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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q21-Q26):

NEW QUESTION # 21
You are tasked with deploying multiple AI workloads in a data center that supports both virtualized and non- virtualized environments. To maximize resource efficiency and flexibility, which of the following strategies would be most effective for running AI workloads in a virtualized environment?

- A. Run all AI workloads on bare metal servers without virtualization to maximize performance
- B. Deploy each AI workload in a separate virtual machine (VM) to isolate resources and prevent interference
- C. Use a single VM to run all AI workloads sequentially, reducing the need for resource scheduling
- D. Use containerization within a single VM to run multiple AI workloads, leveraging shared resources efficiently

Answer: D

Explanation:

Using containerization within a single VM to run multiple AI workloads is the most effective strategy for maximizing resource efficiency and flexibility in a virtualized environment. Containers (e.g., Docker) allow multiple workloads to share GPU resources via NVIDIA's container runtime, offering lightweight isolation and efficient resource utilization compared to separate VMs. This approach, supported by NVIDIA's
"DeepOps" and "GPU Virtualization" documentation, leverages Kubernetes or similar orchestration for scalability and flexibility while maintaining performance on virtualized GPUs (e.g., via NVIDIA GPU Operator).
Separate VMs (B) waste resources due to overhead. Sequential execution in one VM (C) sacrificesparallelism, reducing efficiency. Bare metal (D) maximizes performance but lacks virtualization flexibility. NVIDIA recommends containerization for virtualized AI efficiency.

NEW QUESTION # 22
When monitoring a GPU-based workload, what is GPU utilization?

- A. The GPU memory in use compared to available GPU memory.
- B. The percentage of time the GPU is actively processing data.
- C. The maximum amount of time a GPU will be used for a workload.
- D. The number of GPU cores available to the workload.

Answer: B

Explanation:
GPU utilization is defined as the percentage of time the GPU's compute engines are actively processing data, reflecting its workload intensity over a period (e.g., via nvidia-smi). It's distinct from memory usage (a separate metric), core counts, or maximum runtime, providing a direct measure of compute activity.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on GPU Monitoring)

NEW QUESTION # 23
You are optimizing an AI data center that uses NVIDIA GPUs for energy efficiency. Which of the following practices would most effectively reduce energy consumption while maintaining performance?

- A. Enabling NVIDIA's Adaptive Power Management features
- B. Utilizing older GPUs to reduce power consumption
- C. Running all GPUs at maximum clock speeds
- D. Disabling power capping to allow full power usage

Answer: A

Explanation:
Enabling NVIDIA's Adaptive Power Management features (B) is the most effective practice to reduce energy consumption while maintaining performance. NVIDIA GPUs, such as the A100, support power management capabilities that dynamically adjust power usage based on workload demands. Features like Multi-Instance GPU (MIG) and power capping allow the GPU to scale clock speeds and voltage efficiently, minimizing energy waste during low-utilization periods without sacrificing performance for AI tasks. This is managed via tools like NVIDIA System Management Interface (nvidia-smi).
* Disabling power capping(A) allows GPUs to consume maximum power continuously, increasing energy use unnecessarily.
* Running GPUs at maximum clock speeds(C) boosts performance but significantly raises power consumption, countering efficiency goals.
* Utilizing older GPUs(D) may lower power draw but reduces performance and efficiency due to outdated architecture (e.g., less efficient FLOPS/watt).
NVIDIA's documentation emphasizes Adaptive Power Management for energy-efficient AI data centers (B).

NEW QUESTION # 24
A healthcare company is using NVIDIA AI infrastructure to develop a deep learning model that can analyze medical images and detect anomalies. The team has noticed that the model performs well during training but fails to generalize when tested on new, unseen data. Which of the following actions is most likely to improve the model's generalization?

- A. Use a more complex neural network architecture
- B. Reduce the number of training epochs

- C. Apply data augmentation techniques
- D. Increase the batch size during training

Answer: C

Explanation:
Applyingdata augmentation techniques(C) is the most likely action to improve the model's generalization on unseen medical imaging data. Let's dive into why:
* What is generalization?: Generalization is a model's ability to perform well on new, unseen data, avoiding overfitting to the training set. Overfitting occurs when a model memorizes training data (e.g., specific image patterns) rather than learning robust features (e.g., anomaly shapes).
* Role of data augmentation: Augmentation artificially expands the training dataset by applying transformations (e.g., rotations, flips, brightness changes) to medical images, simulating real-world variability (e.g., different lighting, angles in scans). This forces the model to learn invariant features, improving its performance on diverse test data. For example, rotating an X-ray image ensures the model recognizes anomalies regardless of orientation.
* Implementation: NVIDIA's DALI or cuAugment can GPU-accelerate augmentation,integrating seamlessly with training pipelines on NVIDIA infrastructure. Techniques like random crops or noise injection are particularly effective for medical imaging.
* Evidence: The symptom-high training accuracy, low test accuracy-indicates overfitting, a common issue in deep learning, especially with limited or uniform datasets like medical images. Augmentation is a standard remedy.
Why not the other options?
* A (Fewer epochs): Reduces training time, potentially underfitting, not addressing overfitting.
* B (Larger batch size): Improves training stability but doesn't inherently enhance generalization; it may even mask overfitting by smoothing gradients.
* D (More complex model): Increases capacity, worsening overfitting if data variety isn't addressed.
NVIDIA's healthcare AI resources endorse augmentation for robust models (C).

NEW QUESTION # 25
Your AI data center is running multiple high-performance GPU workloads, and you notice that certain servers are being underutilized while others are consistently at full capacity, leading to inefficiencies. Which of the following strategies would be most effective in balancing the workload across your AI data center?

- A. Use horizontal scaling to add more servers
- B. Increase cooling capacity in the data center
- C. Implement NVIDIA GPU Operator with Kubernetes for automatic resource scheduling
- D. Manually reassign workloads based on current utilization

Answer: C

Explanation:
The NVIDIA GPU Operator with Kubernetes (C) automates resource scheduling and workload balancing across GPU clusters. It integrates GPU awareness into Kubernetes, dynamically allocating workloads to underutilized servers based on real-time utilization, priority, and resource demands. This ensures efficient use of all GPUs, reducing inefficiencies without manual intervention.
* Horizontal scaling(A) adds more servers, increasing capacity but not addressing the imbalance- underutilized servers would remain inefficient.
* Manual reassignment(B) is impractical for large-scale, dynamic workloads and lacks scalability.
* Increasing cooling capacity(D) improves hardware reliability but doesn't balanceworkloads.
The GPU Operator's automation and integration with Kubernetes make it the most effective solution (C).

NEW QUESTION # 26
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