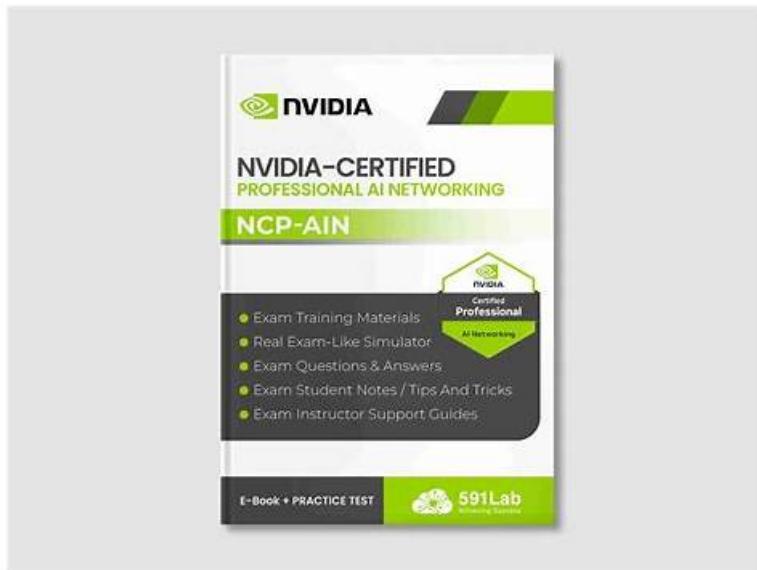


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## NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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>
Topic 3	<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>

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# Networking Study Notes

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## NVIDIA-Certified Professional AI Networking Sample Questions (Q40-Q45):

### NEW QUESTION # 40

When upgrading Cumulus Linux to a new version, which configuration files should be migrated from the old installation? Pick the 2 correct responses below.

- A. All files in /etc/network
- B. All files in /etc/cumulus/acl
- C. All files in /etc/mix
- D. All files in /etc

**Answer: A,B**

Explanation:

Before upgrading Cumulus Linux, it's essential to back up configuration files to a different server. The /etc directory is the primary location for all configuration data in Cumulus Linux. Specifically, the following files and directories should be backed up:

\* /etc/frr/ - Routing application (responsible for BGP and OSPF)  
\* /etc/hostname - Configuration file for the hostname of the switch  
\* /etc/network/ - Network configuration files, most notably /etc/network/interfaces and /etc/network/interfaces.d/  
\* /etc/cumulus/acl - Access control list configurations

Cumulus Linux is a network operating system used on NVIDIA Spectrum switches, including those in the Spectrum-X platform, to provide a Linux-based environment for Ethernet networking in AI and HPC data centers. When upgrading Cumulus Linux to a new version, it's critical to migrate specific configuration files to preserve network settings and ensure continuity. The question asks for the two configuration file locations that should be migrated from the old installation during an upgrade.

According to NVIDIA's official Cumulus Linux documentation, the key directories containing configuration files that should be migrated during an upgrade are /etc/cumulus/acl (for access control list configurations) and /etc/network (for network interface configurations). These directories store critical network settings that define the switch's behavior, such as ACL rules and interface settings, which must be preserved to maintain network functionality after the upgrade.

Exact Extract from NVIDIA Documentation:

"When upgrading Cumulus Linux, you must back up and migrate specific configuration files to ensure continuity of network settings. The following directories should be included in the backup:

\* /etc/cumulus/acl: Contains access control list (ACL) configuration files that define packet filtering and security policies.  
\* /etc/network: Contains network interface configuration files, such as interfaces and ifupdown2 settings, which define the network interfaces and their properties. Back up these directories before upgrading and restore them after the new version is installed to maintain consistent network behavior." -NVIDIA Cumulus Linux Upgrade Guide This extract confirms that options A and B are the correct answers, as /etc/cumulus/acl and /etc/network contain essential configuration files that must be migrated during a Cumulus Linux upgrade. These files ensure that ACL policies and network interface settings are preserved, which are critical for Spectrum-X configurations in AI networking environments.

Reference:Upgrading Cumulus Linux - NVIDIA Docs

### NEW QUESTION # 41

You are troubleshooting InfiniBand connectivity issues in a cluster managed by the NVIDIA Network Operator. You need to verify the status of the InfiniBand interfaces. Which command should you use to check the state and link layer of InfiniBand interfaces on a node?

- A. ip link show dev ib0
- B. ifconfig ib0
- C. **ibstat -d mlx5\_X**
- D. rdma show devices

**Answer: C**

Explanation:

To check the status and link layer of InfiniBand interfaces, the `ibstat` command is used. For example:

```
ibstat -d mlx5_0
```

This command provides detailed information about the InfiniBand device, including its state (e.g., Active), physical state (e.g., LinkUp), and link layer (e.g., InfiniBand).

Reference: NVIDIA DGX BasePOD Deployment Guide - Network Operator Section

#### NEW QUESTION # 42

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

**Answer: C**

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.

Reference Extracts from NVIDIA Documentation:

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

\* "Spectrum-X utilizes the programmable congestion control function on the BlueField-3 hardware platform to accurately assess the congestion condition of the traffic path by using in-band telemetry information... to achieve the goal of performance isolation to ensure that each tenant gets the best expected performance in the cloud and is not negatively affected by congestion of other tenants."

#### NEW QUESTION # 43

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 N1 < LID >`
- C. `ibstat`  
`sminfo < LID >`
- D. `sminfo`  
`smpquery ND < LID >`

**Answer: D**

Explanation:

To identify the active Subnet 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 (N1) is an invalid query type.

\* Candidates do not identify SMs.

Reference: InfiniBand SM Tools - sminfo & smpquery Usage

#### NEW QUESTION # 44

You're designing a multi-GPU system for AI training using NVIDIA GPUs with NVLink connections.

You need to maximize inter-GPU communication bandwidth. Which feature included in NCCL allows for improved communication between GPUs and NICs?

- A. PXN
- B. Graph Search Optimization
- C. Adaptive Routing
- D. SHARP v2

**Answer: A**

Explanation:

The correct answer is PXN (Peer eXchange Network).

From the NVIDIA NCCL Documentation:

"PXN enables communication between GPUs connected via NVLink and NICs by treating the GPUs as a distributed switch. This architecture improves bandwidth utilization by enabling any GPU to communicate with the NIC via the shortest path available, even if it's not directly connected to the NIC." This enhances GPU-to-NIC and NIC-to-GPU transfers, leveraging the NVLink topology. It significantly boosts performance in multi-GPU setups where not every GPU is directly connected to the NIC.

Other options:

- \* Adaptive Routing is a fabric-level feature for dynamic path rerouting.
- \* Graph Search Optimization is used internally for topology modeling in NCCL.
- \* SHARP v2 is a switch-based collective acceleration method, unrelated to PXN.

Reference: NVIDIA NCCL User Guide - PXN Feature Section

#### NEW QUESTION # 45

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