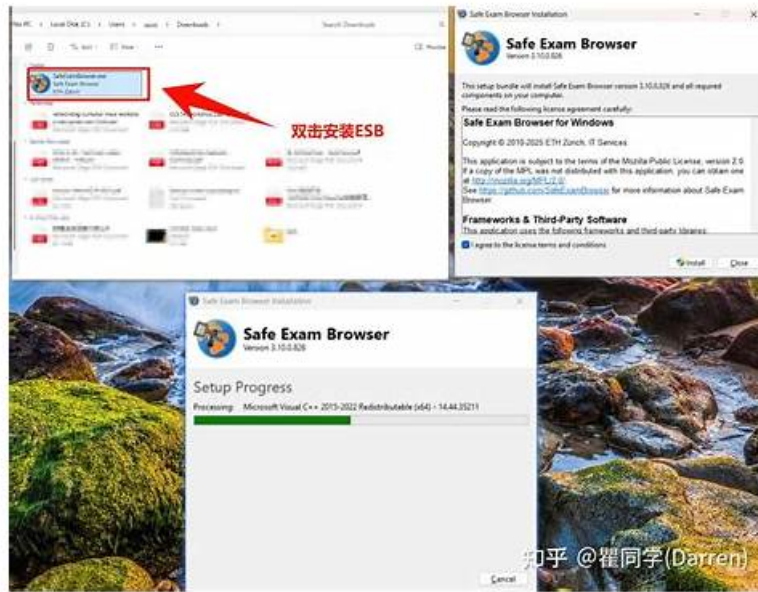


NCP-AIN참고덤프, NCP-AIN합격보장가능공부



참고: DumpTOP에서 Google Drive로 공유하는 무료 2026 NVIDIA NCP-AIN 시험 문제집이 있습니다:
<https://drive.google.com/open?id=1bS2Qs5xl7OXWkoiDVkMvOEF3nWwE-ngV>

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NVIDIA NCP-AIN 시험요강:

주제	소개
주제 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.
주제 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.
주제 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.

>> NCP-AIN참고덤프 <<

NCP-AIN합격보장 가능 공부 - NCP-AIN퍼펙트 덤프공부자료

DumpTOP는 여러분의 요구를 만족시켜드리는 사이트입니다. 많은 분들이 우리사이트의 it인증덤프를 사용함으로 관련it시험을 안전하게 패스를 하였습니다. 이니 우리 DumpTOP사이트의 단골이 되었죠. DumpTOP에서는 최신의 NVIDIA NCP-AIN자료를 제공하며 여러분의NVIDIA NCP-AIN인증시험에 많은 도움이 될 것입니다.

최신 NVIDIA-Certified Professional NCP-AIN 무료샘플문제 (Q30-Q35):

질문 # 30

What is the basic functionality of an IB Router?

- A. Connecting two (or more) InfiniBand fabrics
- B. Connecting SAN to an InfiniBand fabric
- C. Connecting NVLink domains to an InfiniBand fabric
- D. Connecting Ethernet switches to an InfiniBand fabric

정답: A

설명:

An InfiniBand (IB) Router connects two or more InfiniBand subnets, making it possible for nodes in different subnets to communicate through route-managed communication.

From the official NVIDIA InfiniBand Routers Documentation:

"An InfiniBand router provides connectivity between two or more InfiniBand subnets, enabling communication between hosts that are not on the same subnet while preserving isolation and scalability."

- * Ensures fabric scalability by allowing subnet segmentation.
- * Uses LID routing across subnet managers (SMs).
- * Essential in large clusters with thousands of nodes.

Incorrect Options:

- * A and B are incorrect: InfiniBand does not connect directly to Ethernet or SANs without a gateway.
- * C is unrelated: NVLink is a GPU interconnect, not tied to InfiniBand routers.

Reference: NVIDIA InfiniBand Routers Guide

질문 # 31

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

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

정답: D

설명:

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.

