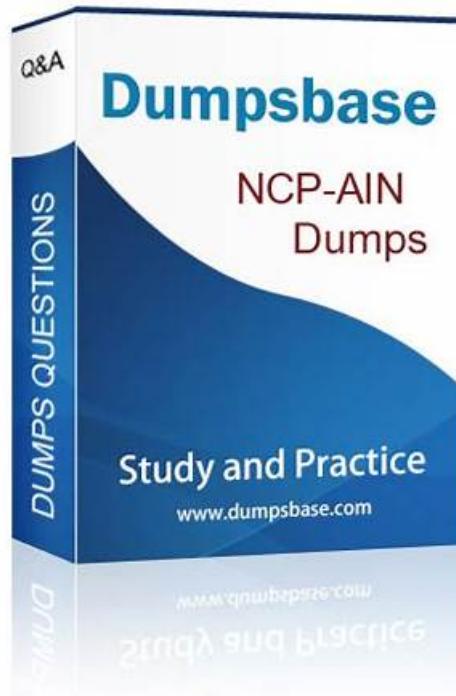


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There are many ways to help you pass NVIDIA certification NCP-AIN exam and selecting a good pathway is a good protection. TestKingIT can provide you a good training tool and high-quality reference information for you to participate in the NVIDIA certification NCP-AIN exam. TestKingIT's practice questions and answers are based on the research of NVIDIA certification NCP-AIN examination Outline. Therefore, the high quality and high authoritative information provided by TestKingIT can definitely do our best to help you pass NVIDIA certification NCP-AIN exam. TestKingIT will continue to update the information about NVIDIA certification NCP-AIN exam to meet your need.

NVIDIA NCP-AIN Exam Syllabus Topics:

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.
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>> NCP-AIN Exam Demo <<

100% Pass 2026 Updated NVIDIA NCP-AIN: NVIDIA-Certified Professional AI Networking Exam Demo

If you are remain an optimistic mind all the time when you are preparing for the NCP-AIN exam, we deeply believe that it will be very easy for you to successfully pass the NCP-AIN exam, and get the related NCP-AIN certification in the near future. Of course, we also know that how to keep an optimistic mind is a question that is very difficult for a lot of people to answer. As is known to us, where there is a will, there is a way. We believe you will get wonderful results with the help of our NCP-AIN Exam Questions as we have been professional in this field.

NVIDIA-Certified Professional AI Networking Sample Questions (Q14-Q19):

NEW QUESTION # 14

What are the prerequisites for performing Flow Analysis with NetQ?

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

Answer: A

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 # 15

How is congestion evaluated in an NVIDIA Spectrum-X system?

- A. By measuring the number of connected devices in the network.
- B. By monitoring the CPU and power usage of network devices.
- C. By analyzing the egress queue loads ensuring all ports are well-balanced.
- D. By assessing the physical distance between network devices.

Answer: C

Explanation:

In NVIDIA Spectrum-X, congestion is evaluated based on egress queue loads. Spectrum-4 switches assess the load on each egress queue and select the port with the minimal load for packet transmission. This approach ensures that all ports are well-balanced, optimizing network performance and minimizing congestion.

NEW QUESTION # 16

You are deploying a Kubernetes cluster for AI workloads using NVIDIA Spectrum-X switches. You need to automate the

deployment and management of networking components in this environment.

Which NVIDIA tool is specifically designed to automate the deployment and management of networking components in a Kubernetes cluster with Spectrum-X switches?

- A. Container Runtime
- B. Mellanox OFED
- **C. Network Operator**
- D. GPU Operator

Answer: C

Explanation:

The NVIDIA Network Operator is designed to simplify and automate the deployment and management of networking components in Kubernetes clusters, particularly those utilizing NVIDIA Spectrum-X switches. It manages the installation and configuration of necessary drivers, plugins, and other networking resources to enable features like RDMA and GPUDirect RDMA, which are essential for high-performance AI workloads.

By leveraging Kubernetes Custom Resource Definitions (CRDs) and the Operator Framework, the Network Operator ensures that networking components are consistently and correctly configured across the cluster, reducing manual intervention and potential configuration errors.

Reference: NVIDIA Network Operator Documentation

NEW QUESTION # 17

A leading AI research center is upgrading its infrastructure to support large language model projects.

The team is debating whether to implement a dedicated storage fabric for their AI workloads.

Which of the following best explains why a dedicated storage fabric is crucial for this AI network architecture?

Pick the 2 correct responses below

- A. To ensure data security and isolation from other network traffic.
- **B. To enable parallel data access and improve storage performance for distributed AI workloads.**
- C. To reduce the overall cost of the storage infrastructure.
- **D. To provide high-bandwidth, low-latency data access that prevents I/O bottlenecks during AI model training.**

Answer: B,D

Explanation:

Modern AI training (especially with LLMs) requires extremely high-speed, parallel access to large datasets. A dedicated storage fabric separates data I/O traffic from the training compute path and avoids contention.

From NVIDIA DGX Infrastructure Reference Architectures:

"Dedicated storage networks eliminate I/O bottlenecks by providing low-latency, high-bandwidth access to distributed storage for large-scale training jobs."

"Parallel access to datasets is key for performance, especially in multi-node, multi-GPU AI clusters." Security (B) is important, but not the core reason for a storage fabric.

Cost (D) is typically increased, not reduced, with dedicated fabrics.

Reference: NVIDIA BasePOD/AI Infrastructure Deployment Guidelines - Storage Section

NEW QUESTION # 18

You are designing a new AI data center for a research institution that requires high-performance computing for large-scale deep learning models. The institution wants to leverage NVIDIA's reference architectures for optimal performance.

Which NVIDIA reference architecture would be most suitable for this high-performance AI research environment?

- A. NVIDIA Base Command Platform
- **B. NVIDIA DGX SuperPOD**
- C. NVIDIA DGX Cloud
- D. NVIDIA LaunchPad

Answer: B

Explanation:

The NVIDIA DGX SuperPOD is a turnkey AI supercomputing infrastructure designed for large-scale deep learning and high-

performance computing workloads. It integrates multiple DGX systems with high-speed networking and storage solutions, providing a scalable and efficient platform for AI research institutions. The architecture supports rapid deployment and is optimized for training complex models, making it the ideal choice for environments demanding top-tier AI performance.

Reference:DGX SuperPOD Architecture - NVIDIA Docs

NEW QUESTION # 19

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