

NVIDIA Exam NCA-AIIO Blueprint - Realistic NVIDIA-Certified Associate AI Infrastructure and Operations Test Questions Fee Pass Guaranteed Quiz



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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q43-Q48):

NEW QUESTION # 43

Your AI training jobs are consistently taking longer than expected to complete on your GPU cluster, despite having optimized your model and code. Upon investigation, you notice that some GPUs are significantly underutilized. What could be the most likely cause of this issue?

- A. Insufficient power supply to the GPUs
- B. Outdated GPU drivers

- C. Inefficient data pipeline causing bottlenecks
- D. Inadequate cooling leading to thermal throttling

Answer: C

Explanation:

An inefficient data pipeline causing bottlenecks is the most likely cause of prolonged training times and GPU underutilization in an optimized NVIDIA GPU cluster. If the data pipeline (e.g., I/O, preprocessing) cannot feed data to GPUs fast enough, GPUs idle, reducing utilization and extending training duration. NVIDIA's

"AI Infrastructure and Operations Fundamentals" and "Deep Learning Institute (DLI)" stress that data pipeline efficiency is a common bottleneck in GPU-accelerated training, detectable via tools like NVIDIA DCGM.

Insufficient power (A) would cause crashes, not underutilization. Inadequate cooling (C) leads to throttling, typically with high utilization. Outdated drivers (D) might degrade performance uniformly, not selectively.

NVIDIA's diagnostics point to data pipelines as the primary culprit here.

NEW QUESTION # 44

In managing an AI data center, you need to ensure continuous optimal performance and quickly respond to any potential issues. Which monitoring tool or approach would best suit the need to monitor GPU health, usage, and performance metrics across all deployed AI workloads?

- A. Prometheus with Node Exporter
- B. NVIDIA DCGM (Data Center GPU Manager)
- C. Nagios Monitoring System
- D. Splunk

Answer: B

Explanation:

NVIDIA DCGM (Data Center GPU Manager) is the best tool for monitoring GPU health, usage, and performance metrics across AI workloads in a data center. DCGM provides real-time insights into GPU-specific metrics (e.g., memory usage, utilization, power, errors), designed for NVIDIA GPUs in enterprise environments like DGX clusters. It integrates with orchestration tools (e.g., Kubernetes) and supports proactive issue detection, as detailed in NVIDIA's "DCGM User Guide." Nagios (A) and Prometheus (B) are general-purpose monitoring tools, lacking GPU-specific depth. Splunk (C) is a log analytics platform, not optimized for GPU monitoring. DCGM is NVIDIA's dedicated solution for AI data center management.

NEW QUESTION # 45

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 NGC Catalog
- C. NVIDIA DIGITS
- D. NVIDIA Triton Inference Server

Answer: D

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 # 46

During AI model deployment, your team notices significant performance degradation in inference workloads.

The model is deployed on an NVIDIA GPU cluster with Kubernetes. Which of the following could be the most likely cause of the degradation?

- A. CPU bottlenecks
- B. High disk I/O latency
- **C. Insufficient GPU memory allocation**
- D. Outdated CUDA drivers

Answer: C

Explanation:

Insufficient GPU memory allocation is the most likely cause of inference degradation in a Kubernetes- managed NVIDIA GPU cluster. Memory shortages lead to swapping or failures, slowing performance. Option A (outdated CUDA) may cause compatibility issues, not direct degradation. Option B (CPU bottlenecks) affects preprocessing, not inference. Option C (disk I/O) impacts data loading, not GPU tasks. NVIDIA's Kubernetes GPU Operator does stress memory allocation.

NEW QUESTION # 47

When using an InfiniBand network for an AI infrastructure, which software component is necessary for the fabric to function?

- A. Verbs
- **B. OpenSM**
- C. MPI

Answer: B

Explanation:

OpenSM (Open Subnet Manager) is essential for InfiniBand networks, managing the fabric by discovering topology, configuring switches and host channel adapters (HCAs), and handling routing. Without it, the fabric cannot operate. Verbs is an API for RDMA, and MPI is a communication protocol, but OpenSM is the critical software component for functionality. (Reference: NVIDIA Networking Documentation, Section on InfiniBand Subnet Management)

NEW QUESTION # 48

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