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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	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	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	• 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 (Q34-Q39):

NEW QUESTION # 34

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

Answer: A

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 # 35

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

Answer: B

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 # 36

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

- A. VXLAN
- B. VLAN
- C. ROMA

- **D. Partition / PKey**

Answer: D

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 # 37

What is the purpose of WJH (What Just Happened)?

- A. Collate operating system logs and diagnose system crashes.
- B. Identify potential cyberattacks or unusual traffic patterns across the cluster.
- **C. Provide contextual information regarding dropped packets in order to aid debugging.**
- D. Send notifications of failed login attempts to a pre-defined Slack channel.

Answer: C

Explanation:

NVIDIA's What Just Happened (WJH) is a feature that provides real-time visibility into network problems by analyzing all packets passing through the switch and alerting on performance issues caused by packet drops, congestion, high latency, or misconfigurations.

WJH retains the last packets that were dropped from the switch with complete packet headers and the actual drop reason. This enhances the ability to debug network problems, identify affected flows, and decrease time-to-repair.

NEW QUESTION # 38

You are troubleshooting an InfiniBand network issue and need to check the status of the InfiniBand interfaces. Which command should you use to display the state, physical state, and link layer of InfiniBand interfaces?

- A. `cat /proc/net/ib/device`
- B. `sudo ibnodes -C mlx5_0`
- **C. `ibstat -d mlx5_X`**
- D. `ibv_devices -c mlx5_0`

Answer: C

Explanation:

The `ibstat` command is utilized to display the operational status of InfiniBand Host Channel Adapters (HCAs).

It provides detailed information, including the state (e.g., Active, Down), physical state (e.g., LinkUp, Polling), and link layer (e.g., InfiniBand, Ethernet) of each port on the HCA. This information is crucial for diagnosing connectivity issues and ensuring that the InfiniBand interfaces are functioning correctly.

Reference Extracts from NVIDIA Documentation:

* "The `ibstat` command displays the status of the host channel adapters (HCAs) in your InfiniBand fabric.

The status includes the HCAs' state, physical state, and link layer."

* "For proper operation, you are looking for 'State: Active' and 'Physical State: LinkUp'."

NEW QUESTION # 39

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