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NVIDIA-Certified Professional AI Networking Sample Questions (Q57-Q62):

NEW QUESTION # 57

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

Answer: B

NEW QUESTION # 58

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

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

Answer: A

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 # 59

A cloud service provider is deploying the NVIDIA Spectrum-X Ethernet platform in a multi-tenant environment. To ensure the security and isolation of each tenant's AI workload, the provider wants to implement a feature that prevents unauthorized access to the network.

Which of the following features of the Spectrum-X platform should the provider implement?

- A. **Traffic Isolation**
- B. Congestion Control
- C. Streaming Telemetry
- D. Adaptive Routing

Answer: A

Explanation:

In multi-tenant AI cloud environments, ensuring that each tenant's workloads are isolated and secure is paramount. The NVIDIA Spectrum-X platform addresses this need through its Traffic Isolation capabilities.

This feature ensures that network resources are partitioned effectively, preventing unauthorized access and interference between tenants. By implementing Traffic Isolation, the provider can maintain strict boundaries between different tenant environments, ensuring both security and performance consistency.

Reference Extracts from NVIDIA Documentation:

* "Spectrum-X enhances multi-tenancy with performance isolation to ensure tenants' AI workloads perform optimally and consistently."

* "Spectrum-X utilizes the programmable congestion control function on the BlueField-3 hardware platform to accurately assess the congestion condition of the traffic path by using in-band telemetry information... to achieve the goal of performance isolation to ensure that each tenant gets the best expected performance in the cloud and is not negatively affected by congestion of other tenants."

NEW QUESTION # 60

Which of the following statements are true about AI workloads and adaptive routing?

Pick the 2 correct responses below.

- A. **AI workloads are made of a small number of volumetric flows called elephant flows.**
- B. AI workloads have very high entropy that helps spread traffic evenly without congestion.
- C. **Flow-based load balancing mechanisms increase congestion risk.**
- D. ECMP-based load balancing works best for AI workloads.

Answer: A,C

Explanation:

AI workloads, particularly in large-scale training scenarios, are characterized by a small number of high-bandwidth, long-lived flows known as "elephant flows." These flows can dominate network traffic and are prone to causing congestion if not managed effectively.

Traditional flow-based load balancing mechanisms, such as Equal-Cost Multipath (ECMP), distribute traffic based on flow hashes. However, in AI workloads with lowentropy (i.e., limited variability in flow characteristics), ECMP can lead to uneven traffic distribution and congestion on certain paths.

Adaptive routing techniques, which dynamically adjust paths based on real-time network conditions, are more effective in managing AI traffic patterns and mitigating congestion risks.

Reference: Powering Next-Generation AI Networking with NVIDIA SuperNICs

NEW QUESTION # 61

You suspect there might be connectivity issues in your InfiniBand fabric and need to perform a comprehensive check. Which tool should you use to run a full fabric diagnostic and generate a report?

- A. taping
- **B. ibdiagnet**
- C. ibnetdiscover
- D. perfquery

Answer: B

Explanation:

The ibdiagnet utility is a fundamental tool for InfiniBand fabric discovery, error detection, and diagnostics. It provides comprehensive reports on the fabric's health, including error reporting, switch and Host Channel Adapter (HCA) configuration dumps, various counters reported by the switches and HCAs, and parameters of devices such as switch fans, power supply units, cables, and PCI lanes. Additionally, ibdiagnet performs validation for Unicast Routing, Adaptive Routing, and Multicast Routing to ensure correctness and a credit- loop-free routing environment.

Reference Extracts from NVIDIA Documentation:

* "The ibdiagnet utility is one of the basic tools for InfiniBand fabric discovery, error detection and diagnostic. The output files of the ibdiagnet include error reporting, switch and HCA configuration dumps, various counters reported by the switches and the HCAs."

* "ibdiagnet also performs Unicast Routing, Adaptive Routing and Multicast Routing validation for correctness and credit-loop free routing."

NEW QUESTION # 62

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