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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q28-Q33):

NEW QUESTION # 28
When monitoring a GPU-based workload, what is GPU utilization?

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

Answer: D

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 # 29
You are managing a data center running numerous AI workloads on NVIDIA GPUs. Recently, some of the GPUs have been showing signs of underperformance, leading to slower job completion times. You suspect that resource utilization is not optimal. You need to implement monitoring strategies to ensure GPUs are effectively utilized and to diagnose any underperformance. Which of the following metrics is most critical to monitor for identifying underutilized GPUs in your data center?

- A. System Uptime
- B. Network Bandwidth Utilization
- C. GPU Core Utilization
- D. GPU Memory Usage

Answer: C

Explanation:
GPU Core Utilization is the most critical metric for identifying underutilized GPUs in an AI data center. This metric, accessible via NVIDIA's nvidia-smi or DCGM, measures the percentage of time GPU cores are actively processing tasks, directly indicating whether GPUs are underperforming due to idle time or poor workload distribution. Low core utilization suggests inefficient task scheduling or bottlenecks elsewhere (e.g., CPU, I/O). Option B (memory usage) is important but secondary, as high memory use doesn't guarantee core activity. Option C (network bandwidth) affects distributed workloads, not local GPU use. Option D (uptime) ensures availability, not utilization. NVIDIA's monitoring guidelines prioritize core utilization for performance diagnostics.

NEW QUESTION # 30
In an AI environment, the NVIDIA software stack plays a crucial role in ensuring seamless operations across different stages of the AI workflow. Which components of the NVIDIA software stack would you use to accelerate AI model training and deployment? (Select two)

- A. NVIDIA DGX-1
- B. NVIDIA cuDNN (CUDA Deep Neural Network library)
- C. NVIDIA TensorRT
- D. NVIDIA DeepStream SDK
- E. NVIDIA Nsight

Answer: B,C

Explanation:
For AI model training and deployment:
* NVIDIA cuDNN(A) accelerates training by providing optimized GPU primitives (e.g., convolutions) for deep neural networks, used by frameworks like PyTorch and TensorFlow.
* NVIDIA TensorRT(B) optimizes models for deployment, enhancing inference speed and efficiency on GPUs.
* NVIDIA DGX-1(C) is hardware, not a software component.
* NVIDIA Nsight(D) is for profiling, not direct acceleration of training/deployment.
* NVIDIA DeepStream SDK(E) is for video analytics, not general AI workflows.
cuDNN and TensorRT are core to NVIDIA's AI software stack (A and B).

NEW QUESTION # 31
Your AI data center is running multiple high-power NVIDIA GPUs, and you've noticed an increase in operational costs related to power consumption and cooling. Which of the following strategies would be most effective in optimizing power and cooling efficiency without compromising GPU performance?

- A. Reduce GPU utilization by lowering workload intensity.
- B. Switch to air-cooled GPUs instead of liquid-cooled GPUs.
- C. Increase the cooling fan speeds of all servers.
- D. Implement AI-based dynamic thermal management systems.

Answer: D

Explanation:
Implementing AI-based dynamic thermal management systems is the most effective strategy for optimizing power and cooling efficiency in an AI data center with NVIDIA GPUs without sacrificing performance.
NVIDIA's DGX systems and DCGM support advanced power management features that use AI to dynamically adjust power usage and cooling based on workload demands, GPU temperature, and environmental conditions. This ensures optimal efficiency while maintaining peak performance. Option B (reducing utilization) compromises performance, defeating the purpose of high-power GPUs. Option C (switching to air-cooling) is less efficient than liquid-cooling for high-density GPU setups, per NVIDIA's data center designs. Option D (increasing fan speeds) raises power consumption without addressing root inefficiencies. NVIDIA's documentation on energy-efficient computing highlights dynamic thermal management as a best practice.

NEW QUESTION # 32
An AI operations team is tasked with monitoring a large-scale AI infrastructure where multiple GPUs are utilized in parallel. To ensure optimal performance and early detection of issues, which two criteria are essential for monitoring the GPUs? (Select two)

- A. Average CPU temperature
- B. GPU utilization percentage
- C. Number of active CPU threads
- D. GPU fan noise levels
- E. Memory bandwidth usage on GPUs

Answer: B,E

Explanation:
For monitoring GPUs in an AI infrastructure:
* GPU utilization percentage(A) measures how effectively GPUs are being used, identifying underutilization or overloading-key to performance optimization.
* Memory bandwidth usage on GPUs(D) tracks data transfer rates within the GPU, critical for detecting bottlenecks in memory-intensive AI workloads like deep learning.
* Number of active CPU threads(B) is a CPU metric, less relevant to GPU performance.
* Average CPU temperature(C) monitors CPU health, not GPU status.
* GPU fan noise levels(E) are a byproduct, not a direct performance indicator.
NVIDIA's nvidia-smi tool provides these GPU metrics (A and D) for operational monitoring.

NEW QUESTION # 33
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