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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q11-Q16):

NEW QUESTION # 11
Your AI cluster is managed using Kubernetes with NVIDIA GPUs. Due to a sudden influx of jobs, your cluster experiences resource overcommitment, where more jobs are scheduled than the available GPU resources can handle. Which strategy would most effectively manage this situation to maintain cluster stability?

- A. Schedule Jobs in a Round-Robin Fashion Across Nodes
- B. Increase the Maximum Number of Pods per Node

- C. Use Kubernetes Horizontal Pod Autoscaler Based on Memory Usage
- D. Implement Resource Quotas and LimitRanges in Kubernetes

Answer: D

Explanation:
Implementing Resource Quotas and LimitRanges in Kubernetes is the most effective strategy to manage resource overcommitment and maintain cluster stability in an NVIDIA GPU cluster. Resource Quotas restrict the total amount of resources (e.g., GPU, CPU, memory) that can beconsumed by namespaces, preventing over-scheduling across the cluster. LimitRanges enforce minimum and maximum resource usage per pod, ensuring that individual jobs do not exceed available GPU resources. This approach provides fine-grained control and prevents instability caused by resource exhaustion.
Increasing the maximum number of pods per node (A) could worsen overcommitment by allowing more jobs to schedule without resource checks. Round-robin scheduling (B) lacks resource awareness and may lead to uneven GPU utilization. Using Horizontal Pod Autoscaler based on memory usage (C) focuses on scaling pods, not managing GPU-specific overcommitment. NVIDIA's "DeepOps" and "AI Infrastructure and Operations Fundamentals" documentation recommend Resource Quotas and LimitRanges for stable GPU cluster management in Kubernetes.

NEW QUESTION # 12
In your AI data center, you are responsible for deploying and managing multiple machine learning models in production. To streamline this process, you decide to implement MLOps practices with a focus on job scheduling and orchestration. Which of the following strategies is most aligned with achieving reliable and efficient model deployment?

- A. Manually trigger model deployments based on performance metrics
- B. Deploy models directly to production without staging environments
- C. Use a CI/CD pipeline to automate model training, validation, and deployment
- D. Schedule all jobs to run at the same time to maximize GPU utilization

Answer: C

Explanation:
Using a CI/CD pipeline to automate model training, validation, and deployment (A) is the most aligned with reliable and efficient MLOps practices. Continuous Integration/Continuous Deployment (CI/CD) automates the ML lifecycle-building, testing, and deploying models-ensuring consistency, reducing errors, and enabling rapid iteration. Tools like Kubeflow or Jenkins, integrated with NVIDIA GPU Operator, schedule jobs efficiently on GPU clusters, validating models in staging environments before production rollout.
* Running all jobs simultaneously(B) risks resource contention and instability, not efficiency.
* Manual triggering(C) is slow and error-prone, counter to MLOps automation goals.
* Direct deployment without staging(D) skips validation, risking unreliable models in production.
NVIDIA supports CI/CD for AI deployment in its MLOps guidelines (A).

NEW QUESTION # 13
Which solution should be recommended to support real-time collaboration and rendering among a team?

- A. A cluster of servers with NVIDIA T4 GPUs in each server.
- B. An NVIDIA Certified Server with RTX-based GPUs.
- C. A DGX SuperPOD.

Answer: B

Explanation:
An NVIDIA Certified Server with RTX GPUs is optimized for real-time collaboration and rendering, supporting NVIDIA Virtual Workstation (vWS) software. This setup enables low-latency, multi-user graphics workloads, ideal for team-based design or visualization. T4 GPUs focus on inference efficiency, and DGX SuperPOD targets large-scale AI training, not collaborative rendering.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on GPU Selection for Collaboration)

NEW QUESTION # 14
Which statement correctly differentiates between AI, machine learning, and deep learning?

- A. Deep learning is a broader concept than machine learning, which is a specialized form of AI.
- B. Machine learning is the same as AI, and deep learning is simply a method within AI that doesn't involve machine learning.
- C. Machine learning is a type of AI that only uses linear models, while deep learning involves non-linear models exclusively.
- D. AI is a broad field encompassing various technologies, including machine learning, which focuses on data-driven models, and deep learning, a subset of machine learning using neural networks.

Answer: D

Explanation:
AI is a broad field encompassing technologies for intelligent systems. Machine learning (ML), a subset, uses data-driven models, while deep learning (DL), a subset of ML, employs neural networks for complex tasks.
NVIDIA's ecosystem (e.g., cuDNN for DL, RAPIDS for ML) reflects this hierarchy, supporting all levels.
Option A misaligns ML and DL. Option C reverses the subset order. Option D oversimplifies ML and DL distinctions. Option B matches NVIDIA's conceptual framework.

NEW QUESTION # 15
You are leading a project to implement a real-time fraud detection system for a financial institution. The system needs to analyze transactions in real-time using a deep learning model that has been trained on large datasets. The inference workload must be highly scalable and capable of processing thousands of transactions per second with minimal latency. Your deployment environment includes NVIDIA A100 GPUs in a Kubernetes-managed cluster. Which approach would be most suitable to deploy and manage your deep learning inference workload?

- A. NVIDIA TensorRT Standalone
- B. NVIDIA CUDA Toolkit with Docker
- C. Apache Kafka with NVIDIA GPUs
- D. NVIDIA Triton Inference Server with Kubernetes

Answer: D

Explanation:
NVIDIA Triton Inference Server with Kubernetes is the most suitable approach for deploying and managing a real-time fraud detection system on NVIDIA A100 GPUs. Triton provides a scalable, low-latency inference platform with features like dynamic batching and model management, ideal for processing thousands of transactions per second. Integration with Kubernetes (via NVIDIA GPU Operator) ensures high availability, scalability, and orchestration in a cluster, as outlined in NVIDIA's "Triton Inference Server Documentation" and "DeepOps" resources. This meets the financial institution's needs for real-time, high-throughput inference.
TensorRT standalone (A) optimizes models but lacks deployment scalability. Kafka with GPUs (C) is a messaging system, not an inference solution. CUDA with Docker (D) is a development tool, not a production deployment platform. Triton with Kubernetes is NVIDIA's recommended approach.

NEW QUESTION # 16
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