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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q27-Q32):

NEW QUESTION # 27
A customer is evaluating an AI cluster for training and is questioning why they should use a large number of nodes. Why would multi-node training be advantageous?

- A. The model is being used for large-scale inference workloads.
- B. The model is being used by a large number of users.
- C. The model is too large to fit into GPU memory.

Answer: C

Explanation:

Multi-node training is advantageous when a model's size-its parameters, activations, and gradients- exceeds the memory capacity of a single GPU. By sharding the model across multiple nodes (using techniques like data parallelism or model parallelism), training becomes feasible and efficient. User count and inference scale are unrelated to training architecture needs, which focus on compute and memory distribution.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Multi-Node Training Benefits)

NEW QUESTION # 28
When implementing an MLOps pipeline, which component is crucial for managing version control and tracking changes in model experiments?

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

Answer: A

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 # 29
Your AI infrastructure team is managing a deep learning model training pipeline that uses NVIDIA GPUs.
During the model training phase, you observe inconsistent performance, with some GPUs underutilized while others are at full capacity. What is the most effective strategy to optimize GPU utilization across the training cluster?

- A. Turn off GPU auto-scaling to prevent dynamic resource allocation.
- B. Use NVIDIA's Multi-Instance GPU (MIG) feature to partition GPUs.
- C. Reduce the number of GPUs assigned to the training task.
- D. Reconfigure the model to use mixed precision training.

Answer: B

Explanation:
Using NVIDIA's Multi-Instance GPU (MIG) feature to partition GPUs is the most effective strategy to optimize utilization across a training cluster with inconsistent performance. MIG, available on NVIDIA A100 GPUs, allows a single GPU to be divided into isolated instances, each assigned to specific workloads, ensuring balanced resource use and preventing underutilization. Option A (mixed precision) improves performance but doesn't address uneven GPU usage. Option B (fewer GPUs) risks reducing throughput without solving the issue. Option D (disabling auto-scaling) limits adaptability, worsening imbalance.
NVIDIA's documentation on MIG highlights its role in optimizing multi-workload clusters, making it ideal for this scenario.

NEW QUESTION # 30
In an AI data center, ensuring the health and performance of GPU resources is critical. You notice that some workloads are unexpectedly failing or slowing down. Which monitoring approach would be most effective in proactively detecting and resolving these issues?

- A. Set up NVIDIA DCGM health checks and alerts.
- B. Monitor server uptime and network latency.
- C. Review system logs weekly.
- D. Deploy automatic workload restart mechanisms.

Answer: A

Explanation:
NVIDIA's Data Center GPU Manager (DCGM) is specifically designed to monitor GPU health and performance in real-time, making it the most effective solution for proactively detecting and resolving issues like workload failures or slowdowns. DCGM provides detailed telemetry, including GPU utilization, memory usage, temperature, and error states, and supports health checks and alerts to notify administrators of anomalies (e.g., GPU faults, thermal throttling). Option A (weekly log reviews) is reactive and too slow for real-time issue detection in an AI data center. Option B (monitoring uptime and latency) provides indirect metrics but lacks GPU-specific insights critical for diagnosing failures. Option D (automatic restarts) addresses symptoms without identifying root causes, risking recurring issues. NVIDIA's official DCGM documentation emphasizes its role in cluster management, offering automated diagnostics and integration with tools like Prometheus for proactive monitoring, ensuring optimal GPU performance.

NEW QUESTION # 31
Which of the following statements is true about Kubernetes orchestration?

- A. It has no inferencing capabilities.
- B. It is bare-metal based but it supports containers.
- C. It does load balancing to distribute traffic across containers.
- D. It has advanced scheduling capabilities to assign jobs to available resources.

Answer: C,D

Explanation:
Kubernetes excels in container orchestration with advanced scheduling (assigning workloads based on resource needs and availability) and load balancing (distributing traffic across pods via Services). It's not inherently bare-metal (it runs on various platforms), and inferencing capability depends on applications, not Kubernetes itself, making B and D the true statements. (Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Kubernetes Orchestration)

NEW QUESTION # 32
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