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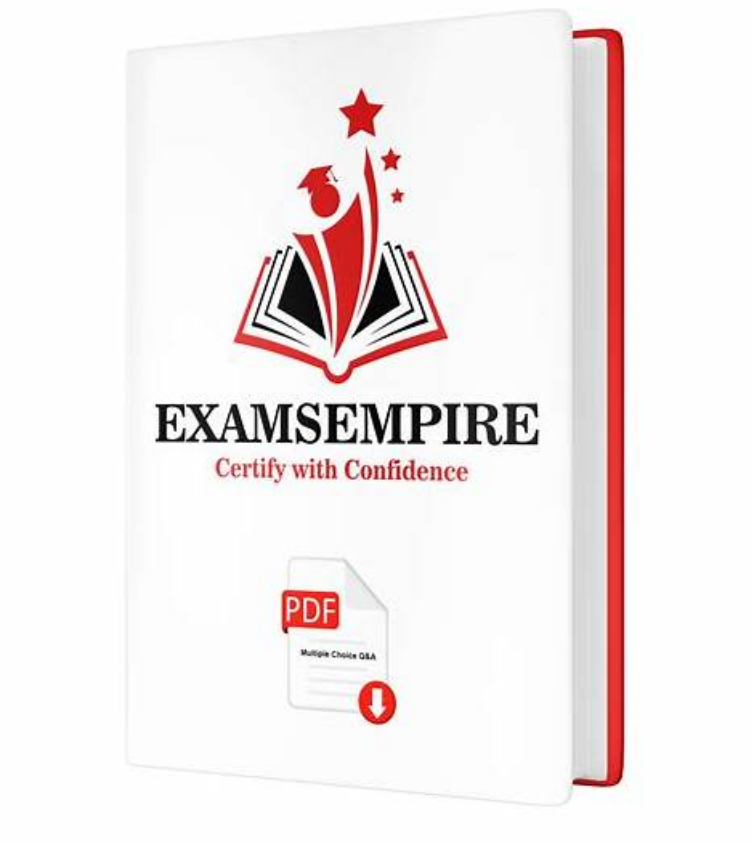

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NVIDIA NCP-AIN Exam Syllabus Topics:

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	• 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 3	• 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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q35-Q40):

NEW QUESTION # 35
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. Packet capture telemetry
- B. Flow telemetry
- C. Application telemetry
- D. Behavioral telemetry

Answer: D

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 # 36
When upgrading DOCA on a BlueField DPU, what command should first be run on the host?

- A. sudo apt-get upgrade doca
- B. sudo apt-get install doca
- C. sudo apt-get autoremove
- D. /usr/sbin/ofed_uninstall.sh -force

Answer: D

Explanation:
Before upgrading the DOCA SDK on aBlueField DPU, it ismandatory to uninstall the existing OFED driversto prevent compatibility conflicts.
From theNVIDIA DOCA Installation Guide:

"Before upgrading DOCA or BlueField-related software, you must remove existing OFED packages using: /usr/sbin/ofed_uninstall.sh -force." This ensures:
* Clean driver state
* No residual kernel modules or userspace libraries
* Proper registration of new DOCA/OFED versions
Incorrect Options:
* AandCmay not resolve conflicts.
* Dinstalls but doesn't remove conflicting packages.
Reference: DOCA SDK Installation - Uninstall OFED Requirement

NEW QUESTION # 37
A user has requested confirmation that the InfiniBand network is performing optimally and is not limiting the speed of a training run. To verify this, you would like to measure the RDMA throughput rate between two endpoints.
Which tool should be used?

- A. ib_write_bw
- B. ibdiagnet
- C. ping
- D. iperf

Answer: A

Explanation:
The ib_write_bw tool is part of the Perftest package and is specifically designed to measure the bandwidth of RDMA write operations between two InfiniBand endpoints. It provides accurate assessments of RDMA throughput, which is crucial for verifying the performance of InfiniBand networks in high-performance computing and AI training environments.
Reference:ib_write_bw - NVIDIA Enterprise Support Portal

NEW QUESTION # 38
You are planning to deploy a large-scale Spectrum-X network for AI workloads. Before physical implementation, you want to validate the network design and configuration using a digital twin approach.
Which NVIDIA tool would be most appropriate for creating and simulating a digital twin of your Spectrum-X network?

- A. NVIDIA Omniverse
- B. NVIDIA Base Command Manager
- C. NVIDIA Air
- D. NVIDIA NetQ

Answer: C

Explanation:
NVIDIA Air is a cloud-based network simulation tool designed to create digital twins of data center infrastructure, including Spectrum-X networks. It allows users to model switches, SuperNICs, and storage components, enabling the simulation, validation, and automation of network configurations before physical deployment. This facilitates Day 0, 1, and 2 operations, ensuring that network designs are tested and optimized for AI workloads.
Reference Extracts from NVIDIA Documentation:
* "NVIDIA Air enables cloud-scale efficiency by creating identical replicas of real-world data center infrastructure deployments."
* "NVIDIA Air allows users to model data center deployments with full software functionality, creating a digital twin. Transform and accelerate time to AI by simulating, validating, and automating changes and updates."
* "NVIDIA Air supports simulation of NVIDIA Spectrum Ethernet (Cumulus Linux and SONiC) switches and NVIDIA BlueField DPUs and SuperNICs as well as the NetQ network operations toolset."

NEW QUESTION # 39
Your organization is planning to utilize Ethernet for an upcoming AI project. Spectrum-X is the selected platform for this deployment, and Adaptive Routing is a key feature.
What are the requirements included in the Spectrum-X RA for adaptive routing?

- A. SN5600, BlueField-3 SuperNIC, DDR, TCP traffic
- B. SN5600, BlueField-3 SuperNIC, DDR, RoCE traffic
- C. SN4700, BlueField-3 SuperNIC, DDR, RoCE traffic

Answer: B

Explanation:
The NVIDIA Spectrum-X Reference Architecture (RA) 1.0.1 is designed for Ethernet AI cloud deployments and includes the SN5600 Spectrum-4 switches and BlueField-3 SuperNICs. This architecture supports adaptive routing and DOCA programmable congestion control (PCC) for lossless RoCE traffic, optimizing performance for AI workloads.
The SN5600 switch offers 64 ports of 800GbE in a dense 2U form factor, providing high throughput and low latency essential for AI applications.

NEW QUESTION # 40
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