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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	• 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	• 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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q42-Q47):

NEW QUESTION # 42
Which of the following scenarios would the Network Traffic Map in UFM be least useful for troubleshooting?

- A. When investigating reports of network congestion or latency problems.
- B. When optimizing job placement and workload distribution across the cluster.
- C. After making changes to network configuration.
- D. When troubleshooting a single node's hardware failure.

Answer: D

Explanation:
The Network Traffic Map in NVIDIA's Unified Fabric Manager (UFM) provides a visual representation of the network topology and traffic flows, which is particularly useful for identifying congestion points, verifying network configurations, and optimizing workload distribution.
However, when troubleshooting a single node's hardware failure, the Network Traffic Map is less effective, as it focuses on network-level issues rather than individual hardware components.

NEW QUESTION # 43
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. SN5600, BlueField-3 SuperNIC, DDR, TCP traffic
- B. SN4700, BlueField-3 SuperNIC, DDR, RoCE traffic
- C. SN5600, BlueField-3 SuperNIC, DDR, RoCE traffic

Answer: C

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 # 44

What is the total throughput of the SN5600 Spectrum-X switch?

- A. 51.2 terabits per second
- B. 102.4 gigabits per second
- C. 12.8 petabits per second
- D. 25.6 terabits per second

Answer: A

Explanation:
The SN5600 smart-leaf/spine/super-spine switch offers 64 ports of 800GbE in a dense 2U form factor. The SN5600 offers diverse connectivity in combinations of 1 to 800GbE and boasts an industry-leading total throughput of 51.2Tb/s.
Reference:NVIDIA Spectrum SN5600 Ethernet Switch - Bluum

NEW QUESTION # 45

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

Answer: B

Explanation:
TheNVIDIA Network Operatoris designed to simplify and automate the deployment and management of networking components in Kubernetes clusters, particularly those utilizing NVIDIA Spectrum-X switches. It manages the installation and configuration of necessary drivers, plugins, and other networking resources to enable features like RDMA and GPUDirect RDMA, which are essential for high-performance AI workloads.
By leveraging Kubernetes Custom Resource Definitions (CRDs) and the Operator Framework, the Network Operator ensures that networking components are consistently and correctly configured across the cluster, reducing manual intervention and potential configuration errors.
Reference:NVIDIA Network Operator Documentation

NEW QUESTION # 46

What is the basic functionality of an IB Router?

- A. Connecting Ethernet switches to an InfiniBand fabric
- B. Connecting SAN to an InfiniBand fabric
- C. Connecting two (or more) InfiniBand fabrics
- D. Connecting NVLink domains to an InfiniBand fabric

Answer: C

Explanation:
AnInfiniBand (IB) Routerconnects two or moreInfiniBand subnets, making it possible for nodes in different subnets to communicate throughroute-managed communication.
From the officialNVIDIA InfiniBand Routers Documentation:
"An InfiniBand router provides connectivity between two or more InfiniBand subnets, enabling communication between hosts that are not on the same subnet while preserving isolation and scalability."
* Ensures fabric scalability by allowing subnet segmentation.
* Uses LID routing across subnet managers (SMs).
* Essential in large clusters with thousands of nodes.
Incorrect Options:
* AandBare incorrect: InfiniBand does not connect directly to Ethernet or SANs without a gateway.
* Cis unrelated: NVLink is a GPU interconnect, not tied to InfiniBand routers.

Reference: NVIDIA InfiniBand Routers Guide

NEW QUESTION # 47

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