

2026 NCP-AIN–100% Free Reliable Braindumps Book | Authoritative Exam NCP-AIN Study Guide



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NVIDIA NCP-AIN Exam Overview:

Certification Vendor:	NVIDIA
Exam Name:	NVIDIA-Certified Professional AI Networking (NCP-AIN) Exam
Exam Number:	NCP-AIN
Real Exam Qty:	70-75
Certificate Validity Period:	2 years
Exam Price:	\$400 USD
Exam Format:	Multiple choice questions, Single/multiple select items
Available Languages:	English, Chinese
Passing Score:	Pass/Fail only, no exact score published
Exam Duration:	120 minutes
Related Certifications:	NVIDIA-Certified Professional AI Infrastructure (NCP-AII) NVIDIA-Certified Professional AI Operations (NCP-AIO)
Recommended Training:	NVIDIA Spectrum Networking Training NVIDIA InfiniBand Essentials
Exam Registration:	NVIDIA Certification Portal
Sample Questions:	NVIDIA NCP-AIN Sample Questions
Exam Way:	Online remote proctored exam

Pre Condition: 2–3 years of data center operation experience with NVIDIA hardware; ability to deploy and manage AI networking infrastructure supporting AI workloads

Official Syllabus URL: <https://www.nvidia.com/en-us/learn/certification/ai-networking-professional/>

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 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.
Topic 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.
Topic 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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q73-Q78):

NEW QUESTION # 73

How does the NVIDIA Spectrum Ethernet switch support AI networking?

- A. By ensuring end-to-end encryption of AI data
- B. By hosting machine learning frameworks
- C. By managing deep learning model deployment
- **D. By providing a fast interconnect for training data across multiple GPUs**

Answer: D

Explanation:

The NVIDIA Spectrum Ethernet switch is designed to provide high-performance networking, supporting AI workloads by ensuring fast communication between nodes, particularly GPUs, in distributed training setups.

NEW QUESTION # 74

You are configuring an InfiniBand network for an AI cluster and need to install the appropriate software stack. Which NVIDIA software package provides the necessary drivers and tools for InfiniBand configuration in Linux environments?

- A. NVIDIA GPU Cloud
- B. NVIDIA Container Runtime
- C. CUDA Toolkit
- **D. MLNX_OFED**

Answer: D

Explanation:

MLNX_OFED (Mellanox OpenFabrics Enterprise Distribution) is an NVIDIA-tested and packaged version of the OpenFabrics Enterprise Distribution (OFED) for Linux. It provides the necessary drivers and tools to support InfiniBand and Ethernet interconnects using the same RDMA (Remote Direct Memory Access) and kernel bypass APIs. MLNX_OFED enables high-performance networking capabilities essential for AI clusters, including support for up to 400Gb/s InfiniBand and RoCE (RDMA over Converged Ethernet).

Reference Extracts from NVIDIA Documentation:

* "MLNX_OFED is an NVIDIA tested and packaged version of OFED that supports two interconnect types using the same RDMA (remote DMA) and kernel bypass APIs called OFED verbs - InfiniBand and Ethernet."

* "Up to 400Gb/s InfiniBand and RoCE (based on the RDMA over Converged Ethernet standard) over 10 /25/40/50/100/200/400GbE are supported."

NEW QUESTION # 75

A cloud service provider is deploying the NVIDIA Spectrum-X Ethernet platform in a multi-tenant environment. To ensure the security and isolation of each tenant's AI workload, the provider wants to implement a feature that prevents unauthorized access to the network. Which of the following features of the Spectrum-X platform should the provider implement?

- A. Congestion Control
- B. Streaming Telemetry
- C. Adaptive Routing
- **D. Traffic Isolation**

Answer: D

Explanation:

In multi-tenant AI cloud environments, ensuring that each tenant's workloads are isolated and secure is paramount. The NVIDIA Spectrum-X platform addresses this need through its Traffic Isolation capabilities. This feature ensures that network resources are partitioned effectively, preventing unauthorized access and interference between tenants. By implementing Traffic Isolation, the provider can maintain strict boundaries between different tenant environments, ensuring both security and performance consistency.

NEW QUESTION # 76

Which of the following is an advantage of using NVIDIA's BlueField DPU in data center AI networking?

- A. It manages network traffic routing across different devices
- B. It accelerates AI model training
- **C. It offloads security and networking tasks from the CPU**
- D. It processes AI inference requests

Answer: C

Explanation:

The BlueField DPU offloads critical tasks, including networking and security, from the CPU, improving the overall efficiency of AI workloads by freeing up CPU resources for AI computation.

NEW QUESTION # 77

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. tracer
- B. NetQ

- C. ibpathverify
- D. ibnetdiscover

Answer: D

Explanation:

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.

NEW QUESTION # 78

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