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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q39-Q44):

### NEW QUESTION # 39

When deploying AI workloads on a cloud platform using NVIDIA GPUs, which of the following is the most critical consideration to ensure cost efficiency without compromising performance?

- A. Using spot instances where applicable for non-critical workloads
- B. Selecting the instance with the maximum GPU memory available
- C. Choosing a cloud provider that offers the lowest per-hour GPU cost
- D. Running all workloads on a single, high-performance GPU instance to minimize costs

**Answer: A**

Explanation:

Using spot instances where applicable for non-critical workloads is the most critical consideration for cost efficiency without

compromising performance. Spot instances, offered by cloud providers with NVIDIA GPUs (e.g., DGX Cloud), provide significant cost savings for interruptible tasks like batch training, while reserved instances ensure performance for critical workloads. Option A (single instance) limits scalability.

Option C (lowest cost) risks performance trade-offs. Option D (max memory) increases costs unnecessarily. NVIDIA's cloud deployment guides endorse spot instance strategies.

#### NEW QUESTION # 40

What enables moving data between GPU memory and local or remote storage without using the CPU?

- A. InfiniBand
- B. NVLink
- C. GPUDirect P2P
- D. **GPUDirect Storage**

**Answer: D**

Explanation:

NVIDIA GPUDirect Storage enables direct data paths between GPU memory and local or remote storage (e.g., NVMe over fabrics), bypassing the CPU and host memory. This maximizes throughput and minimizes latency in AI data pipelines. NVLink connects GPUs, GPUDirect P2P facilitates GPU-to-GPU transfers, and InfiniBand is a network fabric, but only GPUDirect Storage targets storage access.

(Reference: NVIDIA GPUDirect Storage Documentation, Overview Section)

#### NEW QUESTION # 41

Which is the best PUE value for a data center?

- A. **PUE of 1.2**
- B. PUE of 5.0
- C. PUE of 2.0
- D. PUE of 3.5

**Answer: A**

Explanation:

Power Usage Effectiveness (PUE) measures data center efficiency, with an ideal value of 1.0 (all power used by IT equipment). A PUE of 1.2, indicating only 20% overhead, is highly efficient and closer to the ideal than 2.0 (100% overhead), 3.5, or 5.0, making it the best among the options for energy-conscious AI deployments.

(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Data Center Efficiency)

#### NEW QUESTION # 42

When implementing an MLOps pipeline, which component is crucial for managing version control and tracking changes in model experiments?

- A. Continuous Integration (CI) System
- B. Artifact Repository
- C. Orchestration Platform
- D. **Model Registry**

**Answer: D**

Explanation:

A Model Registry is crucial for managing version control and tracking changes in model experiments within an MLOps pipeline. It serves as a centralized repository to store, version, and manage trained models, their metadata (e.g., hyperparameters, performance metrics), and experiment history, ensuring reproducibility and governance. NVIDIA's AI Enterprise suite, including tools like NVIDIA NGC, supports model registries for streamlined MLOps. Option A (CI System) focuses on code integration, not model tracking. Option C (Orchestration Platform) manages workflows, not versioning. Option D (Artifact Repository) stores general outputs but lacks model-specific features. NVIDIA's MLOps documentation emphasizes the registry's role in AI lifecycle management.

### NEW QUESTION # 43

You manage a large-scale AI infrastructure where several AI workloads are executed concurrently across multiple NVIDIA GPUs. Recently, you observe that certain GPUs are underutilized while others are overburdened, leading to suboptimal performance and extended processing times. Which of the following strategies is most effective in resolving this imbalance?

- A. Disabling GPU overclocking to normalize performance
- B. Reducing the batch size for all AI workloads
- C. Increasing the power limit on underutilized GPUs
- D. **Implementing dynamic GPU load balancing across the infrastructure**

**Answer: D**

Explanation:

Uneven GPU utilization in a multi-GPU infrastructure indicates poor workload distribution. Implementing dynamic GPU load balancing—using tools like NVIDIA Triton Inference Server or Kubernetes with GPU Operator—assigns tasks based on real-time GPU usage, ensuring balanced workloads and optimal performance. This strategy, common in DGX clusters, reduces processing times by preventing overburdening or idling.

Reducing batch size (Option B) lowers GPU demand uniformly but doesn't address imbalance and may reduce throughput. Increasing power limits (Option C) might boost underutilized GPUs slightly but doesn't fix distribution. Disabling overclocking (Option D) ensures consistency but not balance. Dynamic balancing is NVIDIA's recommended approach.

### NEW QUESTION # 44

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