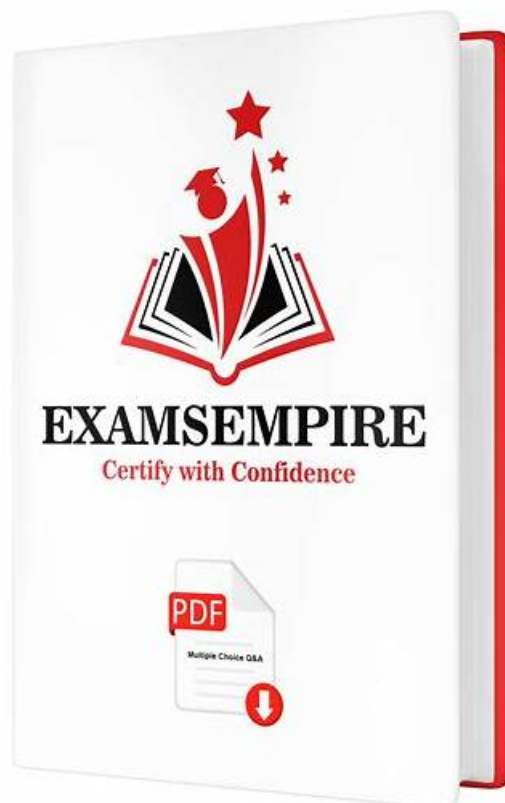


# NCP-AIN Best Practice - Pdf NCP-AIN Dumps



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## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• <b>InfiniBand Configuration, Optimization, Security, and Troubleshooting:</b> 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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>• <b>AI Network Architecture:</b> 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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>• <b>Spectrum-X Configuration, Optimization, Security, and Troubleshooting:</b> 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.</li></ul>

## NCP-AIN Exam Braindumps: NVIDIA-Certified Professional AI Networking & NCP-AIN Actual Test Questions

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### NVIDIA-Certified Professional AI Networking Sample Questions (Q46-Q51):

#### NEW QUESTION # 46

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 plugins
- C. Collection roles
- D. Collection libraries

**Answer: C**

Explanation:

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.

#### NEW QUESTION # 47

Which of the following routing protocols is not capable of avoiding credit loops?

- A. All routing protocols are capable of avoiding credit loops
- B. MINHOP
- C. FAT TREE
- D. UPDOWN

**Answer: B**

Explanation:

The MINHOP routing protocol, while efficient in finding minimal paths, does not inherently prevent credit loops. This can lead to deadlocks in the network. In contrast, routing protocols like UPDOWN and FAT TREE are designed to avoid such loops, ensuring more reliable network operation.

#### NEW QUESTION # 48

A financial services company is planning to implement an AI infrastructure to support real-time fraud detection and risk assessment. They need a solution that can handle both training and inference workloads while maintaining data privacy and security.

Which NVIDIA reference architecture component would be most appropriate to address the data privacy and security concerns in this AI networking setup?

- A. NVIDIA CUDA-X AI libraries

- B. NVIDIA Spectrum switches
- C. NVIDIA Magnum IO
- **D. NVIDIA BlueField DPUs**

**Answer: D**

Explanation:

NVIDIA BlueField Data Processing Units (DPUs) are integral to securing AI infrastructures, especially in environments requiring stringent data privacy and security measures. BlueField DPUs offload and accelerate critical infrastructure tasks such as encryption, firewall enforcement, and intrusion detection, thereby isolating sensitive data paths from potential threats.

In the context of AI workloads, BlueField DPUs enable secure and efficient data movement between GPUs and storage systems, ensuring that sensitive information, like financial data, is protected during both training and inference processes. Their integration into NVIDIA's reference architectures provides a hardware root of trust, essential for maintaining data integrity and compliance with security standards.

Reference: NVIDIA BlueField Networking Platform

#### NEW QUESTION # 49

You're troubleshooting a Spectrum-X network and notice that the System Status LED on a switch is blinking for more than 5 minutes. What is the most likely cause of this issue?

- **A. The Onyx software did not boot properly**
- B. The power supply unit is failing
- C. The switch is overheating

**Answer: A**

Explanation:

According to the NVIDIA Spectrum-X Switch Operating System (SX\_OS) Troubleshooting Guide, the System Status LED behavior is a critical indicator of the switch's internal operational state.

#### NEW QUESTION # 50

Which of the following statements are true about AI workloads and adaptive routing? Pick the 2 correct responses below.

- **A. Flow-based load balancing mechanisms increase congestion risk.**
- B. ECMP-based load balancing works best for AI workloads.
- C. AI workloads have very high entropy that helps spread traffic evenly without congestion.
- **D. AI workloads are made of a small number of volumetric flows called elephant flows.**

**Answer: A,D**

Explanation:

AI workloads, particularly in large-scale training scenarios, are characterized by a small number of high-bandwidth, long-lived flows known as "elephant flows." These flows can dominate network traffic and are prone to causing congestion if not managed effectively. Traditional flow-based load balancing mechanisms, such as Equal-Cost Multipath (ECMP), distribute traffic based on flow hashes. However, in AI workloads with low entropy (i.e., limited variability in flow characteristics), ECMP can lead to uneven traffic distribution and congestion on certain paths. Adaptive routing techniques, which dynamically adjust paths based on real-time network conditions, are more effective in managing AI traffic patterns and mitigating congestion risks.

#### NEW QUESTION # 51

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