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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q30-Q35):

NEW QUESTION # 30

When using an InfiniBand network for an AI infrastructure, which software component is necessary for the fabric to function?

- A. OpenSM
- B. MPI
- C. Verbs

Answer: A

Explanation:

OpenSM (Open Subnet Manager) is essential for InfiniBand networks, managing the fabric by discovering topology, configuring switches and host channel adapters (HCAs), and handling routing. Without it, the fabric cannot operate. Verbs is an API for RDMA, and MPI is a communication protocol, but OpenSM is the critical software component for functionality. (Reference: NVIDIA Networking Documentation, Section on InfiniBand Subnet Management)

NEW QUESTION # 31

A company is using a multi-GPU server for training a deep learning model. The training process is extremely slow, and after investigation, it is found that the GPUs are not being utilized efficiently. The system uses NVLink, and the software stack includes CUDA, cuDNN, and NCCL. Which of the following actions is most likely to improve GPU utilization and overall training performance?

- A. Disable NVLink and use PCIe for inter-GPU communication
- B. Optimize the model's code to use mixed-precision training
- C. Update the CUDA version to the latest release
- D. Increase the batch size

Answer: D

Explanation:

Increasing the batch size (D) is most likely to improve GPU utilization and training performance. Larger batch sizes allow GPUs to process more data per iteration, maximizing compute throughput and reducing idle time, especially with NVLink's high-bandwidth inter-GPU communication. This leverages CUDA, cuDNN, and NCCL efficiently, assuming memory capacity permits.

* Mixed-precision training (A) boosts efficiency but may not address low utilization if batch size is the bottleneck.

* Disabling NVLink (B) slows communication, worsening performance.

* Updating CUDA (C) might help compatibility but not utilization directly.

NVIDIA recommends batch size tuning for multi-GPU setups (D).

NEW QUESTION # 32

Your company is developing an AI application that requires seamless integration of data processing, model training, and deployment in a cloud-based environment. The application must support real-time inference and monitoring of model performance. Which combination of NVIDIA software components is best suited for this end-to-end AI development and deployment process?

- A. NVIDIA DeepOps + NVIDIA RAPIDS
- B. NVIDIA RAPIDS + NVIDIA Triton Inference Server + NVIDIA DeepOps
- C. NVIDIA Clara Deploy SDK + NVIDIA Triton Inference Server
- D. NVIDIA RAPIDS + NVIDIA TensorRT

Answer: B

Explanation:

The combination of NVIDIA RAPIDS + NVIDIA Triton Inference Server + NVIDIA DeepOps (D) is the most comprehensive

solution for an end-to-end AI workflow in a cloud-based environment requiring data processing, training, deployment, real-time inference, and monitoring. Let's break this down step-by-step:

* NVIDIA RAPIDS: This is an open-source suite of GPU-accelerated libraries (e.g., cuDF, cuML) designed to speed up data processing and machine learning workflows. It handles the initial data preparation and preprocessing stages by replacing CPU-based tools like pandas with GPU-accelerated equivalents, ensuring that large datasets are processed efficiently in the cloud. For an AI application, RAPIDS ensures that data pipelines feeding into training are optimized for GPU performance, reducing bottlenecks.

* NVIDIA Triton Inference Server: This server is purpose-built for deploying AI models in production, supporting multiple frameworks (e.g., TensorFlow, PyTorch, ONNX) and optimizing real-time inference. It provides features like dynamic batching, model versioning, and integrated monitoring (via metrics endpoints), which are critical for the application's requirements of real-time inference and performance tracking. Triton leverages NVIDIA GPUs to deliver low-latency, high-throughput inference, making it ideal for cloud deployment.

* NVIDIA DeepOps: This is a set of tools and scripts for provisioning, managing, and monitoring GPU clusters, particularly in cloud or on-premises environments. DeepOps simplifies the deployment of Kubernetes-based GPU clusters, ensuring that the infrastructure supporting RAPIDS and Triton is scalable, reliable, and monitored. It integrates with orchestration tools to automate resource allocation, making it a key component for seamless end-to-end management.

Why not the other options?

* A (DeepOps + RAPIDS): Covers infrastructure and data processing but lacks a dedicated inference solution for real-time deployment and monitoring.

* B (Clara Deploy SDK + Triton): Clara Deploy is healthcare-specific, not general-purpose, limiting its relevance here despite Triton's strength.

* C (RAPIDS + TensorRT): TensorRT optimizes inference but lacks the deployment management and monitoring capabilities of Triton, and it doesn't cover infrastructure orchestration.

Option D provides a full-stack solution, aligning with NVIDIA's cloud AI ecosystem for data processing (RAPIDS), inference (Triton), and infrastructure (DeepOps).

NEW QUESTION # 33

You are managing an AI data center where multiple GPUs are orchestrated across a large cluster to run various deep learning tasks. Which of the following actions best describes an efficient approach to cluster orchestration in this environment?

- A. Assign all jobs to the most powerful GPU in the cluster to maximize performance and minimize job completion time.
- B. Use a round-robin scheduling algorithm to distribute jobs evenly across all GPUs, regardless of their workload requirements.
- C. Prioritize job assignments to GPUs with the least power consumption to reduce energy costs.
- **D. Implement a Kubernetes-based orchestration system to dynamically allocate GPU resources based on workload demands.**

Answer: D

Explanation:

Implementing a Kubernetes-based orchestration system to dynamically allocate GPU resources based on workload demands is the most efficient approach for managing a multi-GPU AI cluster. Kubernetes, enhanced by NVIDIA's GPU Operator, supports dynamic scheduling, resource allocation, and scaling for deep learning tasks, ensuring optimal GPU utilization and adaptability. Option A (round-robin) ignores workload specifics, leading to inefficiency. Option B (least power) sacrifices performance for minor cost savings. Option D (most powerful GPU) creates bottlenecks and underutilizes other GPUs. NVIDIA's documentation on Kubernetes integration highlights its effectiveness for AI cluster orchestration.

NEW QUESTION # 34

Your organization has deployed a large-scale AI data center with multiple GPUs running complex deep learning workloads. You've noticed fluctuating performance and increasing energy consumption across several nodes. You need to optimize the data center's operation and improve energy efficiency while ensuring high performance. Which of the following actions should you prioritize to achieve optimized AI data center management and maintain efficient energy consumption?

- A. Install additional GPUs to distribute the workload more evenly
- B. Increase the number of active cooling systems to reduce thermal throttling
- **C. Implement GPU workload scheduling based on real-time performance metrics**
- D. Disable power management features on all GPUs to ensure maximum performance

Answer: C

Explanation:

Implementing GPU workload scheduling based on real-time performance metrics is the priority action to optimize AI data center management and improve energy efficiency while maintaining performance. Using tools like NVIDIA DCGM, this approach monitors metrics (e.g., power usage, utilization) and schedules workloads to balance load, reduce idle time, and leverage power-saving features (e.g., GPU Boost). This aligns with NVIDIA's "AI Infrastructure and Operations Fundamentals" for energy-efficient GPU management without sacrificing throughput.

Disabling power management (A) increases consumption unnecessarily. Adding GPUs (C) raises costs without addressing efficiency. More cooling (D) mitigates symptoms, not root causes. NVIDIA prioritizes dynamic scheduling for optimization.

NEW QUESTION # 35

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