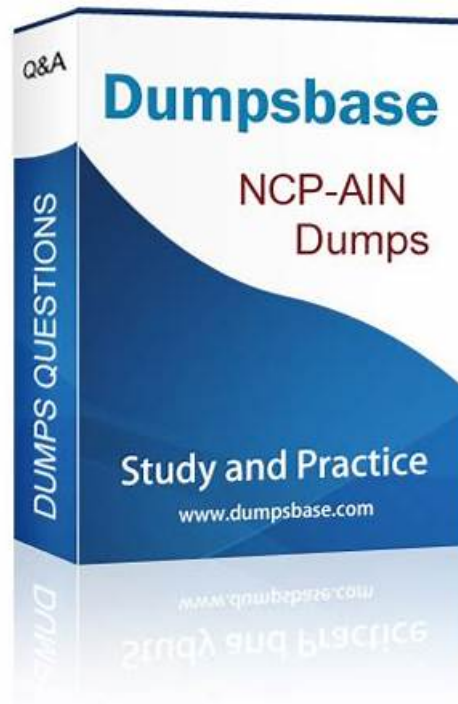


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NVIDIA NCP-AIN Exam Syllabus Topics:

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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"> 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	<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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q16-Q21):

NEW QUESTION # 16

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. Enable Link Layer Discovery Protocol (LLDP)
- C. Configure Virtual Routing and Forwarding (VRF)
- D. Implement Access Control Lists (ACLs)

Answer: C

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 # 17

You are troubleshooting a Spectrum-X network and need to ensure that the network remains operational in case of a link failure.

Which feature of Spectrum-X ensures that the fabric continues to deliver high performance even if there is a link failure?

- A. RoCE Congestion Control
- B. RoCE Performance Isolation
- C. NVIDIA NetQ
- D. RoCE Adaptive Routing

Answer: D

Explanation:

RoCE Adaptive Routing is a key feature of NVIDIA Spectrum-X that ensures high performance and resiliency in the network, even in the event of a link failure. This technology dynamically reroutes traffic to the least congested and operational paths, effectively mitigating the impact of link failures. By continuously evaluating the network's egress queue loads and receiving status notifications from neighboring switches, Spectrum-X can adaptively select optimal paths for data transmission. This ensures that the network maintains high throughput and low latency, crucial for AI workloads, even when certain links are down.

Reference Extracts from NVIDIA Documentation:

- * "Spectrum-X employs global adaptive routing to quickly reroute traffic during link failures, minimizing disruptions and preserving optimal storage fabric utilization."
- * "RoCE Adaptive Routing avoids congestion by dynamically routing large AI flows away from congestion points. This approach improves network resource utilization, leaf/spine efficiency, and performance."

NEW QUESTION # 18

How does Spectrum-X achieve network isolation for multiple tenants?

- A. By assigning unique IP address ranges to each tenant.
- B. By implementing physical network segmentation.
- C. Using manual configuration of access control lists (ACLs).
- **D. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRR**

Answer: D

Explanation:

Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network segment, ensuring that traffic is isolated and secure between tenants.

Reference Extracts from NVIDIA Documentation:

- * "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

NEW QUESTION # 19

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 focuses on network management and optimization, and UFM Cyber AI detects and mitigates network security threats.**
- D. 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.

Answer: C

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 # 20

You are troubleshooting an InfiniBand network issue and need to check the status of the InfiniBand interfaces. Which command should you use to display the state, physical state, and link layer of InfiniBand interfaces?

- A. `ibv_devices -c mlx5_0`
- B. `sudo ibnodes -C mlx5_0`
- C. `ibstat -d mlx5_X`
- D. `cat /proc/net/ib/device`

Answer: C

Explanation:

The `ibstat` command is utilized to display the operational status of InfiniBand Host Channel Adapters (HCAs).

It provides detailed information, including the state (e.g., Active, Down), physical state (e.g., LinkUp, Polling), and link layer (e.g., InfiniBand, Ethernet) of each port on the HCA. This information is crucial for diagnosing connectivity issues and ensuring that the InfiniBand interfaces are functioning correctly.

Reference Extracts from NVIDIA Documentation:

* "The `ibstat` command displays the status of the host channel adapters (HCAs) in your InfiniBand fabric.

The status includes the HCAs' state, physical state, and link layer."

* "For proper operation, you are looking for 'State: Active' and 'Physical State: LinkUp'."

NEW QUESTION # 21

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