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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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q14-Q19):

NEW QUESTION # 14
You are implementing a multi-tenant environment on your Spectrum-X switches for different departments in your organization. You need to ensure that each department's network traffic is isolated and secure.
Which Spectrum-X security feature would be most effective in creating isolated network environments for each department?

- A. Enable Link Layer Discovery Protocol (LLDP)
- B. Configure Virtual Routing and Forwarding (VRF)
- C. Set UP Port Mirroring
- D. Implement Access Control Lists (ACLs)

Answer: B

Explanation:
Virtual Routing and Forwarding (VRF)is the most effective method to achievenetwork segmentation and isolationin a multi-tenant environment.
From theNVIDIA Cumulus Linux Documentation - VRF Section:
"VRF allows multiple instances of routing tables to coexist within the same switch, effectively isolating traffic between tenants or departments." Each department can:
* Operate in its own VRF domain
* Have independent routing tables
* Maintain strict separation of Layer 3 paths
Incorrect Options:
* A (Port Mirroring)- Used for traffic monitoring, not isolation.
* C (ACLs)- Useful for fine-grained filtering, but not scalable tenant isolation.
* D (LLDP)- Used for neighbor discovery, not security or isolation.
Reference: Cumulus Linux - VRF Support on Spectrum Switches

NEW QUESTION # 15
How is congestion evaluated in an NVIDIA Spectrum-X system?

- A. By monitoring the CPU and power usage of network devices.
- B. By analyzing the egress queue loads ensuring all ports are well-balanced.
- C. By assessing the physical distance between network devices.

- D. By measuring the number of connected devices in the network.

Answer: B

Explanation:
In NVIDIA Spectrum-X, congestion is evaluated based on egress queue loads. Spectrum-4 switches assess the load on each egress queue and select the port with the minimal load for packet transmission. This approach ensures that all ports are well-balanced, optimizing network performance and minimizing congestion.

NEW QUESTION # 16
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. Direct Memory Access (DMA)
- B. TCP/IP Offloading
- C. PKey
- D. SHARP

Answer: A

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 # 17
What is the purpose of WJH (What Just Happened)?

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

Answer: A

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 # 18
You are optimizing an AI workload that involves multiple GPUs across different nodes in a data center. The application requires both high-bandwidth GPU-to-GPU communication within nodes and efficient communication between nodes.
Which combination of NVIDIA technologies would best support this multi-node, multi-GPU AI workload?

- A. NVLink for both intra-node and inter-node GPU communication.
- B. PCIe for intra-node GPU communication and RoCE for inter-node communication.
- C. InfiniBand for both intra-node and inter-node GPU communication.
- D. NVLink for intra-node GPU communication and InfiniBand for inter-node communication.

Answer: D

Explanation:
For optimal performance in multi-node, multi-GPU AI workloads:
* NVLinkprovides high-speed, low-latency communication between GPUs within the same node.
* InfiniBandoffers efficient, scalable communication between nodes in a data center.Combining these technologies ensures both

intra-node and inter-node communication needs are effectively met.
Reference:NVIDIA NVLink & NVSwitch: Fastest HPC Data Center Platform

NEW QUESTION # 19

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