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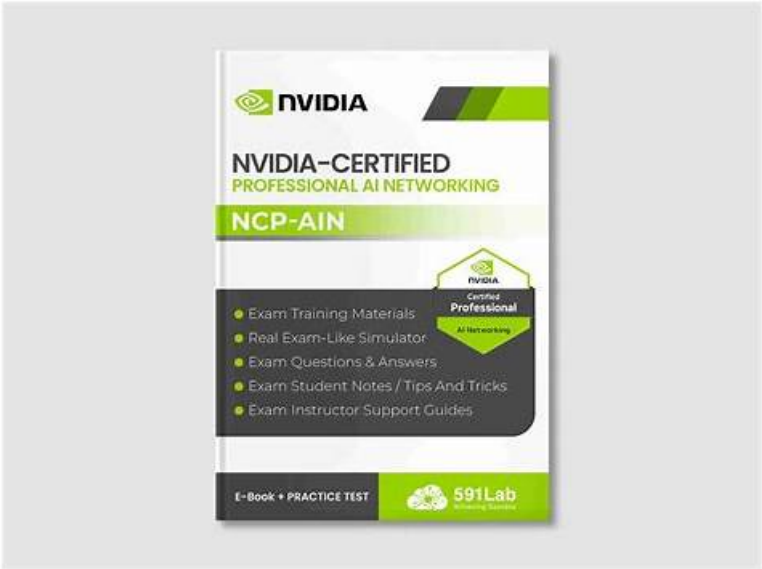

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NVIDIA NCP-AIN Exam Syllabus Topics:

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	• 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 (Q10-Q15):

NEW QUESTION # 10
A cloud service provider is deploying the NVIDIA Spectrum-X Ethernet platform in a multi-tenant environment. To ensure the security and isolation of each tenant's AI workload, the provider wants to implement a feature that prevents unauthorized accessto the network.
Which of the following features of the Spectrum-X platform should the provider implement?

- A. Streaming Telemetry
- B. Congestion Control
- C. Adaptive Routing
- D. Traffic Isolation

Answer: D

Explanation:
In multi-tenant AI cloud environments, ensuring that each tenant's workloads are isolated and secure is paramount. The NVIDIA Spectrum-X platform addresses this need through itsTraffic Isolationcapabilities.
This feature ensures that network resources are partitioned effectively, preventing unauthorized access and interference between tenants. By implementing Traffic Isolation, the provider can maintain strict boundaries between different tenant environments, ensuring both security and performance consistency.
Reference Extracts from NVIDIA Documentation:
* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."
* "Spectrum-X utilizes the programmable congestion control function on the BlueField-3 hardware platform to accurately assess the congestion condition of the traffic path by using in-band telemetry information... to achieve the goal of performance isolation to ensure that each tenant gets the best expected performance in the cloud and is not negatively affected by congestion of other tenants."

NEW QUESTION # 11
A fabric administrator added new servers to a 40-port edge switch. The administrator now needs to gather and map the newly added ports' LIDs and LINK SPEED. Which of the following commands can be used for that purpose?

- A. ibswitches
- B. ibhosts
- C. ib_check_routes
- D. ibnetdiscover

Answer: D

Explanation:
The correct utility isibnetdiscover.
From the official NVIDIA InfiniBand Utilities Guide:
"ibnetdiscover scans the fabric and returns a topology of all switches and end nodes, including their GUIDs, LIDs, port numbers, and link speeds." It generates a fabric map with node-to-port relationships and shows:
* GUIDs
* LIDs (Local IDs)
* Link speeds and widths
* Switch-to-host connections
This is essential for network topology validation and mapping physical port additions.
Incorrect Options:
* ib_check_routes- for routing table diagnostics.
* ibhosts- shows host information but not switch-level port mapping.
* ibswitches- shows switch info, but lacks port-level LID/link speed mapping.
Reference: NVIDIA InfiniBand Tools - ibnetdiscover Utility

NEW QUESTION # 12
You are designing a new AI data center for a research institution that requires high-performance computing for large-scale deep learning models. The institution wants to leverage NVIDIA's reference architectures for optimal performance.
Which NVIDIA reference architecture would be most suitable for this high-performance AI research environment?

