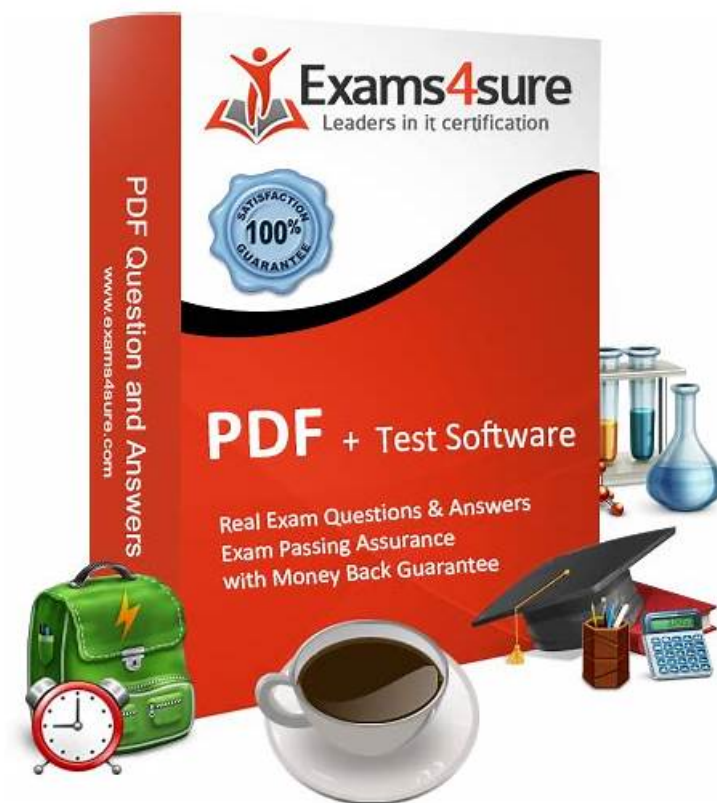


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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 (Q29-Q34):

NEW QUESTION # 29

What are the prerequisites for performing Flow Analysis with NetQ?

- A. Cumulus 4.x and later / Spectrum-2 and later / LCM enabled
- B. Cumulus 5.x and later / Spectrum-3 and later / On-premises deployment
- **C. Cumulus 5.x and later / Spectrum-2 and later / LCM enabled**
- D. Cumulus 5.x and later / Spectrum-2 and later / On-premises deployment

Answer: C

Explanation:

To perform Flow Analysis with NetQ, the following prerequisites must be met:

- * Cumulus Linux Version: NetQ Flow Analysis requires Cumulus Linux 5.x or later.
- * Switch Hardware: The feature is supported on Spectrum-2 and later switch models.
- * Lifecycle Management (LCM): LCM must be enabled to utilize Flow Analysis capabilities.

These requirements ensure compatibility and proper functioning of the Flow Analysis feature within NetQ.

Reference: NVIDIA NetQ Documentation - Flow Analysis Prerequisites

NEW QUESTION # 30

You are using NVIDIA Air to simulate a Spectrum-X network for AI workloads. You want to ensure that your network configurations are optimal before deployment.

Which NVIDIA tool can be integrated with Air to validate network configurations in the digital twin environment?

- **A. NetQ**
- B. GPU Cloud
- C. DOCA
- D. Spectrum-X Manager

Answer: A

Explanation:

NVIDIA NetQ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real-time. It delivers actionable insights and operational intelligence about the health of data center networks—from the container or host all the way to the switch and port—enabling a NetDevOps approach.

NetQ can be used as the functional test platform for the network CI/CD in conjunction with NVIDIA Air.

Customers benefit from testing the new configuration with NetQ in the NVIDIA Air environment ("digital twin") and fix errors before deploying to their production.

NEW QUESTION # 31

You are troubleshooting connectivity issues in your InfiniBand network and need to test basic connectivity between nodes. Which command should you use to test basic connectivity between InfiniBand nodes?

- A. ibnetdiscover
- B. traceroute
- C. ibping
- D. ping

Answer: C

Explanation:

The tool specifically designed for testing InfiniBand connectivity is **ibping**. It functions similarly to the traditional ping utility but is optimized for InfiniBand fabrics.

From the NVIDIA InfiniBand Diagnostic Utilities Documentation:

"ibping tests the connectivity of InfiniBand nodes by sending management datagrams (MADs) and verifying the response from the destination LID or GUID."

- * Tests basic node-to-node reachability
- * Supports testing via LID, GUID, or port number
- * Helps verify subnet manager routing and fabric health

Incorrect Options:

- * ping and traceroute are IP-based, not fabric-aware.
- * ibnetdiscover maps topology but doesn't test live connectivity.

Reference: InfiniBand Diagnostic Tools - ibping

NEW QUESTION # 32

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

Answer: C

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 # 33

In an AI cluster using NVIDIA GPUs, which configuration parameter in the NicClusterPolicy custom resource is crucial for enabling high-speed GPU-to-GPU communication across nodes?

- A. Secondary Network
- B. NV IPAM
- C. RDMA Shared Device Plugin
- D. OFED Driver

Answer: C

Explanation:

The RDMA Shared Device Plugin is a critical component in the NicClusterPolicy custom resource for enabling Remote Direct Memory Access (RDMA) capabilities in Kubernetes clusters. RDMA allows for high- throughput, low-latency networking, which is essential for efficient GPU-to-GPU communication across nodes in AI workloads. By deploying the RDMA Shared Device Plugin, the cluster can leverage RDMA- enabled network interfaces, facilitating direct memory access between GPUs without involving the CPU, thus optimizing performance.

Reference Extracts from NVIDIA Documentation:

* "RDMA Shared Device Plugin: Deploy RDMA Shared device plugin. This plugin enables RDMA capabilities in the Kubernetes cluster, allowing high-speed GPU-to-GPU communication across nodes."

* "The RDMA Shared Device Plugin is responsible for advertising RDMA-capable network interfaces to Kubernetes, enabling pods to utilize RDMA for high-performance networking."

NEW QUESTION # 34

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