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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q15-Q20):

### NEW QUESTION # 15

A financial services company is developing a machine learning model to detect fraudulent transactions in real- time. They need to manage the entire AI lifecycle, from data preprocessing to model deployment and monitoring. Which combination of NVIDIA software components should they integrate to ensure an efficient and scalable AI development and deployment process?

- A. NVIDIA DeepStream for data processing, CUDA for model training, and NGC for deployment.
- B. NVIDIA Metropolis for data collection, DIGITS for training, and Triton Inference Server for deployment.

- C. NVIDIA Clara for model training, TensorRT for data processing, and Jetson for deployment.
- **D. NVIDIA RAPIDS for data processing, TensorRT for model optimization, and Triton Inference Server for deployment.**

**Answer: D**

Explanation:

The AI lifecycle for real-time fraud detection needs efficient data preprocessing, model optimization, and deployment. NVIDIA RAPIDS accelerates data processing on GPUs, TensorRT optimizes models for low-latency inference, and Triton Inference Server scales deployment across platforms-perfect for financial use cases in NVIDIA DGX or cloud environments.

Clara (Option A) is healthcare-focused, not fraud. DeepStream (Option C) is video-centric, and CUDA isn't a full training solution. Metropolis (Option D) targets smart cities, and DIGITS is outdated. Option B aligns with NVIDIA's lifecycle strategy.

#### NEW QUESTION # 16

During a high-intensity AI training session on your NVIDIA GPU cluster, you notice a sudden drop in performance. Suspecting thermal throttling, which GPU monitoring metric should you prioritize to confirm this issue?

- A. GPU Clock Speed
- **B. GPU Temperature and Thermal Status**
- C. CPU Utilization
- D. Memory Bandwidth Utilization

**Answer: B**

Explanation:

Thermal throttling occurs when a GPU reduces its performance to prevent overheating, a common issue during high-intensity AI training workloads that push GPUs to their limits. The most direct way to confirm this is by monitoring the GPU Temperature and Thermal Status. NVIDIA provides tools like NVIDIA System Management Interface (nvidia-smi) and NVIDIA Data Center GPU Manager (DCGM) to track temperature in real-time. If temperatures approach or exceed the GPU's thermal threshold (typically around 85-90°C for NVIDIA GPUs like the A100), the GPU automatically downclocks to reduce heat, causing a performance drop.

Memory Bandwidth Utilization (Option A) indicates how efficiently memory is used but doesn't directly correlate with throttling. CPU Utilization (Option B) is unrelated to GPU thermal issues, as it reflects CPU load. GPU Clock Speed (Option D) might show a reduction due to throttling, but it's a symptom, not the root cause-temperature is the primary metric to check. NVIDIA's DGX systems emphasize thermal monitoring to maintain performance, making Option C the priority.

#### NEW QUESTION # 17

In an AI cluster, what is the importance of using Slurm?

- A. Slurm is used for data storage and retrieval in an AI cluster.
- **B. Slurm helps with managing job scheduling and resource allocation in the cluster.**
- C. Slurm is used for interconnecting nodes in an AI cluster.
- D. Slurm is responsible for AI model training and inference in an AI cluster.

**Answer: B**

Explanation:

Slurm (Simple Linux Utility for Resource Management) is a workload manager critical for AI clusters, handling job scheduling and resource allocation. It ensures tasks are assigned to available GPUs/CPUs efficiently, supporting scalable training and inference. It doesn't manage storage, perform training, or interconnect nodes-those are separate functions.

(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Slurm in AI Clusters)

#### NEW QUESTION # 18

You are responsible for managing an AI-driven fraud detection system that processes transactions in real-time. The system is hosted on a hybrid cloud infrastructure, utilizing both on-premises and cloud-based GPU clusters. Recently, the system has been missing fraud detection alerts due to delays in processing data from on-premises servers to the cloud, causing significant financial risk to the organization. What is the most effective way to reduce latency and ensure timely fraud detection across the hybrid cloud environment?

- A. Migrating the entire fraud detection workload to on-premises servers
- B. Increasing the number of on-premises GPU clusters to handle the workload locally
- C. Switching to a single-cloud provider to centralize all processing in the cloud
- **D. Implementing a low-latency, high-throughput direct connection between the on-premises data center and the cloud**

**Answer: D**

Explanation:

Implementing a low-latency, high-throughput direct connection (e.g., InfiniBand, Direct Connect) between on-premises and cloud GPU clusters reduces data transfer delays, ensuring timely fraud detection in a hybrid setup. Option A (more GPUs) doesn't address connectivity. Option C (all on-premises) limits scalability.

Option D (single cloud) sacrifices hybrid benefits. NVIDIA's hybrid cloud docs support optimized networking.

### NEW QUESTION # 19

Your organization runs multiple AI workloads on a shared NVIDIA GPU cluster. Some workloads are more critical than others. Recently, you've noticed that less critical workloads are consuming more GPU resources, affecting the performance of critical workloads. What is the best approach to ensure that critical workloads have priority access to GPU resources?

- **A. Implement GPU Quotas with Kubernetes Resource Management**
- B. Implement Model Optimization Techniques
- C. Use CPU-based Inference for Less Critical Workloads
- D. Upgrade the GPUs in the Cluster to More Powerful Models

**Answer: A**

Explanation:

Ensuring critical workloads have priority in a shared GPU cluster requires resource control. Implementing GPU Quotas with Kubernetes Resource Management, using NVIDIA GPU Operator, assigns resource limits and priorities, ensuring critical tasks (e.g., via pod priority classes) access GPUs first. This aligns with NVIDIA's cluster management in DGX or cloud setups, balancing utilization effectively.

CPU-based inference (Option B) reduces GPU load but sacrifices performance for non-critical tasks.

Upgrading GPUs (Option C) increases capacity, not priority. Model optimization (Option D) improves efficiency but doesn't enforce priority. Quotas are NVIDIA's recommended strategy.

### NEW QUESTION # 20

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