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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 (Q10-Q15):

NEW QUESTION # 10

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

Answer: D

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 # 11

You are designing a new AI data center for a research institution that requires high-performance computing for large-scale deep learning models. The institution wants to leverage NVIDIA's reference architectures for optimal performance. Which NVIDIA reference architecture would be most suitable for this high-performance AI research environment?

- A. NVIDIA LaunchPad
- **B. NVIDIA DGX SuperPOD**
- C. NVIDIA Base Command Platform
- D. NVIDIA DGX Cloud

Answer: B

Explanation:

The NVIDIA DGX SuperPOD is a turnkey AI supercomputing infrastructure designed for large-scale deep learning and high-performance computing workloads. It integrates multiple DGX systems with high-speed networking and storage solutions, providing a scalable and efficient platform for AI research institutions. The architecture supports rapid deployment and is optimized for training complex models, making it the ideal choice for environments demanding top-tier AI performance.

Reference: DGX SuperPOD Architecture - NVIDIA Docs

NEW QUESTION # 12

You are troubleshooting InfiniBand connectivity issues in a cluster managed by the NVIDIA Network Operator. You need to verify the status of the InfiniBand interfaces. Which command should you use to check the state and link layer of InfiniBand interfaces on a node?

- A. `ip link show dev ib0`
- B. `rdma show devices`
- **C. `ibstat -d mlx5_X`**
- D. `ifconfig ib0`

Answer: C

Explanation:

To check the status and link layer of InfiniBand interfaces, the `ibstat` command is used. For example:

```
ibstat -d mlx5_0
```

This command provides detailed information about the InfiniBand device, including its state (e.g., Active), physical state (e.g., LinkUp), and link layer (e.g., InfiniBand).

Reference: NVIDIA DGX BasePOD Deployment Guide - Network Operator Section

NEW QUESTION # 13

When designing a multi-tenancy East/West (E/W) fabric using Unified Fabric Manager (UFM), which method should be used?

- A. VLAN

- B. ROMA
- **C. Partition / PKey**
- D. VXLAN

Answer: C

Explanation:

In InfiniBand networks, Partitioning using Partition Keys (PKeys) is the standard method for implementing multi-tenancy and traffic isolation. PKeys allow administrators to define logical partitions within the fabric, ensuring that traffic is confined to designated groups of nodes. This mechanism is essential for creating secure and isolated environments in multi-tenant architectures.

The Unified Fabric Manager (UFM) leverages PKeys to manage these partitions effectively, enabling administrators to assign and control access rights across different tenants. This approach ensures that each tenant's traffic remains isolated, maintaining both security and performance integrity within the shared fabric.

Reference: NVIDIA UFM Enterprise User Manual v6.15.6-4

NEW QUESTION # 14

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

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

Answer: A

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:

- * A and C may not resolve conflicts.
- * D installs but doesn't remove conflicting packages.

Reference: DOCA SDK Installation - Uninstall OFED Requirement

NEW QUESTION # 15

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