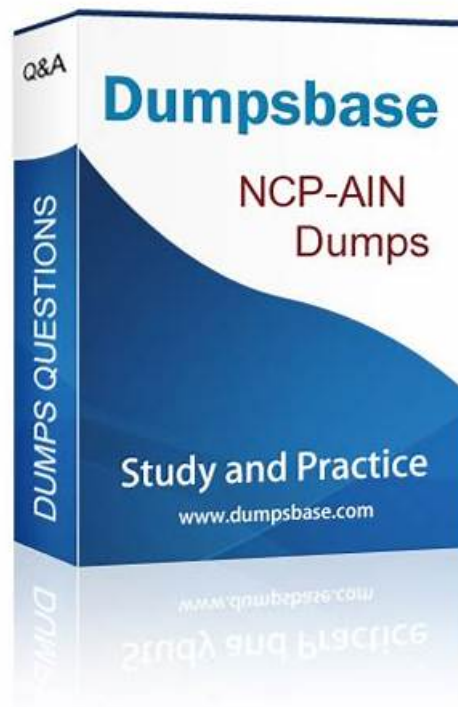


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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details

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

NVIDIA-Certified Professional AI Networking Sample Questions (Q24-Q29):

NEW QUESTION # 24

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

Answer: A

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 # 25

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

Answer: C

Explanation:

NetQ integrates multiple telemetry sources, including WJH, DOCA, and notably, Behavioral Telemetry.

From the NetQ 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 introducing intent-based anomaly detection, crucial for proactive operations.

Incorrect Options:

- * Flow telemetry and packet capture offer raw data but not behavioral insights.
- * Application telemetry is too vague and is not the term NetQ uses for this feature.

Reference: NetQ 3.2 Documentation - Behavioral Telemetry

NEW QUESTION # 26

You're troubleshooting a Spectrum-X network and notice that the System Status LED on a switch is blinking for more than 5 minutes. What is the most likely cause of this issue?

- **A. The Onyx software did not boot properly**
- B. The switch is overheating
- C. The power supply unit is failing

Answer: A

Explanation:

According to the NVIDIA Spectrum-X Switch Operating System (SX_OS) Troubleshooting Guide, the System Status LED behavior is a critical indicator of the switch's internal operational state.

From the document:

"The System Status LED will blink green during system initialization. If the LED continues blinking for more than 5 minutes, it indicates that the Onyx OS has failed to load properly. The system may be stuck in the boot process, or the file system may be corrupted." This blinking LED beyond normal initialization time indicates that the system has either encountered a failure during software boot or is unable to transition from bootloader to the OS runtime environment (i.e., Onyx).

Key causes include:

- * Corrupted or missing system files.
- * Failed firmware or OS upgrade attempts.
- * Boot device (e.g., eMMC or SSD) issues or corrupted partitions.

Technically, during power-on:

- * The switch performs POST (Power-On Self Test).
- * Then the Onyx OS attempts to load from the boot partition.
- * If the Onyx OS kernel or root filesystem is invalid, the system halts boot, and the LED remains in a blinking state, as no successful OS load confirmation is triggered.

Remediation Steps (as per NVIDIA guide):

- * Access the switch through console and monitor boot logs.
- * Use ONIE recovery or re-flash a stable Onyx OS version.
- * Check system storage integrity using built-in diagnostics.

Exact Extract Reference:

Source: NVIDIA SX_OS 3.9.3000 Documentation

Topic: Troubleshooting System Status LED

Extract: "If the LED blinks for more than 5 minutes and the switch is not accessible via CLI, the Onyx software failed to load properly and recovery procedures must be initiated."

NEW QUESTION # 27

In Cumulus Linux, which technology enables the ability to provide active-active redundancy to servers, without the need for direct inter-switch links?

- **A. EVPN Multi-homing**
- B. VSS
- C. MLAG

Answer: A

Explanation:

EVPN Multi-homing enables active-active redundancy without inter-switch links by using overlay routing over VXLAN and distributed control plane using BGP EVPN.

From the official NVIDIA Cumulus Linux EVPN Multihoming Documentation:

"EVPN multihoming allows multiple Top-of-Rack (ToR) switches to connect to the same server while maintaining full layer-2 redundancy without the need for inter-switch links or traditional MLAG configuration." Key benefits:

- * Simplified topology (no ISL/peer-link needed)

- * BGP-based control plane

- * Fast convergence

- * Active-active links per host NIC

Incorrect Options:

- * MLAG requires ISL between switches and peer-link configuration.

- * VSS (Virtual Switching System) is a Cisco term, not supported in NVIDIA networking.

Reference: Cumulus Linux Docs - EVPN Multihoming

NEW QUESTION # 28

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

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

Answer: A

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 - Blum

NEW QUESTION # 29

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