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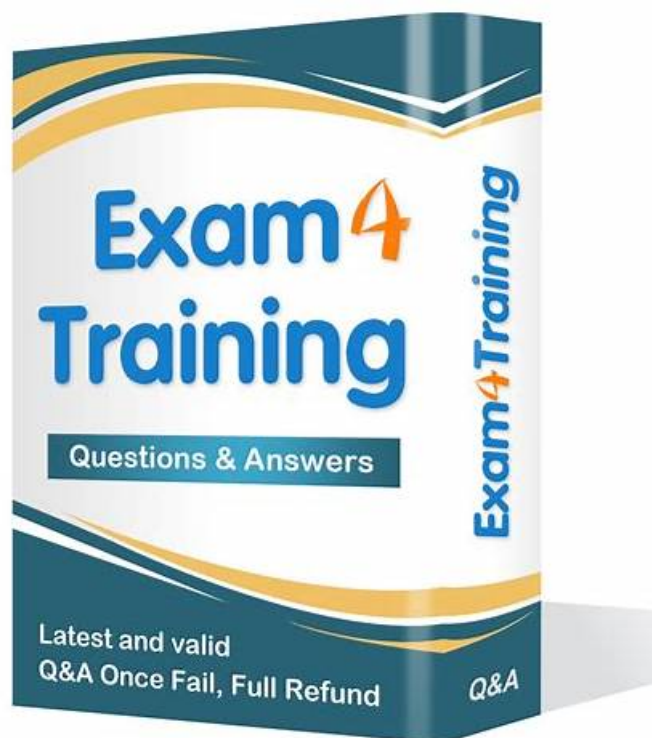
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NVIDIA NCP-AIN Exam Syllabus Topics:

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	• 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 3	• 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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q24-Q29):

NEW QUESTION # 24
When designing a multi-tenancy East/West (E/W) fabric using Unified Fabric Manager (UFM), which method should be used?

- A. ROMA
- B. VXLAN
- C. VLAN
- 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 # 25
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. rdma show devices
- B. ibstat -d mlx5_X
- C. ifconfig ib0
- D. ip link show dev ib0

Answer: B

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 # 26

In which mode of the BlueField DPU does the ARM system on the DPU control the NIC data path, but allow access to the DPU OS from the host?

- A. Restricted mode
- B. NIC mode
- C. DPU mode
- D. Separated Host mode

Answer: C

Explanation:

In DPU Mode, the ARM cores on BlueField down the NIC data path, while still allowing the host system to access the DPU OS (via OOB or virtio).

From NVIDIA BlueField Documentation:

"In DPU Mode, the data path is offloaded to the BlueField Arm cores, enabling advanced security and networking functions, while still allowing host access to the BlueField OS." This is different from:

* NIC Mode: Data path controlled by host, ARM cores inactive.

* Separated Host Mode: Complete isolation; host cannot access DPU OS.

* Restricted Mode: Limited host access to DPU OS, but without full offload capabilities.

Reference: NVIDIA BlueField DPU Architecture Guide - Operating Modes Section

NEW QUESTION # 27

What is the purpose of configuring NVUE to ignore Linux files?

- A. Improve Cumulus security by reducing the attack surface.
- B. Enable the persistent manipulation of specific settings using both NVUE and flat-file approaches.
- C. Enable pushing of configuration through Ansible template files.
- D. Reduce NVUE memory utilization to optimize performance.

Answer: B

Explanation:

Configuring NVUE to ignore certain underlying Linux files allows administrators to manage specific settings manually or through automation tools like Ansible without NVUE overwriting these configurations. This approach enables the persistent manipulation of settings using both NVUE and flat-file methods, providing flexibility in network management.

NEW QUESTION # 28

You are investigating a performance issue in a Spectrum-X network and suspect there might be congestion problems.

Which component executes the congestion control algorithm in a Spectrum-X environment?

- A. Spectrum-4 switches
- B. BlueField-3 SuperNICs
- C. NVIDIA NetQ
- D. NVIDIA DOCA software

Answer: B

Explanation:

In the Spectrum-X architecture, BlueField-3 SuperNICs are responsible for executing the congestion control algorithm. They handle millions of congestion control events per second with microsecond reaction latency, applying fine-grained rate decisions to manage data flow effectively. This ensures optimal network performance by preventing congestion and packet loss.

Reference: NVIDIA Spectrum-X Networking Platform

NEW QUESTION # 29

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