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## NVIDIA NCP-AII NVIDIA AI Infrastructure

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## NVIDIA-Certified Professional AI Networking Sample Questions (Q11-Q16):

### NEW QUESTION # 11

You are setting up PKey memberships for different tenants in an InfiniBand network. You want to ensure that some tenants have limited communication capabilities. Which PKey membership type allows members to communicate with full members but not with other members of the same type?

- A. Restricted membership
- B. Full membership
- C. Isolated membership
- D. Limited/partial membership

**Answer: D**

Explanation:

In InfiniBand networks, P\_Keys (Partition Keys) control communication boundaries. Each port can belong to one or more partitions with either full or limited membership.

From NVIDIA InfiniBand Documentation (Partitioning and P\_Keys):

"A limited (or partial) membership permits a port to communicate only with other ports in the same partition that have full membership. It cannot communicate with other limited members, even if they are in the same P\_Key partition." This makes limited/partial membership ideal for multi-tenant security, where tenant ports can reach infrastructure ports (full members) but not other tenant ports (limited members).

Incorrect Options:

- \* A & B are not valid InfiniBand P\_Key types.
- \* C (Full membership) allows unrestricted communication within the same partition.

Reference: NVIDIA InfiniBand Guide - PKey Partitioning and Membership Types

### NEW QUESTION # 12

You have implemented adaptive routing in your Spectrum-X network to optimize AI workload performance.

You need to verify the effectiveness of this configuration and monitor its impact on network congestion.

Which tool would be most appropriate for monitoring and analyzing the adaptive routing performance in your Spectrum-X environment?

- A. NetQ
- B. CloudAI Benchmark
- C. MLNXOS
- D. Ansible

**Answer: A**

Explanation:

NVIDIA NetQ is a comprehensive network operations tool designed to provide real-time visibility into the health and performance of NVIDIA networking environments, including Spectrum-X. It offers detailed telemetry and analytics, allowing administrators to monitor adaptive routing behaviors, detect congestion, and analyze traffic patterns. By leveraging NetQ, you can ensure that adaptive routing is functioning as intended and that the network is optimized for AI workloads.

Reference Extracts from NVIDIA Documentation:

\* "The NVIDIA NetQ network validation and ASIC monitoring tool set provide visibility into the network health and behavior. The NetQ flow telemetry analysis shows the paths that data flows take as they traverse the network, providing network latency and performance insights."

\* "By leveraging telemetry from Spectrum Ethernet switches and BlueField-3 SuperNICs, NVIDIA NetQ can detect network issues proactively and troubleshoot network issues faster for optimal use of network capacity."

### NEW QUESTION # 13

You need to configure a bond in Cumulus Linux. Which command should you use?

- A. nv set bondbond1 interface member swp1-4
- B. nv set interface bond1 bond member swp1-4
- C. nv set interface bond1 bond mlag enable
- D. nv set interface bond1 bond mode lacp

**Answer: D**

#### Explanation:

In Cumulus Linux, configuring a bond interface with Link Aggregation Control Protocol (LACP) involves setting the bond mode to 'lacp'. The correct command to achieve this is:

```
nv set interface bond1 bond mode lacp
```

This command sets the bonding mode of 'bond1' to LACP, enabling dynamic link aggregation for increased bandwidth and redundancy.

Reference Extracts from NVIDIA Documentation:

\* 'To reset the link aggregation mode for bond1 to the default value of 802.3ad, run the nv set interface bond1 bond mode lacp command.'

#### NEW QUESTION # 14

You are investigating a performance issue in a Spectrum-X network and suspect there might be congestion problems.

Which component executes the congestion control algorithm in a Spectrum-X environment?

- A. NVIDIA DOCA software
- B. **BlueField-3 SuperNICs**
- C. Spectrum-4 switches
- D. NVIDIA NetQ

#### Answer: B

#### Explanation:

In the Spectrum-X architecture, BlueField-3 SuperNICs are responsible for executing the congestion control algorithm. They handle millions of congestion control events per second with microsecond reaction latency, applying fine-grained rate decisions to manage data flow effectively. This ensures optimal network performance by preventing congestion and packet loss.

Reference: NVIDIA Spectrum-X Networking Platform

#### NEW QUESTION # 15

You are troubleshooting a Spectrum-X network and need to validate the fabric configuration. Which feature of Spectrum-X allows for automated fabric validation?

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

#### Answer: D

#### Explanation:

NVIDIA NetQ is a network operations tool that provides real-time visibility and automated validation of the network fabric. It helps in identifying misconfigurations, monitoring network health, and ensuring that the fabric meets the required specifications for AI workloads.

Reference: NVIDIA Spectrum-X Documentation - Automated Fabric Validation

#### NEW QUESTION # 16

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