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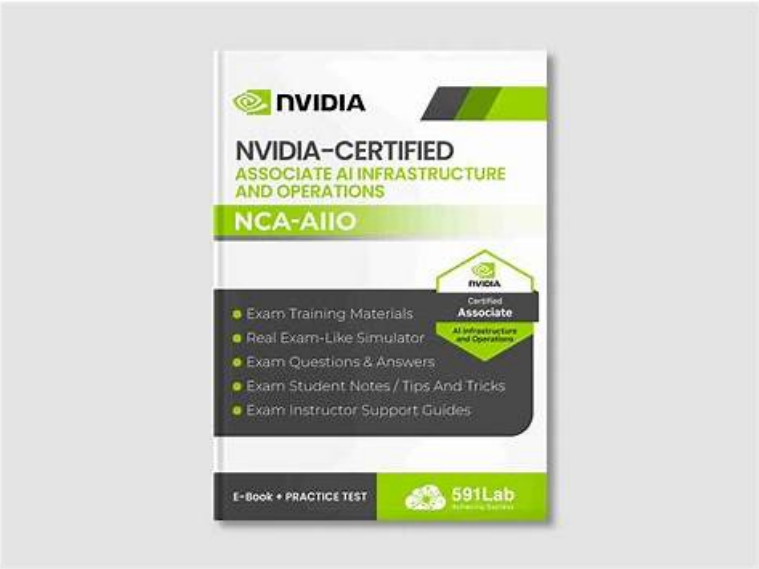

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q22-Q27):

NEW QUESTION # 22
Your organization is planning to deploy an AI solution that involves large-scale data processing, training, and real-time inference in a cloud environment. The solution must ensure seamless integration of data pipelines, model training, and deployment. Which combination of NVIDIA software components will best support the entire lifecycle of this AI solution?

- A. NVIDIA Triton Inference Server + NVIDIA NGC Catalog
- B. NVIDIA RAPIDS + NVIDIA TensorRT
- C. NVIDIA TensorRT + NVIDIA DeepStream SDK
- D. NVIDIA RAPIDS + NVIDIA Triton Inference Server + NVIDIA NGC Catalog

Answer: D

Explanation:
A comprehensive AI lifecycle in the cloud-data processing, training, and inference-requires tools covering each stage. NVIDIA RAPIDS accelerates data processing and analytics on GPUs, streamlining pipelines for large-scale data. NVIDIA Triton Inference Server manages real-time inference deployment across diverse models and platforms. The NVIDIA NGC Catalog provides pre-trained models, containers, and resources, integrating training and deployment workflows. Together, they form a seamless solution, leveraging NVIDIA' s cloud offerings like DGX Cloud.
TensorRT + DeepStream (Option B) focuses on inference and video, not full lifecycle support. Triton + NGC (Option C) lacks data processing depth. RAPIDS + TensorRT (Option D) omits deployment management.
Option A is NVIDIA's holistic approach for end-to-end AI.

NEW QUESTION # 23
You are deploying a large-scale AI model training pipeline on a cloud-based infrastructure that uses NVIDIA GPUs. During the training, you observe that the system occasionally crashes due to memory overflows on the GPUs, even though the overall GPU memory usage is below the maximum capacity. What is the most likely cause of the memory overflows, and what should youdo to mitigate this issue?

- A. The system is encountering fragmented memory; enable unified memory management
- B. The CPUs are overloading the GPUs; allocate more CPU cores to handle preprocessing
- C. The GPUs are not receiving data fast enough; increase the data pipeline speed
- D. The model's batch size is too large; reduce the batch size

Answer: A

Explanation:
The system encountering fragmented memory (D) is the most likely cause of memory overflows despite overall usage being below capacity. GPU memory fragmentation occurs when memory allocation/deallocation patterns (e.g., from dynamic tensor operations) leave unusable gaps, preventing allocation of contiguous blocks needed for certain operations. Enabling unified memory management (via CUDA's Unified Memory) mitigates this by allowing the system to manage memory dynamically between CPU and GPU, reducing fragmentation and overflows.
* Large batch size(A) could exceed memory, but usage below capacity suggests fragmentation, not total size, is the issue.
* Slow data pipeline(B) causes idling, not memory overflows.
* CPU overload(C) affects preprocessing, not GPU memory allocation directly.
NVIDIA's CUDA documentation recommends Unified Memory for such scenarios (D).

