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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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q70-Q75):

NEW QUESTION # 70

You are investigating a performance issue in a Spectrum-X network and suspect there might be congestion problems. Which component executes the congestion control algorithm in a Spectrum-X environment?

- A. Spectrum-4 switches
- **B. BlueField-3 SuperNICs**
- C. NVIDIA DOCA software
- D. NVIDIA NetQ

Answer: B

Explanation:

In the Spectrum-X architecture, BlueField-3 SuperNICs are responsible for executing the congestion control algorithm. They handle millions of congestion control events per second with microsecond reaction latency, applying fine-grained rate decisions to manage data flow effectively. This ensures optimal network performance by preventing congestion and packet loss.

Reference: NVIDIA Spectrum-X Networking Platform

NEW QUESTION # 71

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

Answer: D

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 # 72

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

Answer: C

NEW QUESTION # 73

Which of the following options correctly describes the difference between UFM Telemetry, UFM Enterprise, and UFM Cyber AI?

- A. UFM Telemetry detects and mitigates network security threats. UFM Enterprise provides real-time monitoring and analysis of network performance, and UFM Cyber AI focuses on network management and optimization.
- B. UFM Telemetry focuses on network management and optimization, UFM Enterprise detects and mitigates network security threats, and UFM Cyber AI provides real-time monitoring and analysis of network performance.
- C. UFM Telemetry provides real-time monitoring and analysis of network performance. UFM Enterprise detects and mitigates network security threats, and UFM Cyber AI focuses on network management and optimization.
- **D. UFM Telemetry provides real-time monitoring and analysis of network performance, UFM Enterprise focuses on network management and optimization, and UFM Cyber AI detects and mitigates network security threats.**

Answer: D

Explanation:

* UFM Telemetry: Provides real-time monitoring and analysis of network performance, collecting data such as port counters and cable information to assess the health and efficiency of the network.

* UFM Enterprise: Focuses on comprehensive network management and optimization, enabling administrators to monitor, operate, and optimize InfiniBand scale-out computing environments effectively.

* UFM Cyber AI: Detects and mitigates network security threats by analyzing telemetry data to identify anomalies and potential security issues within the network infrastructure.

Reference Extracts from NVIDIA Documentation:

- * "UFM Telemetry provides real-time monitoring and analysis of network performance."
- * "UFM Enterprise is a powerful platform for managing InfiniBand scale-out computing environments."
- * "UFM Cyber-AI enhances the benefits of UFM Telemetry and UFM Enterprise services by detecting and mitigating network security threats."

NEW QUESTION # 74

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 # 75

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