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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q41-Q46):

NEW QUESTION # 41
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. Upgrade All GPUs to the Latest Model
- B. Manually Schedule Workloads Based on Expected Demand
- C. Use Round-Robin Scheduling for Workloads
- D. Implement NVIDIA MIG (Multi-Instance GPU) for Resource Partitioning

Answer: D

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 # 42
You are working on a project that involves analyzing a large dataset of satellite images to detect deforestation.
The dataset is too large to be processed on a single machine, so you need to distribute the workload across multiple GPU nodes in a high-performance computing cluster. The goal is to use image segmentation techniques to accurately identify deforested areas. Which approach would be most effective in processing this large dataset of satellite images for deforestation detection?

- A. Using a CPU-based image processing library to preprocess the images before segmentation
- B. Manually reviewing the images and marking deforested areas for analysis
- C. Implementing a distributed GPU-accelerated Convolutional Neural Network (CNN) for image segmentation
- D. Storing the images in a traditional relational database for easy access and querying

Answer: C

Explanation:
Processing a large dataset of satellite images for deforestation detection requires scalable, high-performance computing. A distributed GPU-accelerated CNN, optimized for image segmentation (e.g., U-Net or Mask R- CNN), leverages multiple NVIDIA GPUs across nodes to handle the computational load. NVIDIA technologies like NCCL (for inter-GPU communication) and DALI (for data loading) enable efficient distributed training and inference, ensuring accuracy and speed. This approach aligns with NVIDIA's DGX and HPC solutions for large-scale image analysis tasks.
A relational database (Option B) is suited for structured data, not raw image processing, and lacks GPU acceleration. CPU-based preprocessing (Option C) is too slow for large-scale segmentation compared to GPU acceleration. Manual review (Option D) is impractical for massive datasets. Distributed CNNs are NVIDIA's recommended method for such workloads.

NEW QUESTION # 43
You are tasked with deploying a real-time recommendation system for an e-commerce platform using NVIDIA AI infrastructure. The system needs to process millions of user interactions per second to provide personalized recommendations instantly. Which NVIDIA solution is best suited to handle this workload efficiently?

- A. NVIDIA Clara
- B. NVIDIA DGX Station
- C. NVIDIA Triton Inference Server
- D. NVIDIA TensorRT

Answer: C

Explanation:
NVIDIA Triton Inference Server is the best-suited solution for deploying a real-time recommendation system processing millions of user interactions per second. Triton is designed for high-throughput, low-latency inference in production, supporting multiple models and frameworks (e.g., TensorFlow, PyTorch) on NVIDIA GPUs. It offers dynamic batching, model versioning, and integration with Kubernetes, enabling scalable, real-time personalization, as detailed in NVIDIA's "Triton Inference Server Documentation." This aligns with e-commerce needs for instant recommendations under heavy load.
NVIDIA Clara (A) is healthcare-focused, not suited for e-commerce. DGX Station (B) is a workstation for development, not production inference. TensorRT (D) optimizes inference but lacks Triton's deployment and scalability features. Triton is NVIDIA's go-to for such workloads.

NEW QUESTION # 44
When virtualizing an infrastructure that includes GPUs to support AI workloads, what is one critical factor to consider to ensure optimal performance?

- A. Assign more storage to each virtual machine
- B. Use GPU sharing technologies, like NVIDIA GRID, to allocate resources dynamically
- C. Increase the number of virtual CPUs assigned to each VM
- D. Disable hyper-threading on the host machine

Answer: B

Explanation:
Using GPU sharing technologies like NVIDIA GRID (A) is a critical factor for optimal performance in a virtualized AI infrastructure. NVIDIA GRID (or its successor, NVIDIA vGPU) enables dynamic allocation of GPU resources across virtual machines (VMs), allowing multiple AI workloads to share a physical GPU efficiently. This ensures high performance by providing each VM with direct GPU acceleration tailored to its needs, while maximizing resource utilization-keyfor AI tasks like training or inference.
* Assigning more storage(B) improves I/O but doesn't directly enhance GPU performance for compute- heavy AI workloads.
* Increasing virtual CPUs(C) boosts CPU capacity, but AI workloads rely primarily on GPU acceleration, not vCPUs.
* Disabling hyper-threading(D) might reduce CPU contention but doesn't address GPU virtualization needs.
NVIDIA's virtualization documentation emphasizes vGPU/GRID for AI performance (A).

NEW QUESTION # 45
An organization is deploying a large-scale AI model across multiple NVIDIA GPUs in a data center. The model training requires extensive GPU-to-GPU communication to exchange gradients. Which of the following networking technologies is most appropriate for minimizing communication latency and maximizing bandwidth between GPUs?

- A. Ethernet
- B. InfiniBand
- C. Fibre Channel
- D. Wi-Fi

Answer: B

Explanation:
InfiniBand is the most appropriate networking technology for minimizing communication latencyand maximizing bandwidth between NVIDIA GPUs during large-scale AI model training. InfiniBand offers ultra- low latency and high throughput (up to 200 Gb/s or more), supporting RDMA for direct GPU-to-GPU data transfer, which is critical for exchanging gradients in distributed training. NVIDIA's "DGX SuperPOD Reference Architecture" and "AI Infrastructure for Enterprise" documentation recommend InfiniBand for its performance in GPU clusters like DGX systems.
Ethernet (B) is slower and higher-latency, even with high-speed variants. Wi-Fi (C) is unsuitable for data center performance needs. Fibre Channel (D) is storage-focused, not optimized for GPU communication.
InfiniBand is NVIDIA's standard for AI training networks.

NEW QUESTION # 46
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