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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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 (Q30-Q35):

NEW QUESTION # 30

You are configuring an InfiniBand network for an AI cluster and need to install the appropriate software stack. Which NVIDIA software package provides the necessary drivers and tools for InfiniBand configuration in Linux environments?

- A. NVIDIA Container Runtime
- B. CUDA Toolkit
- C. **MLNX_OFED**
- D. NVIDIA GPU Cloud

Answer: C

Explanation:

MLNX_OFED (Mellanox OpenFabrics Enterprise Distribution) is an NVIDIA-tested and packaged version of the OpenFabrics Enterprise Distribution (OFED) for Linux. It provides the necessary drivers and tools to support InfiniBand and Ethernet interconnects using the same RDMA (Remote Direct Memory Access) and kernel bypass APIs. MLNX_OFED enables high-performance networking capabilities essential for AI clusters, including support for up to 400Gb/s InfiniBand and RoCE (RDMA over Converged Ethernet).

NEW QUESTION # 31

NVIDIA's AI networking solutions are most commonly used in which of the following environments?

- A. Consumer gaming PCs
- B. Mobile devices
- C. Home routers
- D. **Large-scale data centers**

Answer: D

Explanation:

NVIDIA's AI networking solutions are designed for data centers that support heavy AI/ML workloads, providing high-performance computing and networking infrastructure needed to train and deploy deep learning models.

NEW QUESTION # 32

You are tasked with troubleshooting a link flapping issue in an InfiniBand AI fabric. You would like to start troubleshooting from the physical layer.

What is the right NVIDIA tool to be used for this task?

- A. nvidia-smi utility
- B. tcpdump tool
- C. **mxlink utility**

Answer: C

Explanation:

The mxlink tool is used to check and debug link status and issues related to them. The tool can be used on different links and cables (passive, active, transceiver, and backplane). It is intended for advanced users with appropriate technical background.

Reference:mxlink Utility - NVIDIA Docs

NEW QUESTION # 33

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

Answer: D

NEW QUESTION # 34

Which NVIDIA technology enables efficient scaling of AI workloads across multiple nodes in a data center?

- A. NVLink
- B. InfiniBand
- C. NVIDIA A100 Tensor Core GPUs
- D. CUDA

Answer: B

Explanation:

InfiniBand is a high-bandwidth, low-latency interconnect technology used in AI/ML workloads to enable fast communication between multiple nodes, making it easier to scale AI applications across a distributed infrastructure.

NEW QUESTION # 35

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