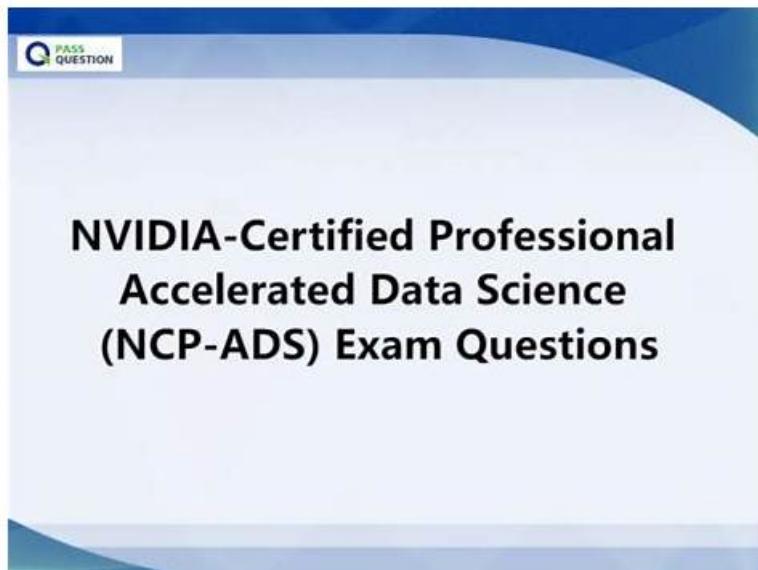


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## NVIDIA NCP-AIN Exam Syllabus Topics:

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

Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
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## NVIDIA-Certified Professional AI Networking Sample Questions (Q18-Q23):

### NEW QUESTION # 18

You are optimizing an InfiniBand network for AI workloads that require low-latency and high-throughput data transfers. Which feature of InfiniBand networks minimizes CPU overhead during data transfers?

- A. PKey
- B. TCP/IP Offloading
- **C. Direct Memory Access (DMA)**
- D. SHARP

**Answer: C**

Explanation:

Direct Memory Access (DMA) in InfiniBand networks allows data to be transferred directly between the memory of two devices without involving the CPU. This capability significantly reduces CPU overhead, lowers latency, and increases throughput, making it ideal for AI workloads that demand efficient data transfers.

### NEW QUESTION # 19

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

**Answer: D**

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 # 20

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. Application telemetry
- C. Flow telemetry
- **D. Behavioral telemetry**

**Answer: D**

#### 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 # 21

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 access to the network.

Which of the following features of the Spectrum-X platform should the provider implement?

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

#### Answer: A

#### 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 its Traffic Isolation capabilities.

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 # 22

Which of the following statements are true about AI workloads and adaptive routing?

Pick the 2 correct responses below.

- A. ECMP-based load balancing works best for AI workloads.
- B. Flow-based load balancing mechanisms increase congestion risk.
- C. AI workloads have very high entropy that helps spread traffic evenly without congestion.
- D. AI workloads are made of a small number of volumetric flows called elephant flows.

#### Answer: B,D

#### Explanation:

AI workloads, particularly in large-scale training scenarios, are characterized by a small number of high-bandwidth, long-lived flows known as "elephant flows." These flows can dominate network traffic and are prone to causing congestion if not managed effectively. Traditional flow-based load balancing mechanisms, such as Equal-Cost Multipath (ECMP), distribute traffic based on flow hashes. However, in AI workloads with low entropy (i.e., limited variability in flow characteristics), ECMP can lead to uneven traffic distribution and congestion on certain paths.

Adaptive routing techniques, which dynamically adjust paths based on real-time network conditions, are more effective in managing

## AI traffic patterns and mitigating congestion risks.

Reference:Powering Next-Generation AI Networking with NVIDIA SuperNICs

## NEW QUESTION # 23

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