

NVIDIA NCP-AIN Web-Based Practice Exam Features



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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q41-Q46):

NEW QUESTION # 41

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

Answer: A

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 # 42

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

Answer: D

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 # 43

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

- A. Improve Cumulus security by reducing the attack surface.
- B. Enable pushing of configuration through Ansible template files.
- C. Reduce NVUE memory utilization to optimize performance.

- **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 # 44

Which component of the Spectrum-X platform is responsible for reordering out-of-order packets?

- A. DOCA software
- B. Spectrum-4 switch
- C. NetQ
- **D. SuperNIC**

Answer: D

Explanation:

Within the Spectrum-X platform, the NVIDIA BlueField-3 SuperNIC is responsible for reordering out-of-order packets. When RoCE adaptive routing is employed, packets may arrive at their destination out of order due to dynamic path selection. The BlueField-3 SuperNIC handles this by reassembling the packets in the correct order at the transport layer, ensuring that the application receives data seamlessly.

Reference Extracts from NVIDIA Documentation:

* "As different packets of the same flow travel through different paths of the network, they may arrive out of order to their destination. At the RoCE transport layer, the BlueField-3 DPU takes care of the out-of-order packets and forwards the data to the application in order."

* "The BlueField-3 SuperNIC offers adaptive routing, out-of-order packet handling and optimized congestion control." The NVIDIA Spectrum-X networking platform is an Ethernet-based solution optimized for AI workloads, combining Spectrum-4 switches, BlueField-3 SuperNICs, and software like DOCA and NetQ to deliver high performance, low latency, and efficient data transfer. A key feature of Spectrum-X is its adaptive routing, which dynamically selects the least-congested paths for packet transmission to maximize bandwidth and minimize latency. However, this per-packet load balancing can result in packets arriving out of order at the destination, necessitating a mechanism to reorder them for seamless application performance. The question asks which Spectrum-X component is responsible for reordering these out-of-order packets.

According to NVIDIA's official documentation, the BlueField-3 SuperNIC is the component responsible for reordering out-of-order packets in the Spectrum-X platform. The SuperNIC, a network accelerator designed for hyperscale AI workloads, handles packet reordering at the RDMA over Converged Ethernet (RoCE) transport layer. It uses its processing capabilities to transparently reorder packets and place them in the correct sequence in the host memory, ensuring that adaptive routing's out-of-order delivery is invisible to the application. This is critical for maintaining predictable performance in AI workloads, particularly for GPU-to-GPU communication in Spectrum-X networks.

Exact Extract from NVIDIA Documentation:

"The Spectrum-4 switches are responsible for selecting the least-congested port for data transmission on a per-packet basis. As different packets of the same flow travel through different paths of the network, they may arrive out of order to their destination. The BlueField-3 SuperNIC transforms any out-of-order data at the RoCE transport layer, transparently delivering in-order data to the application."

-NVIDIA Technical Blog: Turbocharging Generative AI Workloads with NVIDIA Spectrum-X Networking Platform This extract confirms that option A, the SuperNIC (specifically the BlueField-3 SuperNIC), is the correct answer. The SuperNIC's role in reordering packets ensures that the adaptive routing implemented by Spectrum-4 switches does not compromise application performance, maintaining high effective bandwidth and low tail latency for AI workloads.

NEW QUESTION # 45

What are two methods for accessing the operating system on a BlueField DPU?

Pick the 2 correct responses below

- A. Via the networking interfaces (data ports) in NIC mode
- **B. Via the rshim interface over the PCIe bus**
- C. Via the Redfish API
- **D. Via rshim over a USB connection on the host**

Answer: B,D

Explanation:

Accessing the BlueField DPU Operating System (OS) is possible through rshim, either over PCIe or USB, and via SSH through the OOB interface when in DPU mode.

From the NVIDIA BlueField Software Documentation:

"You can access the BlueField OS through the rshim interface. The rshim module enables host-to-DPU communication either via PCIe (default) or USB."

* B. rshim over PCIe: Default when BlueField is installed in a host.

* D. rshim over USB: Useful for provisioning or systems without PCIe drivers.

Incorrect Options:

* A (NIC mode): BlueField acts as a transparent NIC; OS access is not available to the host.

* C (Redfish): Redfish is for out-of-band management, not direct OS-level access.

Reference: Accessing BlueField OS - rshim via PCIe and USB Methods

NEW QUESTION # 46

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