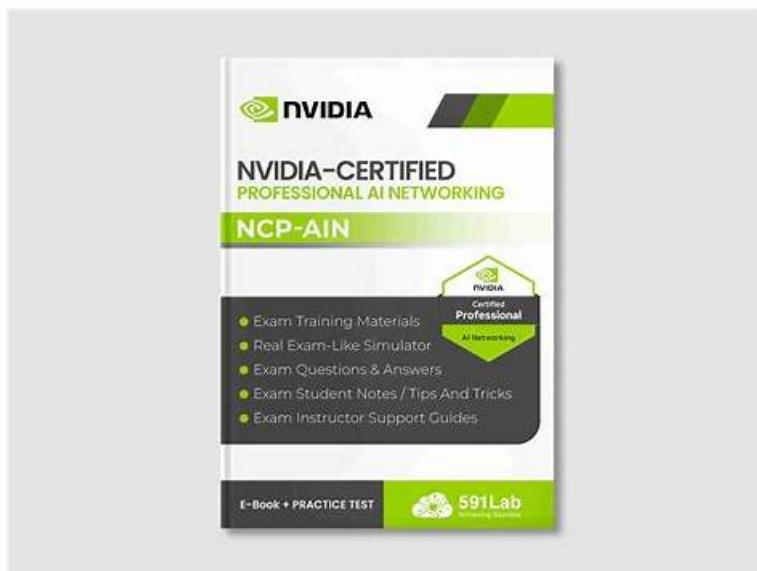


# New NCP-AIN Test Pattern - NCP-AIN Pass Test



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## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
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## NVIDIA-Certified Professional AI Networking Sample Questions (Q12-Q17):

### NEW QUESTION # 12

When designing a multi-tenancy East/West (E/W) fabric using Unified Fabric Manager (UFM), which method should be used?

- A. Partition / PKey
- B. VLAN
- C. VXLAN
- D. ROMA

**Answer: A**

Explanation:

In InfiniBand networks, Partitioning using Partition Keys (PKeys) is the standard method for implementing multi-tenancy and traffic isolation. PKeys allow administrators to define logical partitions within the fabric, ensuring that traffic is confined to designated groups of nodes. This mechanism is essential for creating secure and isolated environments in multi-tenant architectures.

The Unified Fabric Manager (UFM) leverages PKeys to manage these partitions effectively, enabling administrators to assign and control access rights across different tenants. This approach ensures that each tenant's traffic remains isolated, maintaining both security and performance integrity within the shared fabric.

Reference:NVIDIA UFM Enterprise User Manual v6.15.6-4

### NEW QUESTION # 13

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. ibis  
ibsim <LID>
- B. sminfo  
smpquery ND <LID>
- C. sminfo  
smpquery NI <LID>
- D. ibstat  
sminfo <LID>

**Answer: B**

Explanation:

To identify the activeSubnet Manager (SM) node in an InfiniBand fabric, the correct command sequence is:

- \* sminfo
- \* Displays general information about the active SM in the fabric, including its LID.
- \* smpquery ND <LID>
- \* Resolves the Node Description (ND) at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The sminfo utility provides the LID of the master SM. Use smpquery ND <LID> to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

- \* B (NI) is an invalid query type.
- \* C and D do not identify SMs.

Reference: InfiniBand SM Tools - sminfo & smpquery Usage

### NEW QUESTION # 14

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

**Answer: B**

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.

Reference: NVIDIA NVUE Collection Documentation - Ansible Roles

#### NEW QUESTION # 15

Which of the following NCCL environment variables enable SHARP aggregation with NCCL when using the NCCL-SHARP plugin?

Pick the 2 correct responses below

- **A. NCCL\_SHARP\_AUTOINIT**
- **B. NCCL\_COLLECTIVE\_ENABLE=1**
- C. NCCLSPECTRUM\_ENABLE=1
- D. NCCL\_ALGO=CollectiveNet

**Answer: A,B**

Explanation:

To enable SHARP (Scalable Hierarchical Aggregation and Reduction Protocol) aggregation using the NCCL- SHARP plugin, the following two environment variables are required:

\* NCCL\_COLLECTIVE\_ENABLE=1

Enables NCCL's support for Collective Network (Collective Network) operations, including SHARP.

\* NCCL\_SHARP\_AUTOINIT=1

Automatically initializes the SHARP plugin when available, activating SHARP-based collectives.

From the NVIDIA NCCL User Guide - SHARP Plugin Section:

"NCCL\_COLLECTIVE\_ENABLE must be set to enable collective network acceleration features."

"NCCL\_SHARP\_AUTOINIT enables automatic SHARP plugin integration at NCCL runtime." Incorrect Options:

\* B. NCCL\_ALGO=CollectiveNet- This variable controls the algorithm used for collectives but does not enable SHARP.

\* C. NCCLSPECTRUM\_ENABLE- This is not a documented NCCL variable.

Reference: NCCL SHARP Plugin Guide & NCCL User Guide - Environment Variables Section

#### NEW QUESTION # 16

You are troubleshooting a Spectrum-X network and need to ensure that the network remains operational in case of a link failure. Which feature of Spectrum-X ensures that the fabric continues to deliver high performance even if there is a link failure?

- A. NVIDIA NetQ
- B. RoCE Congestion Control
- **C. RoCE Adaptive Routing**
- D. RoCE Performance Isolation

**Answer: C**

### Explanation:

RoCE Adaptive Routing is a key feature of NVIDIA Spectrum-X that ensures high performance and resiliency in the network, even in the event of a link failure. This technology dynamically reroutes traffic to the least congested and operational paths, effectively mitigating the impact of link failures. By continuously evaluating the network's egress queue loads and receiving status notifications from neighboring switches, Spectrum-X can adaptively select optimal paths for data transmission. This ensures that the network maintains high throughput and low latency, crucial for AI workloads, even when certain links are down.

## Reference Extracts from NVIDIA Documentation:

\* "Spectrum-X employs global adaptive routing to quickly reroute traffic during link failures, minimizing disruptions and preserving optimal storage fabric utilization."

\* "RoCE Adaptive Routing avoids congestion by dynamically routing large AI flows away from congestion points. This approach improves network resource utilization, leaf/spine efficiency, and performance."

## NEW QUESTION # 17

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