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NVIDIA-Certified Professional AI Networking Sample Questions (Q20-Q25):

NEW QUESTION # 20

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 # 21

You are optimizing an AI workload that involves multiple GPUs across different nodes in a data center. The application requires both high-bandwidth GPU-to-GPU communication within nodes and efficient communication between nodes.

Which combination of NVIDIA technologies would best support this multi-node, multi-GPU AI workload?

- A. PCIe for intra-node GPU communication and RoCE for inter-node communication.
- B. InfiniBand for both intra-node and inter-node GPU communication.
- C. NVLink for both intra-node and inter-node GPU communication.
- **D. NVLink for intra-node GPU communication and InfiniBand for inter-node communication.**

Answer: D

Explanation:

For optimal performance in multi-node, multi-GPU AI workloads:

* NVLink provides high-speed, low-latency communication between GPUs within the same node.

* InfiniBand offers efficient, scalable communication between nodes in a data center. Combining these technologies ensures both intra-node and inter-node communication needs are effectively met.

Reference: NVIDIA NVLink & NVSwitch: Fastest HPC Data Center Platform

NEW QUESTION # 22

What is the basic functionality of an IB Router?

- A. Connecting SAN to an InfiniBand fabric
- **B. Connecting two (or more) InfiniBand fabrics**
- C. Connecting NVLink domains to an InfiniBand fabric
- D. Connecting Ethernet switches to an InfiniBand fabric

Answer: B

Explanation:

An InfiniBand (IB) Router connects two or more InfiniBand subnets, making it possible for nodes in different subnets to communicate through route-managed communication.

From the official NVIDIA InfiniBand Routers Documentation:

"An InfiniBand router provides connectivity between two or more InfiniBand subnets, enabling communication between hosts that are not on the same subnet while preserving isolation and scalability."

* Ensures fabric scalability by allowing subnet segmentation.

* Uses LID routing across subnet managers (SMs).

* Essential in large clusters with thousands of nodes.

Incorrect Options:

* A and D are incorrect: InfiniBand does not connect directly to Ethernet or SANs without a gateway.

* C is unrelated: NVLink is a GPU interconnect, not tied to InfiniBand routers.

Reference: NVIDIA InfiniBand Routers Guide

NEW QUESTION # 23

What command sequence is used to identify the exact name of the server that runs as the master SM in a multi-node fabric?

- A. ibis
ibsim <LID>
- B. ibstat
sminfo <LID>
- C. sminfo
smpquery NI <LID>
- D. sminfo
smpquery ND <LID>

Answer: D

Explanation:

To identify the activeSubnet Manager (SM)node in an InfiniBand fabric, the correct command sequence is:

- * sminfo
- * Displays general information about the active SM in the fabric, including itsLID.
- * smpquery ND <LID>
- * Resolves theNode Description (ND)at the given LID, revealing the exact hostname or label of the SM server.

From the InfiniBand Tools Guide:

"The sminfo utility provides the LID of the master SM. Use smpquery ND <LID> to resolve the node name hosting the SM." This two-step approach is standard for locating and validating the SM identity in fabric diagnostics.

Incorrect Options:

- * B (NI)is an invalid query type.
- * CandDdo not identify SMs.

Reference: InfiniBand SM Tools - sminfo & smpquery Usage

NEW QUESTION # 24

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

Answer: D

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 # 25

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