is a critical component in the NicClusterPolicy custom resource for enabling Remote Direct Memory Access (RDMA) capabilities in Kubernetes clusters. RDMA allows for high-throughput, low-latency networking, which is essential for efficient GPU-to-GPU communication across nodes in AI workloads. By deploying the RDMA Shared Device Plugin, the cluster can leverage RDMA-enabled network interfaces, facilitating direct memory access between GPUs without involving the CPU, thus optimizing performance.

NEW QUESTION # 47
How is congestion evaluated in an NVIDIA Spectrum-X system?

- A. By measuring the number of connected devices in the network.
- B. By analyzing the egress queue loads ensuring all ports are well-balanced.
- C. By monitoring the CPU and power usage of network devices.
- D. By assessing the physical distance between network devices.

Answer: B

Explanation:
In NVIDIA Spectrum-X, congestion is evaluated based on egress queue loads. Spectrum-4 switches assess the load on each egress queue and select the port with the minimal load for packet transmission. This approach ensures that all ports are well-balanced, optimizing network performance and minimizing congestion.

NEW QUESTION # 48
What are the necessary steps to upgrade the MLNX-OS on InfiniBand Switches?

- A. Restart the switches, connect to the switches using Telnet, and use the 'update' command to perform the upgrade.
- B. Connect to the switches using SSH, fetch the MLNX-OS software image, and use the 'install' command to perform the upgrade.
- C. Power off the switches, insert the installation media, and power on the switches to start the upgrade process.
- D. Remove the switches from the switch fabric, fetch the MLNX-OS software image, and use the 'upgrade' command to perform the upgrade.

Answer: B

Explanation:
To upgrade the MLNX-OS on InfiniBand switches, the recommended procedure is as follows:
* Connect to the switch via SSH: Establish a secure shell connection to the switch using its management IP address.
* Fetch the MLNX-OS software image: Obtain the appropriate MLNX-OS software image from the official source or repository.
* Use the 'install' command to perform the upgrade: Execute the 'install' command on the switch to initiate the upgrade process with the fetched software image.
This method ensures a smooth and efficient upgrade without the need for physical intervention or service disruption.
Reference Extracts from NVIDIA Documentation:
* "Click on Systems # MLNX-OS Upgrade. Select the desired upgrade method (e.g. 'Install from local file'). Select your image and click 'Install Image'."

NEW QUESTION # 49
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 simplifies network management by using a single large switch for all connections.
- B. It maximizes the number of network hops to increase data redundancy.
- C. It provides optimal GPU-to-GPU communication and reduces network interference between flows.
- D. It prioritizes north-south traffic over east-west traffic for better internet connectivity.

Answer: C

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 # 50
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