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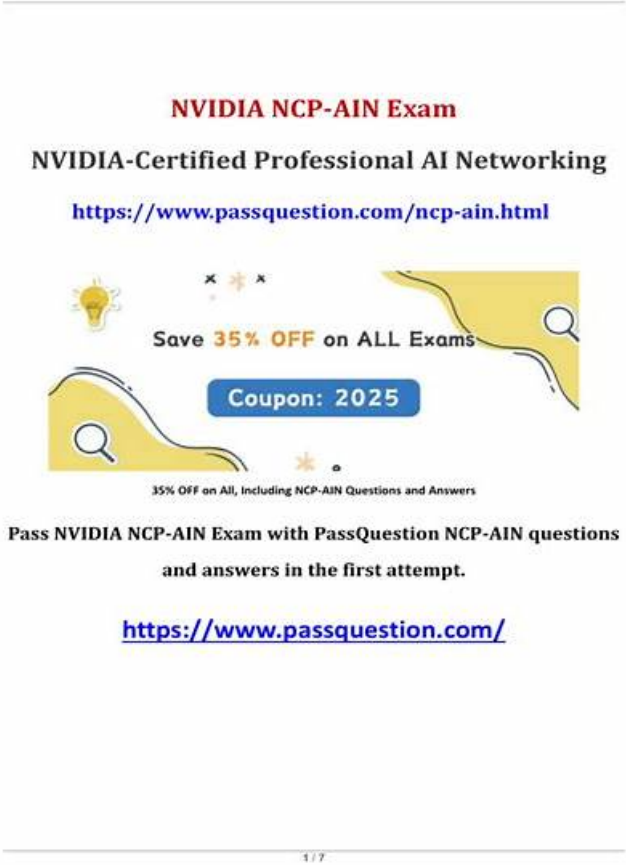

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NVIDIA NCP-AIN Exam Syllabus Topics:

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.

NCP-AIN Test Testking, NCP-AIN Customized Lab Simulation

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NVIDIA-Certified Professional AI Networking Sample Questions (Q11-Q16):

NEW QUESTION # 11
You are optimizing a multi-node AI training cluster using InfiniBand networking and NVIDIA GPUs. You need to implement efficient collective communication operations across the nodes.
Which feature of NVIDIA Collective Communications Library (NCCL) allows for optimized performance in multi-subnet InfiniBand environments?

- A. Static plugin linking
- B. Lazy connection establishment
- C. GPU Direct RDMA
- D. Support for IB Router

Answer: D

Explanation:
Inmulti-subnet InfiniBand environments, AI training clusters are segmented across network zones (or subnets). Direct GPU-to-GPU communication (especially for collective ops like AllReduce, Broadcast, etc.) requires inter-subnet reachability. NCCL supports this via theInfiniBand Router (IB Router)feature.
From theNCCL User Guide - Environment Variables Section:
"NCCL_IB_USE_IB_ROUTER: Enables NCCL support for IB routers which are used in multi-subnet InfiniBand fabrics. When enabled, NCCL can traverse IB subnets using a properly configured IB router." This is critical because without IB Router support:
* NCCL would be restricted to intra-subnet GPU collectives.
* Multi-node training across subnets would fail or fall back to slower TCP fallback mechanisms.
Technical Explanation:
* IB Routers usesubnet managers(like OpenSM with routing tables) to bridge communication across different InfiniBand partitions.
* NCCL queries the subnet topology, discovers routing paths, and usesRDMA CM(Connection Manager) to establish GPU transport over routers.
* This capability is especially important in data center-scale AI clusters spanning multiple racks or zones, connected viaIB routers like Mellanox SB7800 or QM8700 series.
When NCCL_IB_USE_IB_ROUTER=1 is set:
* NCCL includes router-aware route resolution in its path selection logic.
* Enables efficientzero-copy communicationacross GPUs in different IB domains, maintaining low latency.
Other Options Explained:
* A. Lazy connection establishment- controls when peer connections are made but does not enable cross-subnet reach.
* B. GPU Direct RDMA- enables intra-node direct memory access, not applicable for routing across subnets.
* C. Static plugin linking- affects how NCCL links plugins, not related to IB topology.
Exact Extract Reference:
Source: NVIDIA NCCL User Guide - Environment Variables Section
Extract: "NCCL_IB_USE_IB_ROUTER: Enables NCCL support for IB routers, required for multi-subnet InfiniBand configurations. Ensures proper routing of collectives over fabric-wide topologies."

NEW QUESTION # 12
Which of the following is the main benefit of GPU-accelerated networking in AI workloads?

- A. Lower power consumption
- B. Reduced data center cooling requirements
- C. Faster data movement and reduced latency
- D. Increased storage capacity

Answer: C

Explanation:
GPU-accelerated networking enhances the speed at which data is transmitted, ensuring lower latency and faster throughput, which is crucial for real-time AI applications and deep learning.

NEW QUESTION # 13
You are deploying a Kubernetes cluster for AI workloads using NVIDIA Spectrum-X switches. You need to automate the deployment and management of networking components in this environment.
Which NVIDIA tool is specifically designed to automate the deployment and management of networking components in a Kubernetes cluster with Spectrum-X switches?

- A. Network Operator
- B. Mellanox OFED
- C. GPU Operator
- D. Container Runtime

Answer: A

NEW QUESTION # 14
Which of the following commands would you use to assign the IP address 20.11.12.13 to the management interface in SONiC?

- A. sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
- B. interface mgmt0 vrf mgmt ip address 20.11.12.13 20.11.12.254
- C. nv set interface mgmt ip 20.11.12.13 20.11.12.254
- D. config ip add etho 20.11.12.13/24 20.11.12.254

Answer: A

Explanation:
In SONiC, to assign a static IP address to the management interface, the correct command is:
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
This command sets the IP address and the default gateway for the management interface.
SONiC (Software for Open Networking in the Cloud) is an open-source network operating system used on NVIDIA Spectrum-X platforms, including Spectrum-4 switches, to provide a flexible and scalable networking solution for AI and HPC data centers.
Configuring the management interface in SONiC is a critical task for enabling remote access and network management. The question asks for the correct command to assign the IP address 20.11.12.13 to the management interface, typically identified as eth0 in SONiC, as it is the default management interface for out-of-band management.
Based on NVIDIA's official SONiC documentation, the correct command to assign an IP address to the management interface involves using the config command-line utility, which is part of SONiC's configuration framework. The command sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254 is the standard method to configure the IP address and gateway for the eth0 management interface. This command specifies the interface (eth0), the IP address with its subnet mask (20.11.12.13/24), and the default gateway (20.11.12.254), ensuring proper network connectivity.
Exact Extract from NVIDIA Documentation:
"To configure the management interface in SONiC, use the config interface ip add command. For example, to assign an IP address to the eth0 management interface, run:
sudo config interface ip add eth0 <IP_ADDRESS>/<PREFIX_LENGTH> <GATEWAY> Example:
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
This command adds the specified IP address and gateway to the management interface, enabling network access."

-NVIDIA SONiC Configuration Guide
This extract confirms that option C is the correct command for assigning the IP address to the management interface in SONiC. The use of sudo ensures the command is executed with the necessary administrative privileges, and the syntax aligns with SONiC's configuration model, which persists the changes in the configuration database.
Reference:Dell EMC Networking S-Series Basic Switch Management Configuration

NEW QUESTION # 15
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 set roce qos enable on
- D. nv 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.

NEW QUESTION # 16
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