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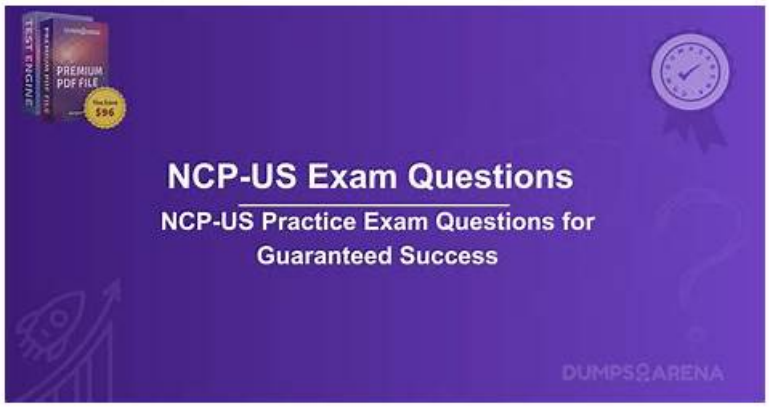

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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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.
Topic 3	• 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q64-Q69):

NEW QUESTION # 64
Which of the following commands would you use to assign the IP address 20.11.12.13 to the management interface in SONiC?

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

Answer: D

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 # 65
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 accessto the network.
Which of the following features of the Spectrum-X platform should the provider implement?

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

Answer: B

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 itsTraffic Isolationcapabilities.
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 # 66
You need to configure a bond in Cumulus Linux. Which command should you use?

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

Answer: C

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 # 67
Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

- A. WJH
- B. BGP
- C. NCLU
- D. ONIE

Answer: A

Explanation:
The "What Just Happened" (WJH) service on Cumulus switches provides real-time visibility into network problems by monitoring various layers and components, including layer 1, layer 2, layer 3, tunnel, buffer, and Access Control List (ACL) related issues. WJH streams detailed and contextual telemetry data, enabling administrators to diagnose and troubleshoot network problems effectively.
Reference Extracts from NVIDIA Documentation:
* "WJH can monitor layer 1, layer 2, layer 3, tunnel, buffer and ACL related issues."
* "The WJH service enables you to diagnose network problems by looking at dropped packets."

NEW QUESTION # 68
What does NetQ leverage (in addition to NVIDIA "What Just Happened" switch telemetry data and NVIDIA DOCA telemetry) to help network operators proactively identify server and application root cause issues?

- A. Behavioral telemetry
- B. Application telemetry
- C. Flow telemetry
- D. Packet capture telemetry

Answer: A

Explanation:
NetQintegrates multiple telemetry sources, includingWJH,DOCA, and notably,Behavioral Telemetry.
From theNetQ Documentation - Behavioral Telemetry Section:
"Behavioral telemetry in NetQ correlates server and application behavior with network events, offering insights into root cause analysis by detecting anomalies in protocol, path, or performance behavior." This helps identify patterns like:

* Misbehaving applications causing retransmits.
* Sudden changes in traffic flows.
* Latency spikes correlated with app-level issues.
It complements device-level telemetry by introducingintent-based anomaly detection, crucial for proactive operations.
Incorrect Options:
* Flow telemetryandpacket captureoffer raw data but not behavioral insights.
* Application telemetryis too vague and is not the term NetQ uses for this feature.
Reference: NetQ 3.2 Documentation - Behavioral Telemetry

NEW QUESTION # 69
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Beyond knowing the answer, and actually understanding the NCP-AIN test questions puts you one step ahead of the test. Completely understanding a concept and reasoning behind how something works, makes your task second nature. Your NCP-AIN test questions will melt in your hands if you know the logic behind the concepts. Any legitimate NCP-AIN Test Questions should enforce this style of learning - but you will be hard pressed to find more than a NCP-AIN test questions anywhere other than Actual4Labs.