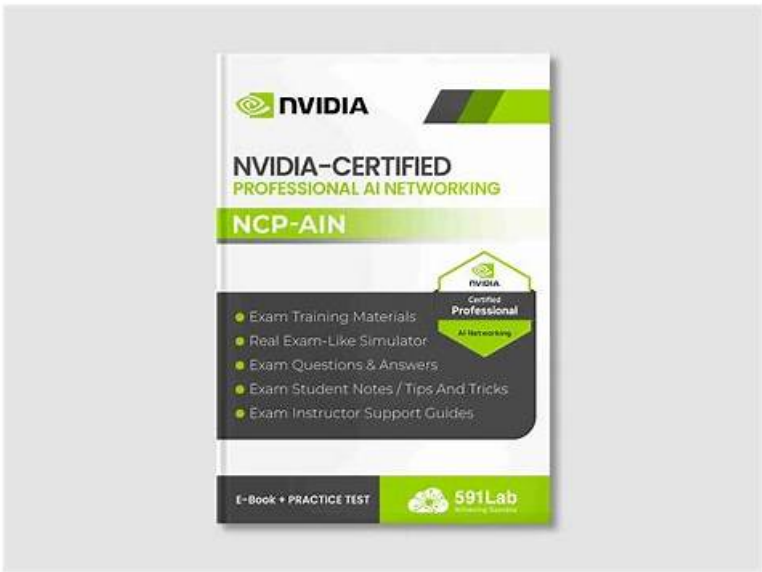


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P.S. KaoGuTi在Google Drive上分享了免費的2026 NVIDIA NCP-AIN考試題庫：<https://drive.google.com/open?id=1E3N5yZVLHHhAdP5te0lk12GF24DxR3dW>

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>> NCP-AIN參考資料 <<

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NVIDIA NCP-AIN 考試大綱：

主題	簡介
主題 1	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.

主題 2	• 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.
主題 3	• 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.

最新的 NVIDIA-Certified Professional NCP-AIN 免費考試真題 (Q15-Q20):

問題 #15

A user has requested confirmation that the InfiniBand network is performing optimally and is not limiting the speed of a training run. To verify this, you would like to measure the RDMA throughput rate between two endpoints. Which tool should be used?

- A. ping
- B. ibdiagnet
- C. iperf
- **D. ib_write_bw**

答案: **D**

解題說明:

The `ib_write_bw` tool is part of the Perftest package and is specifically designed to measure the bandwidth of RDMA write operations between two InfiniBand endpoints. It provides accurate assessments of RDMA throughput, which is crucial for verifying the performance of InfiniBand networks in high-performance computing and AI training environments.

Reference: `ib_write_bw` - NVIDIA Enterprise Support Portal

問題 #16

What are the necessary steps to upgrade the MLNX-OS on InfiniBand Switches?

- A. Remove the switches from the switch fabric, fetch the MLNX-OS software image, and use the 'upgrade' command to perform the upgrade.
- **B. Connect to the switches using SSH, fetch the MLNX-OS software image, and use the 'install' command to perform the upgrade.**
- C. Power off the switches, insert the installation media, and power on the switches to start the upgrade process.
- D. Restart the switches, connect to the switches using Telnet, and use the 'update' command to perform the upgrade.

答案: **B**

解題說明:

To upgrade the MLNX-OS on InfiniBand switches, the recommended procedure is as follows:

- * Connect to the switch via SSH: Establish a secure shell connection to the switch using its management IP address.
- * Fetch the MLNX-OS software image: Obtain the appropriate MLNX-OS software image from the official source or repository.
- * Use the 'install' command to perform the upgrade: Execute the 'install' command on the switch to initiate the upgrade process with the fetched software image.

This method ensures a smooth and efficient upgrade without the need for physical intervention or service disruption.

Reference Extracts from NVIDIA Documentation:

* "Click on Systems # MLNX-OS Upgrade. Select the desired upgrade method (e.g. 'Install from local file'). Select your image and click 'Install Image'."

問題 #17

Why is the InfiniBand LRH called a local header?

- A. It provides the LIDs from the local subnet manager.
- **B. It is used for routing traffic between nodes in the local subnet.**
- C. It provides the parameters for each local HCA.
- D. It allows traffic on a local link only.

答案： B

解題說明：

The Local Route Header (LRH) in InfiniBand is termed "local" because it is used exclusively for routing packets within a single subnet. The LRH contains the destination and source Local Identifiers (LIDs), which are unique within a subnet, facilitating efficient routing without the need for global addressing. This design optimizes performance and simplifies routing within localized network segments. InfiniBand is a high-performance, low-latency interconnect technology widely used in AI and HPC data centers, supported by NVIDIA's Quantum InfiniBand switches and adapters. The Local Routing Header (LRH) is a critical component of the InfiniBand packet structure, used to facilitate routing within an InfiniBand fabric. The question asks why the LRH is called a "local header," which relates to its role in the InfiniBand network architecture.

According to NVIDIA's official InfiniBand documentation, the LRH is termed "local" because it contains the addressing information necessary for routing packets between nodes within the same InfiniBand subnet." The LRH includes fields such as the Source Local Identifier (SLID) and Destination Local Identifier (DLID), which are assigned by the subnet manager to identify the source and destination endpoints within the local subnet. These identifiers enable switches to forward packets efficiently within the subnet without requiring global routing information, distinguishing the LRH from the Global Routing Header (GRH), which is used for inter-subnet routing.

Exact Extract from NVIDIA Documentation:

"The Local Routing Header (LRH) is used for routing InfiniBand packets within a single subnet. It contains the Source LID (SLID) and Destination LID (DLID), which are assigned by the subnet manager to identify the source and destination nodes in the local subnet. The LRH is called a 'local header' because it facilitates intra-subnet routing, enabling switches to forward packets based on LID-based forwarding tables."

-NVIDIA InfiniBand Architecture Guide

This extract confirms that option A is the correct answer, as the LRH's primary function is to route traffic between nodes within the local subnet, leveraging LID-based addressing. The term "local" reflects its scope, which is limited to a single InfiniBand subnet managed by a subnet manager.

Reference: LRH and GRH InfiniBand Headers - NVIDIA Enterprise Support Portal

問題 #18

How does Spectrum-X achieve network isolation for multiple tenants?

- A. By assigning unique IP address ranges to each tenant.
- B. Using manual configuration of access control lists (ACLs).
- C. By implementing physical network segmentation.
- **D. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRF**

答案： D

解題說明：

Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network segment, ensuring that traffic is isolated and secure between tenants.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

問題 #19

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. ibpathverify
- C. NetQ
- D. tracert

答案：A

解題說明：

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

問題 #20

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