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NVIDIA-Certified Professional AI Networking Sample Questions (Q42-Q47):

NEW QUESTION # 42

In order to configure RoCE on a Cumulus switch, which command should be used?

- A. `nv qos roce enable on`
- B. `nv set roce qos enable on`
- C. `nv set qos roce enable on`
- D. `nv roce qos enable on`

Answer: C

Explanation:

To enable RDMA over Converged Ethernet (RoCE) on a Cumulus switch, the correct command is:

```
nv set qos roce enable on
```

This command configures the Quality of Service (QoS) settings to support RoCE, ensuring that the necessary parameters for lossless Ethernet are applied.

Reference: NVIDIA Cumulus Linux Documentation - RDMA over Converged Ethernet (RoCE)

NEW QUESTION # 43

You are configuring the Unified Fabric Manager (UFM) for an InfiniBand fabric in a multi-tenant environment. You need to implement a solution that can detect potential security threats.

Which UFM feature uses analytics to detect security threats and predict network failures in InfiniBand data centers?

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

Answer: A

Explanation:

The UFM Cyber-AI platform is an advanced feature of NVIDIA's Unified Fabric Manager designed to enhance security and reliability in InfiniBand data centers. It leverages AI-powered analytics and machine learning techniques to detect security threats, operational anomalies, and predict potential network failures.

By analyzing real-time and historical telemetry data, UFM Cyber-AI can identify abnormal system behaviors, performance degradations, and usage profile changes. This proactive approach enables administrators to address issues before they escalate, ensuring the integrity and uptime of the data center.

Reference Extracts from NVIDIA Documentation:

* "The NVIDIA Unified Fabric Manager (UFM) Cyber-AI platform offers enhanced and real-time network telemetry, combined with AI-powered intelligence and advanced analytics. It enables IT managers to discover operational anomalies and even predict network failures."

* "UFM Cyber-AI uses machine learning (ML) techniques and AI models for anomaly detection and prediction to learn the lifecycle patterns of data center network components."

* "The NVIDIA UFM platforms revolutionize data center networking management by combining enhanced, real-time network telemetry with AI-powered cyber intelligence and analytics to support scale-out InfiniBand data centers. ... The UFM Cyber-AI platform takes fabric management to the next level by adding an analytics layer powered by artificial intelligence. It enables data center operators to proactively monitor and manage the InfiniBand fabric, predicting and preventing potential failures, optimizing performance, and enhancing security. By analyzing telemetry data and historical patterns, UFM Cyber-AI can detect anomalies that may indicate security threats or operational issues, providing actionable insights to prevent downtime."

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

Answer: A

Explanation:

In DPU Mode, the ARM cores on BlueField own 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 # 45

You are using NVIDIA Air to simulate a Spectrum-X network for AI workloads. You want to ensure that your network configurations are optimal before deployment.

Which NVIDIA tool can be integrated with Air to validate network configurations in the digital twin environment?

- **A. NetQ**
- B. GPU Cloud
- C. DOCA
- D. Spectrum-X Manager

Answer: A

Explanation:

NVIDIA NetQ is a highly scalable network operations toolset that provides visibility, troubleshooting, and validation of networks in real-time. It delivers actionable insights and operational intelligence about the health of data center networks—from the container or host all the way to the switch and port—enabling a NetDevOps approach.

NetQ can be used as the functional test platform for the network CI/CD in conjunction with NVIDIA Air.

Customers benefit from testing the new configuration with NetQ in the NVIDIA Air environment ("digital twin") and fix errors before deploying to their production.

NEW QUESTION # 46

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

Answer: A

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 # 47

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