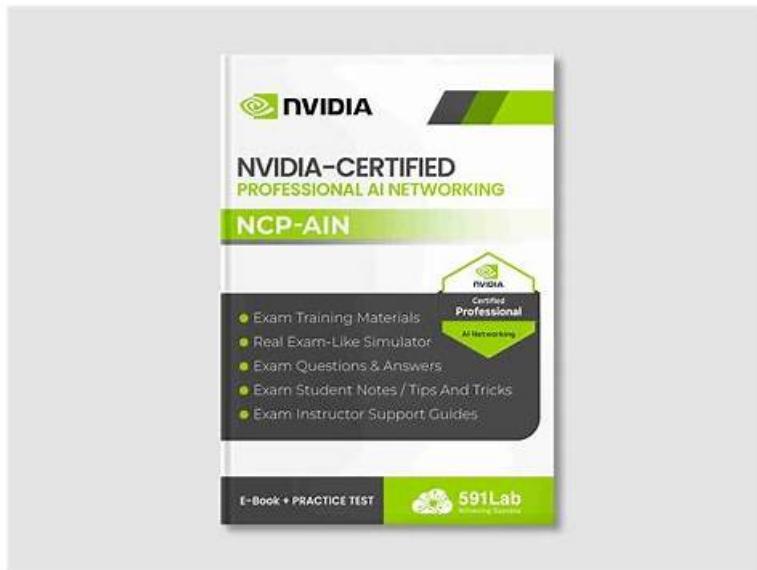# 100% Pass-Rate Certificate NCP-AIN Exam - Win Your NVIDIA Certificate with Top Score

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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 (Q34-Q39):

NEW QUESTION # 34
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. traceroute
- B. ibnetdiscover
- C. ping
- D. ibping

Answer: D

Explanation:
The tool specifically designed for testingInfiniBand connectivityis **ibping**. It functions similarly to the traditional ping utility but is optimized forInfiniBand fabrics.
From theNVIDIA 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 basicnode-to-nodereachability
* Supports testing viaLID, GUID, orport number
* Helps verify subnet manager routing and fabric health
Incorrect Options:
* pingandtracerouteare IP-based, not fabric-aware.
* ibnetdiscovermaps topology but doesn't test live connectivity.
Reference: InfiniBand Diagnostic Tools - ibping

NEW QUESTION # 35
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 LaunchPad
- B. NVIDIA Base Command Platform
- C. NVIDIA DGX SuperPOD
- D. NVIDIA DGX Cloud

Answer: C

Explanation:
TheNVIDIA DGX SuperPODis 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 # 36
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. GPU Cloud
- B. DOCA
- C. NetQ
- D. Spectrum-X Manager

Answer: C

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 # 37
How is congestion evaluated in an NVIDIA Spectrum-X system?

- A. By assessing the physical distance between network devices.
- B. By measuring the number of connected devices in the network.
- C. By analyzing the egress queue loads ensuring all ports are well-balanced.
- D. By monitoring the CPU and power usage of 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 # 38
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. ibdiagnet
- B. perfquery
- C. ibnetdiscover
- D. taping

Answer: A

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 # 39

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