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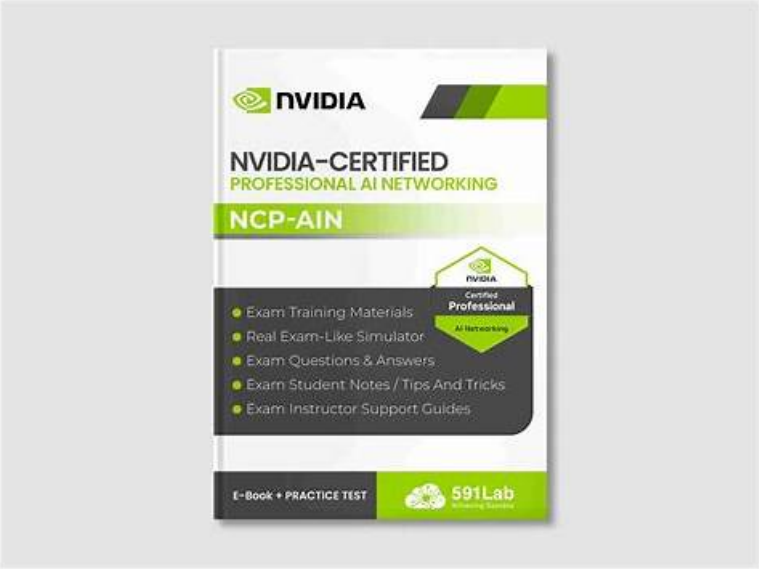

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NVIDIA NCP-AIN Exam Syllabus Topics:

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 (Q61-Q66):

NEW QUESTION # 61
What are two methods for accessing the operating system on a BlueField DPU?
Pick the 2 correct responses below

- A. Via the Redfish API
- B. Via rshim over a USB connection on the host
- C. Via the rshim interface over the PCIe bus
- D. Via the networking interfaces (data ports) in NIC mode

Answer: B,C

Explanation:
Accessing theBlueField DPU Operating System (OS)is possible throughrshim, either over PCIe or USB, and viaSSH through the OOB interfacewhen in DPU mode.
From theNVIDIA BlueField Software Documentation:
"You can access the BlueField OS through the rshim interface. The rshim module enables host-to-DPU communication either via PCIe (default) or USB."
* B. rshim over PCIe: Default when BlueField is installed in a host.
* D. rshim over USB: Useful for provisioning or systems without PCIe drivers.
Incorrect Options:
* A (NIC mode): BlueField acts as a transparent NIC; OS access is not available to the host.
* C (Redfish): Redfish is for out-of-band management, not direct OS-level access.
Reference: Accessing BlueField OS - rshim via PCIe and USB Methods

NEW QUESTION # 62
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. DPU mode
- B. Restricted mode
- C. Separated Host mode
- D. NIC mode

Answer: A

Explanation:
InDPU Mode, theARM cores on BlueFieldown theNIC data path, while still allowing thehost 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 # 63
How does Spectrum-X achieve network isolation for multiple tenants?

- A. Using manual configuration of access control lists (ACLs).
- B. By assigning unique IP address ranges to each tenant.
- C. By implementing a Layer 3 Virtual Network Identifier (L3VNI) per VRR
- D. By implementing physical network segmentation.

Answer: C

Explanation:
Spectrum-X achieves network isolation in multi-tenant environments by implementing Layer 3 Virtual Network Identifiers (L3VNIs) per Virtual Routing and Forwarding (VRF) instance. This approach allows each tenant to have a separate routing table and network segment, ensuring that traffic is isolated and secure between tenants.
Reference Extracts from NVIDIA Documentation:
* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

NEW QUESTION # 64
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 intra-node GPU communication and InfiniBand for inter-node communication.
- B. NVLink for both intra-node and inter-node GPU communication.
- C. InfiniBand for both intra-node and inter-node GPU communication.
- D. PCIe for intra-node GPU communication and RoCE for inter-node communication.

Answer: A

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 # 65
You are implementing a multi-tenant environment on your Spectrum-X switches for different departments in your organization. You need to ensure that eachdepartment'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. Implement Access Control Lists (ACLs)
- B. Enable Link Layer Discovery Protocol (LLDP)
- C. Configure Virtual Routing and Forwarding (VRF)
- D. Set UP Port Mirroring

Answer: C

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 # 66

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