NEW QUESTION # 24
Your organization has deployed a large-scale AI data center with multiple GPUs running complex deep learning workloads. You've noticed fluctuating performance and increasing energy consumption across several nodes. You need to optimize the data center's operation and improve energy efficiency while ensuring high performance. Which of the following actions should you prioritize to achieve optimized AI data center management and maintain efficient energyconsumption?

- A. Install additional GPUs to distribute the workload more evenly
- B. Increase the number of active cooling systems to reduce thermal throttling
- C. Disable power management features on all GPUs to ensure maximum performance
- D. Implement GPU workload scheduling based on real-time performance metrics

Answer: D

Explanation:
Implementing GPU workload scheduling based on real-time performance metrics is the priority action to optimize AI data center management and improve energy efficiency while maintaining performance. Using tools like NVIDIA DCGM, this approach monitors metrics (e.g., power usage, utilization) and schedules workloads to balance load, reduce idle time, and leverage power-saving features (e.g., GPU Boost). This aligns with NVIDIA's "AI Infrastructure and Operations Fundamentals" for energy-efficient GPU management without sacrificing throughput.
Disabling power management (A) increases consumption unnecessarily. Adding GPUs (C) raises costs without addressing efficiency. More cooling (D) mitigates symptoms, not root causes. NVIDIA prioritizes dynamic scheduling for optimization.

NEW QUESTION # 25
Your organization is setting up an AI model deployment pipeline that requires frequent updates. The team needs to ensure minimal downtime during model updates, version control, and monitoring of the models in production. Which software component would be most suitable to handle these requirements?

- A. NVIDIA TensorRT
- B. NVIDIA Triton Inference Server
- C. NVIDIA NGC Catalog
- D. NVIDIA DIGITS

Answer: B

Explanation:
NVIDIA Triton Inference Server is the most suitable software component for an AI model deployment pipeline requiring frequent updates, minimal downtime, version control, and monitoring. Triton supports dynamic model loading, allowing updates without restarting the server, ensuring minimal downtime. It provides version control through model repositories (e.g., multiple model versions in a file system) and integrates with monitoring tools like Prometheus for real-time metrics. This aligns with production-grade AI deployment needs, as detailed in NVIDIA's "Triton Inference Server Documentation." NGC Catalog (A) is a model and container repository, not a deployment tool. TensorRT (B) optimizes inference but lacks deployment management features. DIGITS (D) is a training tool, not for production deployment. Triton is NVIDIA's recommended solution for these requirements.

NEW QUESTION # 26
Your AI data center is experiencing fluctuating workloads where some AI models require significant computational resources at specific times, while others have a steady demand. Which of the following resource management strategies would be most effective in ensuring efficient use of GPU resources across varying workloads?

- A. Implement NVIDIA MIG (Multi-Instance GPU) for Resource Partitioning
- B. Upgrade All GPUs to the Latest Model
- C. Use Round-Robin Scheduling for Workloads
- D. Manually Schedule Workloads Based on Expected Demand

Answer: A

Explanation:
Implementing NVIDIA MIG (Multi-Instance GPU) for resource partitioning is the most effective strategy for ensuring efficient GPU resource use across fluctuating AI workloads. MIG, available on NVIDIA A100 GPUs, allows a single GPU to be divided into isolated instances with dedicated memory and compute resources. This enables dynamic allocation tailored to workload demands-assigning larger instances to resource-intensive tasks and smaller ones to steady tasks-maximizing utilization and flexibility. NVIDIA's "MIG User Guide" and "AI Infrastructure and OperationsFundamentals" emphasize MIG's role in optimizing GPU efficiency in data centers with variable workloads.
Round-robin scheduling (A) lacks resource awareness, leading to inefficiency. Manual scheduling (C) is impractical for dynamic workloads. Upgrading GPUs (D) increases capacity but doesn't address allocation efficiency. MIG is NVIDIA's recommended solution for this scenario.

NEW QUESTION # 27
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