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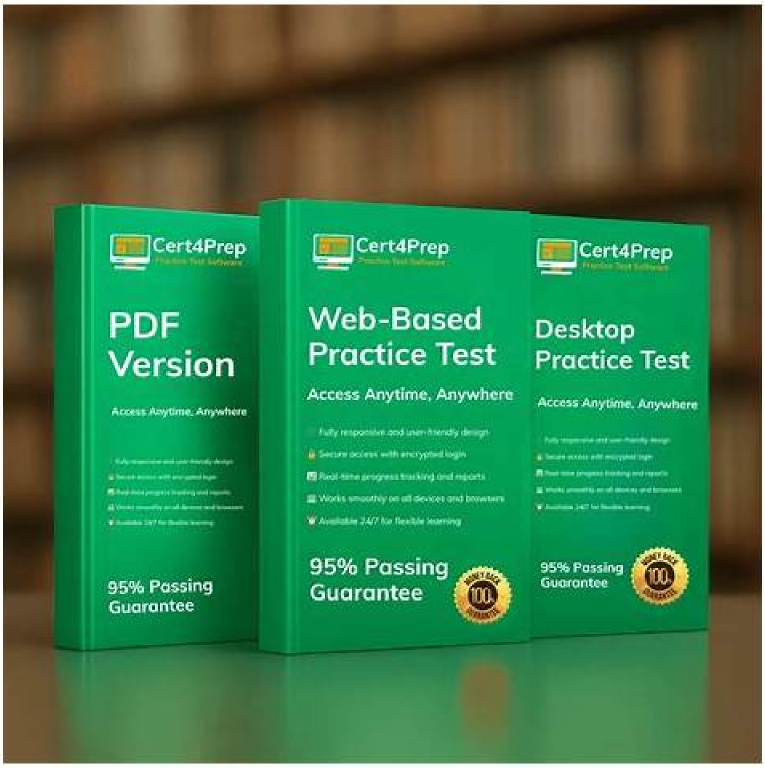

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NVIDIA NCP-AIN Exam Syllabus Topics:

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	• 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 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.

NCP-AIN Practice Exam | NCP-AIN Real Questions

The most important part of NVIDIA NCP-AIN exam preparation is practice, and the right practice is often the difference between success and failure. TestSimulate also makes your preparation easier with practice test software to help you get hands-on exam experience before the actual NVIDIA-Certified Professional AI Networking (NCP-AIN) exam. After consistent practice, the final exam will not be too difficult for a student who has already practiced from real NVIDIA NCP-AIN exam questions.

NVIDIA-Certified Professional AI Networking Sample Questions (Q19-Q24):

NEW QUESTION # 19
In which mode of the BlueField DPU does the ARM system on the DPU control the NIC data path, but allow access to the DPU OS from the host?

- A. NIC mode
- B. Restricted mode
- C. DPU mode
- D. Separated Host mode

Answer: C

NEW QUESTION # 20
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 # 21
You are optimizing an AI workload that involves multiple GPUs across different nodes in a data center. The application requires both high-bandwidth GPU-to-GPU communication within nodes and efficient communication between nodes.
Which combination of NVIDIA technologies would best support this multi-node, multi-GPU AI workload?

- A. NVLink for intra-node GPU communication and InfiniBand for inter-node communication.
- B. InfiniBand for both intra-node and inter-node GPU communication.
- C. PCIe for intra-node GPU communication and RoCE for inter-node communication.
- D. NVLink for both intra-node and inter-node GPU communication.

Answer: A

Explanation:
For optimal performance in multi-node, multi-GPU AI workloads:
* NVLinkprovides high-speed, low-latency communication between GPUs within the same node.
* InfiniBandoffers efficient, scalable communication between nodes in a data center.Combining these technologies ensures both intra-node and inter-node communication needs are effectively met.
Reference:NVIDIA NVLink & NVSwitch: Fastest HPC Data Center Platform

NEW QUESTION # 22
You suspect there might be connectivity issues in your InfiniBand fabric and need to perform a comprehensive check. Which tool should you use to run a full fabric diagnostic and generate a report?

- A. taping
- B. ibnetdiscover
- C. ibdiagnet
- D. perfquery

Answer: C

Explanation:
The ibdiagnet utility is a fundamental tool for InfiniBand fabric discovery, error detection, and diagnostics. It provides comprehensive reports on the fabric's health, including error reporting, switch and Host Channel Adapter (HCA) configuration dumps, various counters reported by the switches and HCAs, and parameters of devices such as switch fans, power supply units, cables, and PCI lanes. Additionally, ibdiagnet performs validation for Unicast Routing, Adaptive Routing, and Multicast Routing to ensure correctness and a credit- loop-free routing environment.
Reference Extracts from NVIDIA Documentation:
* "The ibdiagnet utility is one of the basic tools for InfiniBand fabric discovery, error detection and diagnostic. The output files of the ibdiagnet include error reporting, switch and HCA configuration dumps, various counters reported by the switches and the HCAs."
* "ibdiagnet also performs Unicast Routing, Adaptive Routing and Multicast Routing validation for correctness and credit-loop free routing."

NEW QUESTION # 23

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. SN4700, BlueField-3 SuperNIC, DDR, RoCE traffic
- B. SN5600, BlueField-3 SuperNIC, DDR, RoCE traffic
- C. SN5600, BlueField-3 SuperNIC, DDR, TCP traffic

Answer: B

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 # 24

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