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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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">• 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.

Exam NCP-AIN Exercise - Reliable NCP-AIN Test Tutorial

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NVIDIA-Certified Professional AI Networking Sample Questions (Q59-Q64):

NEW QUESTION # 59

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 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.**
- 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 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.

Answer: B

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 # 60

In Cumulus Linux, which technology enables the ability to provide active-active redundancy to servers, without the need for direct inter-switch links?

- **A. EVPN Multi-homing**
- B. VSS
- C. MLAG

Answer: A

Explanation:

EVPN Multi-homing enables active-active redundancy without inter-switch links by using overlay routing over VXLAN and distributed control plane using BGP EVPN.

From the official NVIDIA Cumulus Linux EVPN Multihoming Documentation:

"EVPN multihoming allows multiple Top-of-Rack (ToR) switches to connect to the same server while maintaining full layer-2 redundancy without the need for inter-switch links or traditional MLAG configuration." Key benefits:

* Simplified topology (no ISL/peer-link needed)

* BGP-based control plane

* Fast convergence

* Active-active links per host NIC

Incorrect Options:

* MLAG requires ISL between switches and peer-link configuration.
* VSS (Virtual Switching System) is a Cisco term, not supported in NVIDIA networking.
Reference: Cumulus Linux Docs - EVPN Multihoming

NEW QUESTION # 61

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

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

Answer: C

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 # 62

You suspect there might be connectivity issues in your InfiniBand fabric and need to perform a comprehensive check. Which tool should you use to run a full fabric diagnostic and generate a report?

- A. ibdiagnet
- B. ibnetdiscover
- C. perfquery
- D. taping

Answer: A

Explanation:

The ibdiagnet utility is a fundamental tool for InfiniBand fabric discovery, error detection, and diagnostics. It provides comprehensive reports on the fabric's health, including error reporting, switch and Host Channel Adapter (HCA) configuration dumps, various counters reported by the switches and HCAs, and parameters of devices such as switch fans, power supply units, cables, and PCI lanes. Additionally, ibdiagnet performs validation for Unicast Routing, Adaptive Routing, and Multicast Routing to ensure correctness and a credit- loop-free routing environment.

Reference Extracts from NVIDIA Documentation:

* "The ibdiagnet utility is one of the basic tools for InfiniBand fabric discovery, error detection and diagnostic. The output files of the ibdiagnet include error reporting, switch and HCA configuration dumps, various counters reported by the switches and the HCAs."

* "ibdiagnet also performs Unicast Routing, Adaptive Routing and Multicast Routing validation for correctness and credit-loop free routing."

NEW QUESTION # 63

What is the purpose of configuring NVUE to ignore Linux files?

- A. Reduce NVUE memory utilization to optimize performance.
- B. Improve Cumulus security by reducing the attack surface.
- C. Enable pushing of configuration through Ansible template files.
- D. Enable the persistent manipulation of specific settings using both NVUE and flat-file approaches.

Answer: D

Explanation:

Configuring NVUE to ignore certain underlying Linux files allows administrators to manage specific settings manually or through automation tools like Ansible without NVUE overwriting these configurations. This approach enables the persistent manipulation of

settings using both NVUE and flat-file methods, providing flexibility in network management.

NEW QUESTION # 64

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