질문 # 32

A fabric administrator added new servers to a 40-port edge switch. The administrator now needs to gather and map the newly added ports' LIDs and LINK SPEED. Which of the following commands can be used for that purpose?

- A. ibswitches
- B. ibnetdiscover
- C. ibhosts
- D. ib_check_routes

정답: B

설명:

The correct utility is `ibnetdiscover`.

From the official NVIDIA InfiniBand Utilities Guide:

"`ibnetdiscover` scans the fabric and returns a topology of all switches and end nodes, including their GUIDs, LIDs, port numbers, and link speeds." It generates a fabric map with node-to-port relationships and shows:

- * GUIDs
- * LIDs (Local IDs)

* Link speeds and widths

* Switch-to-host connections

This is essential for network topology validation and mapping physical port additions.

Incorrect Options:

* `ib_check_routes`- for routing table diagnostics.

* `ibhosts`- shows host information but not switch-level port mapping.

* `ibswitches`- shows switch info, but lacks port-level LID/link speed mapping.

Reference: NVIDIA InfiniBand Tools - `ibnetdiscover` Utility

질문 # 33

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 roles**
- C. Collection libraries
- D. Collection plugins

정답: B

설명:

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

질문 # 34

As the network administrator for a large-scale AI research cluster, you are responsible for ensuring seamless data flow across an InfiniBand east-west fabric that interconnects hundreds of compute nodes.

Which tool would you use to trace and discover the network paths between nodes on this InfiniBand east-west fabric?

- **A. `ibnetdiscover`**
- B. `tracert`
- C. `ibpathverify`
- D. NetQ

정답: A

설명:

The `ibnetdiscover` utility is used to perform InfiniBand subnet discovery and outputs a human-readable topology file. GUIDs, node types, and port numbers are displayed, as well as port LIDs and node descriptions.

All nodes and links are displayed, providing a full topology. This utility can also be used to list the current connected nodes. The output is printed to the standard output unless a topology file is specified.

InfiniBand is a high-performance, low-latency interconnect technology used in AI and HPC data centers, particularly for east-west traffic between compute nodes in large-scale fabrics. Ensuring seamless data flow requires tools to troubleshoot and monitor the network, including the ability to trace and discover network paths between nodes. The question asks for the specific tool used to trace and discover paths in an InfiniBand fabric, which is a key task in InfiniBand troubleshooting.

According to NVIDIA's official InfiniBand documentation, the `ibnetdiscover` tool is designed to discover and map the topology of an InfiniBand fabric, including the paths between nodes. It scans the fabric, queries the subnet manager, and generates a topology map that details the connections between switches, Host Channel Adapters (HCAs), and other devices. This tool is essential for verifying connectivity, identifying routing paths, and troubleshooting issues like misconfigured routes or link failures in large-scale InfiniBand fabrics.

Exact Extract from NVIDIA Documentation:

"The ibnetdiscover tool is used to discover the InfiniBand fabric topology and generate a map of the network.

It queries the subnet manager to retrieve information about all nodes, switches, and links in the fabric, providing a detailed view of the paths between nodes. This tool is critical for troubleshooting connectivity issues and ensuring proper routing in InfiniBand networks."

-NVIDIA InfiniBand Networking Guide

This extract confirms that ibnetdiscover is the correct tool for discovering network paths in an InfiniBand east- west fabric. It provides a comprehensive view of the fabric's topology, enabling administrators to trace paths between compute nodes and ensure seamless data flow.

Reference:InfiniBand Fabric Utilities - NVIDIA Docs

질문 # 35

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DumpTOP의NVIDIA NCP-AIN 인증시험덤프는 자주 업데이트 되고, 오래 되고 더 이상 사용 하지 않는 문제들은 바로 삭제해버리며 새로운 최신 문제들을 추가 합니다. 이는 응시자가 확실하고도 빠르게NVIDIA NCP-AIN덤프를 마스터하고NVIDIA NCP-AIN시험을 패스할수 있도록 하는 또 하나의 보장입니다. 매력만점NVIDIA NCP-AIN덤프 강력 추천합니다.

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