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NVIDIA NCP-AIN Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

NVIDIA-Certified Professional AI Networking Sample Questions (Q55-Q60):

NEW QUESTION # 55

When upgrading DOCA on a BlueField DPU, what command should first be run on the host?

- A. `sudo apt-get autoremove`
- B. `sudo apt-get install doca`
- C. `sudo apt-get upgrade doca`
- D. `/usr/sbin/ofed_uninstall.sh -force`

Answer: D

Explanation:

Before upgrading the DOCA SDK on a BlueField DPU, it is mandatory to uninstall the existing OFED drivers to prevent compatibility conflicts.

From the NVIDIA DOCA Installation Guide:

"Before upgrading DOCA or BlueField-related software, you must remove existing OFED packages using:

`/usr/sbin/ofed_uninstall.sh -force.`" This ensures:

- * Clean driver state
- * No residual kernel modules or userspace libraries
- * Proper registration of new DOCA/OFED versions

Incorrect Options:

- * A and C may not resolve conflicts.
- * D installs but doesn't remove conflicting packages.

Reference: DOCA SDK Installation - Uninstall OFED Requirement

NEW QUESTION # 56

You are concerned about potential security threats and unexpected downtime in your InfiniBand data center.

Which UFM platform uses analytics to detect security threats, operational issues, and predict network failures in InfiniBand data centers?

- A. Telemetry Platform
- B. Enterprise Platform
- C. **Cyber-AI Platform**
- D. Host Agent

Answer: C

Explanation:

The NVIDIA UFM Cyber-AI Platform is specifically designed to enhance security and operational efficiency in InfiniBand data centers. It leverages AI-powered analytics to detect security threats, operational anomalies, and predict potential network failures. By analyzing real-time telemetry data, it identifies abnormal behaviors and performance degradation, enabling proactive maintenance and threat mitigation.

This platform integrates with existing UFM Enterprise and Telemetry services to provide a comprehensive view of the network's health and security posture. It utilizes machine learning algorithms to establish baselines for normal operations and detect deviations that may indicate security breaches or hardware issues.

Reference: NVIDIA UFM Cyber-AI Documentation v2.9.1

NEW QUESTION # 57

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

Answer: D

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 # 58

You are deploying a Kubernetes cluster for AI workloads using NVIDIA Spectrum-X switches. You need to automate the deployment and management of networking components in this environment.

Which NVIDIA tool is specifically designed to automate the deployment and management of networking components in a Kubernetes cluster with Spectrum-X switches?

- A. **Network Operator**
- B. Mellanox OFED
- C. GPU Operator
- D. Container Runtime

Answer: A

Explanation:

The NVIDIA Network Operator is designed to simplify and automate the deployment and management of networking components in Kubernetes clusters, particularly those utilizing NVIDIA Spectrum-X switches. It manages the installation and configuration of necessary drivers, plugins, and other networking resources to enable features like RDMA and GPUDirect RDMA, which are essential for high-performance AI workloads.

By leveraging Kubernetes Custom Resource Definitions (CRDs) and the Operator Framework, the Network Operator ensures that networking components are consistently and correctly configured across the cluster, reducing manual intervention and potential configuration errors.

Reference: NVIDIA Network Operator Documentation

NEW QUESTION # 59

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

Answer: C,D

Explanation:

Accessing the BlueField DPU Operating System (OS) is possible through rshim, either over PCIe or USB, and via SSH through the OOB interface when in DPU mode.

From the NVIDIA 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."

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