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NVIDIA NCP-AIN Exam Overview:

Certification Vendor:	NVIDIA
Exam Name:	NVIDIA-Certified Professional AI Networking (NCP-AIN) Exam
Exam Number:	NCP-AIN
Certificate Validity Period:	2 years
Real Exam Qty:	70-75
Available Languages:	Chinese, English
Exam Format:	Single/multiple select items, Multiple choice questions
Exam Duration:	120 minutes
Passing Score:	Pass/Fail only, no exact score published
Exam Price:	\$400 USD
Related Certifications:	NVIDIA-Certified Professional AI Infrastructure (NCP-AII) NVIDIA-Certified Professional AI Operations (NCP-AIO)
Recommended Training:	NVIDIA Spectrum Networking Training NVIDIA InfiniBand Essentials
Exam Registration:	NVIDIA Certification Portal
Sample Questions:	NVIDIA NCP-AIN Sample Questions
Exam Way:	Online remote proctored exam

Pre Condition:	2–3 years of data center operation experience with NVIDIA hardware; ability to deploy and manage AI networking infrastructure supporting AI workloads
Official Syllabus URL:	https://www.nvidia.com/en-us/learn/certification/ai-networking-professional/

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	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	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	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 (Q45-Q50):

NEW QUESTION # 45

You are automating the deployment of a Spectrum-X network using Ansible. You need to ensure that the playbooks can handle different switch models and configurations efficiently.

Which feature of the NVIDIA NVUE Collection helps simplify the automation by providing pre-built roles for common network configurations?

- A. Collection modules
- B. Collection plugins
- C. Collection libraries
- D. Collection roles

Answer: D

Explanation:

The NVIDIA NVUE Collection for Ansible includes pre-built roles designed to streamline automation tasks across various switch models and configurations. These roles encapsulate common network configurations, allowing for efficient and consistent deployment.

By utilizing these roles, network administrators can:

- * Apply standardized configurations across different devices.
- * Reduce the complexity of playbooks by reusing modular components.

* Ensure consistency and compliance with organizational policies.

This approach aligns with Ansible best practices, promoting maintainability and scalability in network automation.

Reference: NVIDIA NVUE Collection Documentation - Ansible Roles

NEW QUESTION # 46

A high-performance InfiniBand fabric requires a routing engine that maximizes throughput and network utilization while reducing congestion. Which option below is the best routing engine for InfiniBand?

- **A. Adaptive Routing**
- B. Random Routing
- C. Round Robin Routing
- D. Shortest Path Routing

Answer: A

Explanation:

Adaptive Routing in InfiniBand networks dynamically selects the optimal path for data packets based on current network conditions, such as congestion levels and link utilization. This approach ensures that traffic is evenly distributed across the network, preventing bottlenecks and maximizing overall throughput.

By continuously monitoring the network and adjusting routes in real-time, Adaptive Routing enhances performance and reliability, making it the preferred choice for high-performance computing environments where consistent low latency and high bandwidth are critical.

NEW QUESTION # 47

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

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.

NEW QUESTION # 48

Which of the following commands would you use to assign the IP address 20.11.12.13 to the management interface in SONiC?

- A. `config ip add eth0 20.11.12.13/24 20.11.12.254`
- B. `interface mgmt0 vrf mgmt ip address 20.11.12.13 20.11.12.254`
- C. `nv set interface mgmt ip 20.11.12.13 20.11.12.254`
- **D. `sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254`**

Answer: D

Explanation:

In SONiC, to assign a static IP address to the management interface, the correct command is:

```
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
```

This command sets the IP address and the default gateway for the management interface.

SONiC (Software for Open Networking in the Cloud) is an open-source network operating system used on NVIDIA Spectrum-X platforms, including Spectrum-4 switches, to provide a flexible and scalable networking solution for AI and HPC data centers.

Configuring the management interface in SONiC is a critical task for enabling remote access and network management. The question asks for the correct command to assign the IP address 20.11.12.13 to the management interface, typically identified as eth0 in SONiC, as it is the default management interface for out-of-band management. Based on NVIDIA's official SONiC documentation,

the correct command to assign an IP address to the management interface involves using the config command-line utility, which is part of SONiC's configuration framework. The command `sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254` is the standard method to configure the IP address and gateway for the eth0 management interface. This command specifies the interface (eth0), the IP address with its subnet mask (20.11.12.13/24), and the default gateway (20.11.12.254), ensuring proper network connectivity.

NEW QUESTION # 49

You have implemented adaptive routing in your Spectrum-X network to optimize AI workload performance. You need to verify the effectiveness of this configuration and monitor its impact on network congestion. Which tool would be most appropriate for monitoring and analyzing the adaptive routing performance in your Spectrum-X environment?

- A. CloudAI Benchmark
- B. MLNXOS
- C. Ansible
- **D. NetQ**

Answer: D

Explanation:

NVIDIA NetQ is a comprehensive network operations tool designed to provide real-time visibility into the health and performance of NVIDIA networking environments, including Spectrum-X. It offers detailed telemetry and analytics, allowing administrators to monitor adaptive routing behaviors, detect congestion, and analyze traffic patterns. By leveraging NetQ, you can ensure that adaptive routing is functioning as intended and that the network is optimized for AI workloads.

NEW QUESTION # 50

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