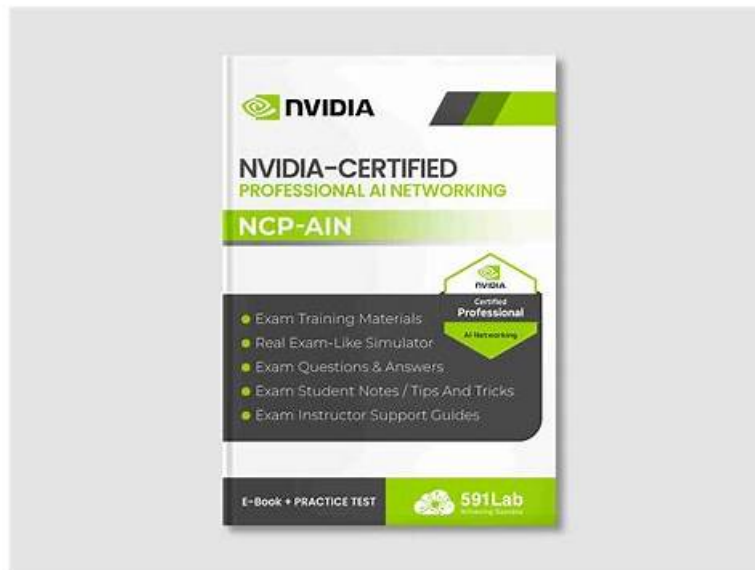


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NVIDIA NCP-AIN Exam Syllabus Topics:

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">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	<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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q75-Q80):

NEW QUESTION # 75

What is the role of NVIDIA's AI-driven network monitoring in data centers?

- A. To monitor GPU performance and utilization
- B. To ensure secure data transmission
- C. To optimize traffic routing for deep learning models
- **D. To dynamically adjust network parameters based on workload demands**

Answer: D

Explanation:

AI-driven network monitoring helps adjust and optimize the network's parameters dynamically to meet the changing demands of AI workloads, ensuring better performance and reduced bottlenecks.

NEW QUESTION # 76

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

Answer: C

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 & Bare 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 # 77

A major cloud provider is designing a new data center to support large-scale AI workloads, particularly for training large language models. They want to optimize their network architecture for maximum performance and efficiency.

Why is a rail-optimized topology considered a best practice for AI network architecture in this scenario?

- A. It prioritizes north-south traffic over east-west traffic for better internet connectivity.
- **B. It provides optimal GPU-to-GPU communication and reduces network interference between flows.**
- C. It maximizes the number of network hops to increase data redundancy.
- D. It simplifies network management by using a single large switch for all connections.

Answer: B

Explanation:

A rail-optimized topology is designed to enhance GPU-to-GPU communication by connecting each GPU's Network Interface Card

(NIC) to a dedicated rail switch. This configuration ensures predictable traffic patterns and minimizes network interference between data flows, which is crucial for the performance of large-scale AI workloads, such as training large language models. By reducing contention and latency, this topology supports efficient and scalable AI training environments.

Reference Extracts from NVIDIA Documentation:

- * "Rail-optimized network topology helps maximize all-reduce performance while minimizing network interference between flows."
- * "A Rail Optimized Stripe Architecture provides efficient data transfer between GPUs, especially during computationally intensive tasks such as AI Large Language Models (LLM) training workloads, where seamless data transfer is necessary to complete the tasks within a reasonable timeframe."

NEW QUESTION # 78

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 a BlueField DPU, it is mandatory to uninstall the existing OFED drivers to prevent compatibility conflicts.

From the NVIDIA 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:

- * `AandC` may not resolve conflicts.
- * `D` installs but doesn't remove conflicting packages.

Reference: DOCA SDK Installation - Uninstall OFED Requirement

NEW QUESTION # 79

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

Answer: B

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.

NEW QUESTION # 80

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