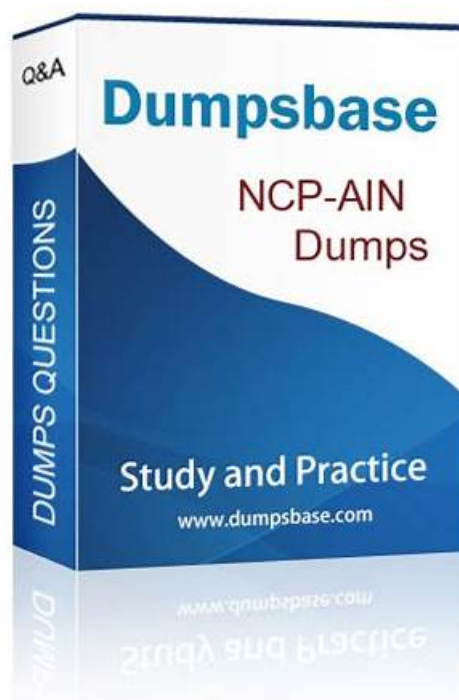


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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> • 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 (Q42-Q47):

NEW QUESTION # 42

You are implementing a multi-tenant environment on your Spectrum-X switches for different departments in your organization. You need to ensure that each department's network traffic is isolated and secure.

Which Spectrum-X security feature would be most effective in creating isolated network environments for each department?

- A. Set UP Port Mirroring
- **B. Configure Virtual Routing and Forwarding (VRF)**
- C. Enable Link Layer Discovery Protocol (LLDP)
- D. Implement Access Control Lists (ACLs)

Answer: B

Explanation:

Virtual Routing and Forwarding (VRF) is the most effective method to achieve network segmentation and isolation in a multi-tenant environment.

From the NVIDIA Cumulus Linux Documentation - VRF Section:

"VRF allows multiple instances of routing tables to coexist within the same switch, effectively isolating traffic between tenants or departments." Each department can:

- * Operate in its own VRF domain
- * Have independent routing tables
- * Maintain strict separation of Layer 3 paths

Incorrect Options:

- * A (Port Mirroring)- Used for traffic monitoring, not isolation.
- * C (ACLs)- Useful for fine-grained filtering, but not scalable tenant isolation.
- * D (LLDP)- Used for neighbor discovery, not security or isolation.

Reference: Cumulus Linux - VRF Support on Spectrum Switches

NEW QUESTION # 43

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:

* NVLink provides high-speed, low-latency communication between GPUs within the same node.

* InfiniBand offers 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 # 44

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

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

Answer: B

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 # 45

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

Answer: D

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 # 46

You are troubleshooting a Spectrum-X network and need to validate the fabric configuration. Which feature of Spectrum-X allows for automated fabric validation?

- A. NVIDIA DOCA
- **B. NVIDIA NetQ**
- C. RoCE Performance Isolation
- D. RoCE Adaptive Routing

Answer: B

Explanation:

NVIDIA NetQ is a network operations tool that provides real-time visibility and automated validation of the network fabric. It helps in identifying misconfigurations, monitoring network health, and ensuring that the fabric meets the required specifications for AI workloads.

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