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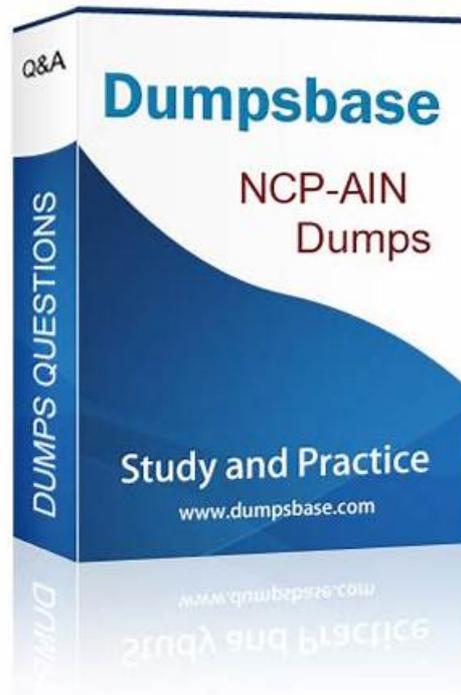
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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 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 (Q69-Q74):

NEW QUESTION # 69
You are concerned about potential security threats and unexpected downtime in your InfiniBand data center.
Which UFM platform uses analytics to detect security threats, operational issues, and predict network failures in InfiniBand data centers?

- A. Host Agent
- B. Telemetry Platform
- C. Cyber-AI Platform
- D. Enterprise Platform

Answer: C

Explanation:
TheNVIDIA UFM Cyber-AI Platformis specifically designed to enhance security and operational efficiency in InfiniBand data centers. It leverages AI-powered analytics to detect security threats, operational anomalies, and predict potential network failures. By analyzing real-time telemetry data, it identifies abnormal behaviors and performance degradation, enabling proactive maintenance and threat mitigation.
This platform integrates with existing UFM Enterprise and Telemetry services to provide a comprehensive view of the network's health and security posture. It utilizes machine learning algorithms to establish baselines for normal operations and detect deviations that may indicate security breaches or hardware issues.
Reference:NVIDIA UFM Cyber-AI Documentation v2.9.1

NEW QUESTION # 70
You have recently implemented NVIDIA Spectrum-X in your data center to optimize AI workloads. You need to verify the performance improvements and create a baseline for future comparisons.
Which tool would be most appropriate for creating performance baseline results in this Spectrum-X environment?

- A. NetQ
- B. Ansible
- C. CloudAI Benchmark
- D. MLNX-OS

Answer: C

Explanation:
TheCloudAI Benchmarkis designed to evaluate and establish performance baselines in AI-optimized networking environments like NVIDIA Spectrum-X. It assesses various performance metrics, including throughput and latency, ensuring that the network meets the demands of AI workloads. This benchmarking is essential for validating the benefits of Spectrum-X and for ongoing performance monitoring.
Reference:NVIDIA Spectrum-X Validated Solution Stack

NEW QUESTION # 71
Which service on Cumulus switches can monitor layer 1, layer 2, layer 3, tunnel, buffer, and ACL related issues?

- A. WJH

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

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 # 72
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. sminfo
  smpquery Nl <LID>
- B. ibstat
  sminfo <LID>
- C. ibis
  ibsim <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 (Nl) is an invalid query type.
* C and D do not identify SMs.
Reference: InfiniBand SM Tools - sminfo & smpquery Usage

NEW QUESTION # 73
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. NVIDIA NetQ
- C. NVIDIA DOCA
- D. RoCE Adaptive Routing

Answer: B

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 # 74

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