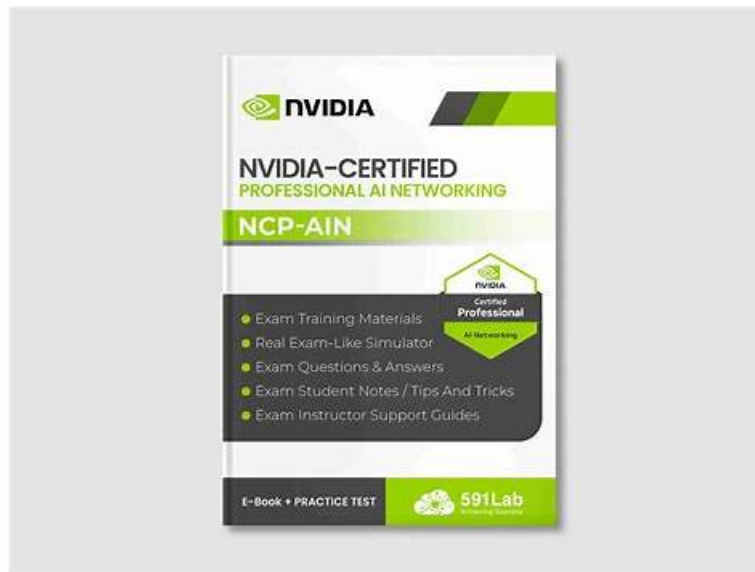


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## NVIDIA-Certified Professional AI Networking Sample Questions (Q61-Q66):

### NEW QUESTION # 61

What is the total throughput of the SN5600 Spectrum-X switch?

- A. 102.4 gigabits per second
- B. 25.6 terabits per second
- C. 12.8 petabits per second
- D. 51.2 terabits per second

**Answer: D**

Explanation:

The SN5600 smart-leaf/spine/super-spine switch offers 64 ports of 800GbE in a dense 2U form factor. The SN5600 offers diverse connectivity in combinations of 1 to 800GbE and boasts an industry-leading total throughput of 51.2Tb/s.  
Reference:NVIDIA Spectrum SN5600 Ethernet Switch - Bluum

### NEW QUESTION # 62

Which of the following commands would you use to assign the IP address 20.11.12.13 to the management interface in SONiC?

- A. interface mgmt0 vrf mgmt ip address 20.11.12.13 20.11.12.254
- B. nv set interface mgmt ip 20.11.12.13 20.11.12.254
- C. sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
- D. config ip add eth0 20.11.12.13/24 20.11.12.254

**Answer: C**

Explanation:

In SONiC, to assign a static IP address to the management interface, the correct command is:

```
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
```

This command sets the IP address and the default gateway for the management interface.

SONiC (Software for Open Networking in the Cloud) is an open-source network operating system used on NVIDIA Spectrum-X platforms, including Spectrum-4 switches, to provide a flexible and scalable networking solution for AI and HPC data centers. Configuring the management interface in SONiC is a critical task for enabling remote access and network management. The question asks for the correct command to assign the IP address 20.11.12.13 to the management interface, typically identified as eth0 in SONiC, as it is the default management interface for out-of-band management.

Based on NVIDIA's official SONiC documentation, the correct command to assign an IP address to the management interface involves using the config command-line utility, which is part of SONiC's configuration framework. The command sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254 is the standard method to configure the IP address and gateway for the eth0 management interface. This command specifies the interface (eth0), the IP address with its subnet mask (20.11.12.13/24), and the default gateway (20.11.12.254), ensuring proper network connectivity.

Exact Extract from NVIDIA Documentation:

"To configure the management interface in SONiC, use the config interface ip add command. For example, to assign an IP address to the eth0 management interface, run:

```
sudo config interface ip add eth0 <IP_ADDRESS>/<PREFIX_LENGTH> <GATEWAY> Example:
```

```
sudo config interface ip add eth0 20.11.12.13/24 20.11.12.254
```

This command adds the specified IP address and gateway to the management interface, enabling network access."

-NVIDIA SONiC Configuration Guide

This extract confirms that option C is the correct command for assigning the IP address to the management interface in SONiC. The use of sudo ensures the command is executed with the necessary administrative privileges, and the syntax aligns with SONiC's configuration model, which persists the changes in the configuration database.

Reference:Dell EMC Networking S-Series Basic Switch Management Configuration

### NEW QUESTION # 63

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. NCCLSPECTRUM\_ENABLE=1
- B. NCCL\_SHARP\_AUTOINIT
- C. NCCL\_ALGO=CollNet
- D. NCCL\_COLLNET\_ENABLE=1

**Answer: B,D**

Explanation:

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

```
* NCCL_COLLNET_ENABLE=1
```

Enables NCCL's support for CollNet (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\_COLLNET\_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=CollNet- 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 # 64

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 # 65

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. ibnetdiscover
- B. perfquery
- C. ibdiagnet
- D. taping

**Answer: C**

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 # 66

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