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Our NVIDIA-Certified Professional AI Networking (NCP-AIN) exam dumps give help to give you an idea about the actual NVIDIA-Certified Professional AI Networking (NCP-AIN) exam. You can attempt multiple NVIDIA-Certified Professional AI Networking (NCP-AIN) exam questions on the software to improve your performance. You have the option to change the topic and set the time according to the actual NVIDIA NCP-AIN Exam.

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.

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NVIDIA-Certified Professional AI Networking Sample Questions (Q43-Q48):

NEW QUESTION # 43

What are the prerequisites for performing Flow Analysis with NetQ?

- A. Cumulus 5.x and later / Spectrum-2 and later / On-premises deployment
- B. Cumulus 5.x and later / Spectrum-2 and later / LCM enabled**
- C. Cumulus 4.x and later / Spectrum-2 and later / LCM enabled
- D. Cumulus 5.x and later / Spectrum-3 and later / On-premises deployment

Answer: B

Explanation:

To perform Flow Analysis with NetQ, the following prerequisites must be met:

* Cumulus Linux Version: NetQ Flow Analysis requires Cumulus Linux 5.x or later.

* Switch Hardware: The feature is supported on Spectrum-2 and later switch models.

* Lifecycle Management (LCM): LCM must be enabled to utilize Flow Analysis capabilities.

These requirements ensure compatibility and proper functioning of the Flow Analysis feature within NetQ.

Reference: NVIDIA NetQ Documentation - Flow Analysis Prerequisites

NEW QUESTION # 44

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. DPU mode**
- C. Separated Host mode
- D. NIC mode

Answer: B

NEW QUESTION # 45

In Cumulus Linux, which technology enables the ability to provide active-active redundancy to servers, without the need for direct

inter-switch links?

- A. MLAG
- **B. EVPN Multi-homing**
- C. VSS

Answer: B

Explanation:

EVPN Multi-homing enables active-active redundancy without inter-switch links by using overlay routing over VXLAN and distributed control plane using BGP EVPN.

From the official NVIDIA Cumulus Linux EVPN Multihoming Documentation:

"EVPN multihoming allows multiple Top-of-Rack (ToR) switches to connect to the same server while maintaining full layer-2 redundancy without the need for inter-switch links or traditional MLAG configuration." Key benefits:

- * Simplified topology (no ISL/peer-link needed)
- * BGP-based control plane
- * Fast convergence
- * Active-active links per host NIC

Incorrect Options:

- * MLAG requires ISL between switches and peer-link configuration.
- * VSS (Virtual Switching System) is a Cisco term, not supported in NVIDIA networking.

Reference: Cumulus Linux Docs - EVPN Multihoming

NEW QUESTION # 46

You are configuring an InfiniBand network for an AI cluster and need to install the appropriate software stack. Which NVIDIA software package provides the necessary drivers and tools for InfiniBand configuration in Linux environments?

- A. NVIDIA Container Runtime
- B. NVIDIA GPU Cloud
- C. CUDA Toolkit
- **D. MLNX_OFED**

Answer: D

Explanation:

MLNX_OFED (Mellanox OpenFabrics Enterprise Distribution) is an NVIDIA-tested and packaged version of the OpenFabrics Enterprise Distribution (OFED) for Linux. It provides the necessary drivers and tools to support InfiniBand and Ethernet interconnects using the same RDMA (Remote Direct Memory Access) and kernel bypass APIs. MLNX_OFED enables high-performance networking capabilities essential for AI clusters, including support for up to 400Gb/s InfiniBand and RoCE (RDMA over Converged Ethernet).

Reference Extracts from NVIDIA Documentation:

* "MLNX_OFED is an NVIDIA tested and packaged version of OFED that supports two interconnect types using the same RDMA (remote DMA) and kernel bypass APIs called OFED verbs - InfiniBand and Ethernet."

* "Up to 400Gb/s InfiniBand and RoCE (based on the RDMA over Converged Ethernet standard) over 10 /25/40/50/100/200/400GbE are supported."

NEW QUESTION # 47

How is congestion evaluated in an NVIDIA Spectrum-X system?

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

Answer: A

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 # 48

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