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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q14-Q19):

NEW QUESTION # 14

In your AI data center, you need to ensure continuous performance and reliability across all operations. Which two strategies are most critical for effective monitoring? (Select two)

- A. Using manual logs to track system performance daily

- **B. Implementing predictive maintenance based on historical hardware performance data**
- C. Conducting weekly performance reviews without real-time monitoring
- **D. Deploying a comprehensive monitoring system that includes real-time metrics on CPU, GPU, and memory usage**
- E. Disabling non-essential monitoring to reduce system overhead

Answer: B,D

Explanation:

For continuous performance and reliability:

* Deploying a comprehensive monitoring system(D) with real-time metrics (e.g., CPU/GPU usage, memory, temperature via nvidia-smi) enables immediate detection of issues, ensuring optimal operation in an AI data center.

* Implementing predictive maintenance(E) uses historical data (e.g., failure patterns) to anticipate and prevent hardware issues, enhancing reliability proactively.

* Weekly reviews(A) lack real-time responsiveness, risking downtime.

* Manual logs(B) are slow and error-prone, unfit for continuous monitoring.

* Disabling monitoring(C) reduces overhead but blinds operations to issues.

NVIDIA's monitoring tools support D and E as best practices.

NEW QUESTION # 15

What is the primary command for checking the GPU utilization on a single DGX H100 system?

- **A. nvidia-smi**
- B. nvmml
- C. ctop

Answer: A

Explanation:

The nvidia-smi (System Management Interface) command is the primary tool for checking GPU utilization on NVIDIA systems, including the DGX H100. It provides real-time metrics like utilization percentage, memory usage, and power draw. NVML (NVIDIA Management Library) is an API, not a command, and ctop is unrelated, solidifying nvidia-smi as the standard.

NEW QUESTION # 16

Your team is deploying an AI model that involves a real-time recommendation system for a high-traffic e-commerce platform. The model must analyze user behavior and suggest products instantly as the user interacts with the platform. Which type of AI workload best describes this use case?

- A. Reinforcement learning
- B. Offline training
- C. Batch processing
- **D. Streaming analytics**

Answer: D

Explanation:

Streaming analytics best describes the workload for a real-time recommendation system on a high-traffic e-commerce platform.

This workload involves continuous processing of incoming data (user behavior) to deliver instant product suggestions, requiring low-latency inference on NVIDIA GPUs, often with tools like NVIDIA TensorRT or Triton Inference Server. Option A (batch processing) handles data in fixed chunks, unsuitable for real-time needs. Option B (reinforcement learning) focuses on decision-making through trial and error, not immediate recommendations. Option D (offline training) is for model development, not deployment. NVIDIA's AI infrastructure documentation emphasizes streaming analytics for real-time applications like e-commerce personalization.

NEW QUESTION # 17

You are responsible for scaling an AI infrastructure that processes real-time data using multiple NVIDIA GPUs. During peak usage, you notice significant delays in data processing times, even though the GPU utilization is below 80%. What is the most likely cause of this bottleneck?

- A. Insufficient memory bandwidth on the GPUs
- B. High CPU usage causing bottlenecks in data preprocessing
- C. Overprovisioning of GPU resources, leading to idle times
- **D. Inefficient data transfer between nodes in the cluster**

Answer: D

Explanation:

Inefficient data transfer between nodes in the cluster (D) is the most likely cause of delays when GPU utilization is below 80%. In a multi-GPU setup processing real-time data, bottlenecks often arise from slow inter-node communication rather than GPU compute capacity. If data cannot move quickly between nodes (e.

g., due to suboptimal networking like low-bandwidth Ethernet instead of InfiniBand or NVLink), GPUs wait idle, causing delays despite low utilization.

* High CPU usage(A) could bottleneck preprocessing, but GPU utilization would likely be even lower if CPUs were the sole issue.

* Overprovisioning(B) would result in idle GPUs, but not necessarily delays unless misconfigured.

* Insufficient memory bandwidth(C) would typically push GPU utilization higher, not keep it below

80%.

NVIDIA recommends high-speed interconnects (e.g., NVLink, InfiniBand) for efficient data transfer in distributed AI setups (D).

NEW QUESTION # 18

When deploying high-density workloads in a data center, what are the three main resource constraints that need to be considered?

- **A. Power, cooling, and physical space.**
- B. Processing speed, storage capacity, and network connectivity.
- C. Bandwidth, security, and redundancy.

Answer: A

Explanation:

High-density workloads (e.g., GPU clusters for AI) strain data center resources, primarily power (to supply dense servers), cooling (to dissipate heat from tightly packed hardware), and physical space (to house equipment). While processing speed, bandwidth, and other factors matter, power, cooling, and space are the physical constraints most critical to deployment feasibility.

(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Data Center Resource Constraints)

NEW QUESTION # 19

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