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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q18-Q23):

### NEW QUESTION # 18

In your AI infrastructure, several GPUs have recently failed during intensive training sessions. To proactively prevent such failures, which GPU metric should you monitor most closely?

- A. Power Consumption
- B. Frame Buffer Utilization
- **C. GPU Temperature**
- D. GPU Driver Version

**Answer: C**

Explanation:

GPU Temperature (A) should be monitored most closely to prevent failures during intensive training.

Overheating is a primary cause of GPU hardware failure, especially under sustained high workloads like deep learning. Excessive temperatures can degrade components or trigger thermal shutdowns. NVIDIA's System Management Interface (nvidia-smi) tracks temperature, with thresholds (e.g., 85-90°C for many GPUs) indicating risk. Proactive cooling adjustments or workload throttling can prevent damage.

\* Power Consumption(B) is related but less direct-high power can increase heat, but temperature is the failure trigger.

\* Frame Buffer Utilization(C) reflects memory use, not physical failure risk.

\* GPU Driver Version(D) affects functionality, not hardware health.

NVIDIA recommends temperature monitoring for reliability (A).

### NEW QUESTION # 19

A financial institution is implementing an AI-driven fraud detection system that needs to process millions of transactions daily in real-time. The system must rapidly identify suspicious activity and trigger alerts, while also continuously learning from new data to improve accuracy. Which architecture is most appropriate for this scenario?

- A. Single GPU server with local SSD storage for both training and inference
- **B. Hybrid setup with multi-GPU servers for training and edge devices for inference**
- C. Edge-only deployment with ARM processors for both training and inference
- D. CPU-based servers with cloud storage for centralized processing

**Answer: B**

Explanation:

A hybrid setup with multi-GPU servers (e.g., NVIDIA DGX) for training and edge devices (e.g., NVIDIA Jetson) for inference is most appropriate. Multi-GPU servers handle continuous training on large datasets with high compute power, while edge devices enable low-latency inference for real-time fraud detection, balancing scalability and speed. Option A (single GPU) lacks scalability. Option B (edge-only ARM) can't handle training demands. Option D (CPU-based) sacrifices GPU acceleration. NVIDIA's fraud detection architectures endorse this hybrid model.

### NEW QUESTION # 20

What is a key benefit of using NVIDIA GPUDirect RDMA in an AI environment?

- **A. It enables faster data transfers between GPUs and CPUs without involving the operating system**
- B. It reduces the latency and bandwidth overhead of remote memory access between GPUs.
- C. It increases the power efficiency and thermal management of GPUs.
- D. It allows multiple GPUs to share the same memory space without any synchronization.

**Answer: A**

Explanation:

NVIDIA GPUDirect RDMA allows network adapters to directly access GPU memory, bypassing the CPU and operating system kernel. This accelerates data transfers between GPUs and CPUs (or other devices), reducing latency and CPU overhead in AI workflows, such as multi-node training. It doesn't focus on power efficiency or unsynchronized memory sharing, making faster transfers its key benefit.

(Reference: NVIDIA GPUDirect RDMA Documentation, Overview Section)

### NEW QUESTION # 21

In a data center, what is the purpose and benefit of a DPU?

- A. A DPU is used for managing physical infrastructure, such as power and cooling.

- B. A DPU is responsible for managing network connections and security.
- **C. A DPU is designed to offload, accelerate, and isolate infrastructure workloads.**
- D. A DPU is responsible for providing backup and disaster recovery solutions.

**Answer: C**

Explanation:

A Data Processing Unit (DPU) is a programmable processor that offloads, accelerates, and isolates infrastructure workloads-like networking, storage, and security-from the CPU. This enhances performance, reduces CPU overhead, and improves security by segregating tasks, benefiting AI data centers. It doesn't handle backups or physical infrastructure directly, focusing instead on compute efficiency.

### NEW QUESTION # 22

You are assisting a senior data scientist in a project aimed at improving the efficiency of a deep learning model. The team is analyzing how different data preprocessing techniques impact the model's accuracy and training time. Your task is to identify which preprocessing techniques have the most significant effect on these metrics. Which method would be most effective in identifying the preprocessing techniques that significantly affect model accuracy and training time?

- A. Conduct a t-test between different preprocessing techniques.
- B. Create a pie chart showing the distribution of preprocessing techniques used.
- C. Use a line chart to plot training time for different preprocessing techniques.
- **D. Perform a multivariate regression analysis with preprocessing techniques as independent variables and accuracy/training time as dependent variables.**

**Answer: D**

Explanation:

Performing a multivariate regression analysis with preprocessing techniques as independent variables and accuracy/training time as dependent variables is the most effective method. This statistical approach quantifies the impact of each technique (e.g., normalization, augmentation) on both metrics, identifying significant contributors while accounting for interactions. NVIDIA's Deep Learning Performance Guide suggests such analyses for optimizing training pipelines on GPUs. Option A (line chart) visualizes trends but lacks statistical rigor. Option B (t-test) compares pairs, not multiple factors. Option D (pie chart) shows usage distribution, not impact. Regression aligns with NVIDIA's data-driven optimization strategies.

### NEW QUESTION # 23

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