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NVIDIA-Certified Professional AI Networking Sample Questions (Q35-Q40):

NEW QUESTION # 35

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

Answer: C

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 # 36

You are troubleshooting a Spectrum-X network and need to validate the fabric configuration. Which feature of Spectrum-X allows for automated fabric validation?

- A. NVIDIA DOCA
- B. **NVIDIA NetQ**
- C. RoCE Adaptive Routing
- D. RoCE Performance Isolation

Answer: B

Explanation:

NVIDIA NetQ is a network operations tool that provides real-time visibility and automated validation of the network fabric. It helps in identifying misconfigurations, monitoring network health, and ensuring that the fabric meets the required specifications for AI workloads.

Reference: NVIDIA Spectrum-X Documentation - Automated Fabric Validation

NEW QUESTION # 37

You are troubleshooting an InfiniBand network issue and need to check the status of the InfiniBand interfaces. Which command should you use to display the state, physical state, and link layer of InfiniBand interfaces?

- A. **ibstat -d mlx5_X**
- B. `ibv_devices -c mlx5_0`
- C. `cat /proc/net/ib/device`
- D. `sudo ibnodes -C mlx5_0`

Answer: A

Explanation:

The `ibstat` command is utilized to display the operational status of InfiniBand Host Channel Adapters (HCAs).

It provides detailed information, including the state (e.g., Active, Down), physical state (e.g., LinkUp, Polling), and link layer (e.g., InfiniBand, Ethernet) of each port on the HCA. This information is crucial for diagnosing connectivity issues and ensuring that the InfiniBand interfaces are functioning correctly.

Reference Extracts from NVIDIA Documentation:

- * "The ibstat command displays the status of the host channel adapters (HCAs) in your InfiniBand fabric. The status includes the HCAs' state, physical state, and link layer."
- * "For proper operation, you are looking for 'State: Active' and 'Physical State: LinkUp'."

NEW QUESTION # 38

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

Answer: D

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 # 39

You are tasked with troubleshooting a link flapping issue in an InfiniBand AI fabric. You would like to start troubleshooting from the physical layer.

What is the right NVIDIA tool to be used for this task?

- **A. mlxlink utility**
- B. tcpdump tool
- C. nvidia-smi utility

Answer: A

Explanation:

The mlxlink tool is used to check and debug link status and issues related to them. The tool can be used on different links and cables (passive, active, transceiver, and backplane). It is intended for advanced users with appropriate technical background.

Reference: mlxlink Utility - NVIDIA Docs

NEW QUESTION # 40

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