- A. NVIDIA LaunchPad
- B. NVIDIA DGX Cloud
- C. NVIDIA DGX SuperPOD
- D. NVIDIA Base Command Platform

Answer: C

Explanation:
TheNVIDIA DGX SuperPODis a turnkey AI supercomputing infrastructure designed for large-scale deep learning and high-performance computing workloads. It integrates multiple DGX systems with high-speed networking and storage solutions, providing a scalable and efficient platform for AI research institutions. The architecture supports rapid deployment and is optimized for training complex models, making it the ideal choice for environments demanding top-tier AI performance.
Reference:DGX SuperPOD Architecture - NVIDIA Docs

NEW QUESTION # 13
You are concerned about potential security threats and unexpected downtime in your InfiniBand data center.
Which UFM platform uses analytics to detect security threats, operational issues, and predict network failures in InfiniBand data centers?

- A. Cyber-AI Platform
- B. Telemetry Platform
- C. Enterprise Platform
- D. Host Agent

Answer: A

Explanation:
TheNVIDIA UFM Cyber-AI Platformis specifically designed to enhance security and operational efficiency in InfiniBand data centers. It leverages AI-powered analytics to detect security threats, operational anomalies, and predict potential network failures. By analyzing real-time telemetry data, it identifies abnormal behaviors and performance degradation, enabling proactive maintenance and threat mitigation.
This platform integrates with existing UFM Enterprise and Telemetry services to provide a comprehensive view of the network's health and security posture. It utilizes machine learning algorithms to establish baselines for normal operations and detect deviations that may indicate security breaches or hardware issues.
Reference:NVIDIA UFM Cyber-AI Documentation v2.9.1

NEW QUESTION # 14
Why is the InfiniBand LRH called a local header?

- A. It is used for routing traffic between nodes in the local subnet.
- B. It allows traffic on a local link only.
- C. It provides the parameters for each local HCA.
- D. It provides the LIDs from the local subnet manager.

Answer: A

Explanation:
TheLocal Route Header (LRH)in InfiniBand is termed "local" because it is used exclusively for routing packets within a single subnet. The LRH contains the destination and source Local Identifiers (LIDs), which are unique within a subnet, facilitating efficient routing without the need for global addressing. This design optimizes performance and simplifies routing within localized network segments. InfiniBand is a high-performance, low-latency interconnect technology widely used in AI and HPC data centers, supported by NVIDIA's Quantum InfiniBand switches and adapters. The Local Routing Header (LRH) is a critical component of the InfiniBand packet structure, used to facilitate routing within an InfiniBand fabric. The question asks why the LRH is called a "local header,"

which relates to its role in the InfiniBand network architecture.
According to NVIDIA's official InfiniBand documentation, the LRH is termed "'local' because it contains the addressing information necessary for routing packets between nodes within the same InfiniBand subnet." The LRH includes fields such as the Source Local Identifier (SLID) and Destination Local Identifier (DLID), which are assigned by the subnet manager to identify the source and destination endpoints within the local subnet. These identifiers enable switches to forward packets efficiently within the subnet without requiring global routing information, distinguishing the LRH from the Global Routing Header (GRH), which is used for inter-subnet routing.
Exact Extract from NVIDIA Documentation:
"The Local Routing Header (LRH) is used for routing InfiniBand packets within a single subnet. It contains the Source LID (SLID) and Destination LID (DLID), which are assigned by the subnet manager to identify the source and destination nodes in the local subnet. The LRH is called a 'local header' because it facilitates intra-subnet routing, enabling switches to forward packets based on LID-based forwarding tables."
-NVIDIA InfiniBand Architecture Guide
This extract confirms that option A is the correct answer, as the LRH's primary function is to route traffic between nodes within the local subnet, leveraging LID-based addressing. The term "local" reflects its scope, which is limited to a single InfiniBand subnet managed by a subnet manager.
Reference:LRH and GRH InfiniBand Headers - NVIDIA Enterprise Support Portal

NEW QUESTION # 15
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