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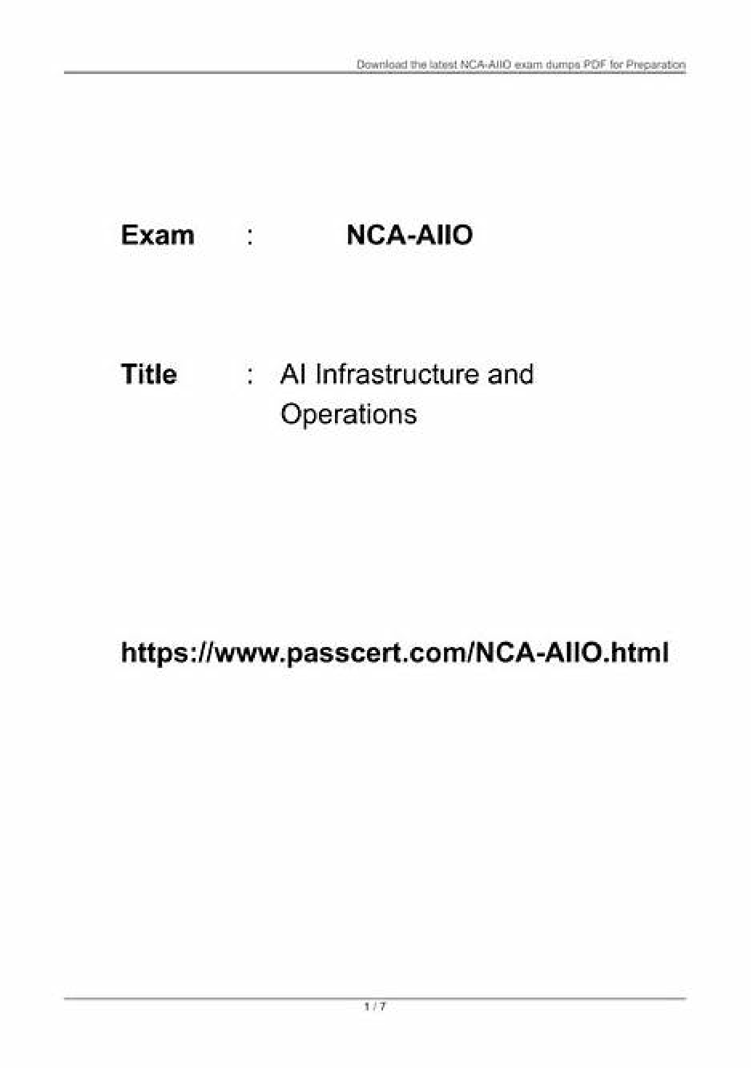
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Exam : NCA-AIIO

Title : AI Infrastructure and Operations

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1 / 7

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NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	• AI Infrastructure: This section of the exam measures the skills of IT professionals and focuses on the physical and architectural components needed for AI. It involves understanding the process of extracting insights from large datasets through data mining and visualization. Candidates must be able to compare models using statistical metrics and identify data trends. The infrastructure knowledge extends to data center platforms, energy-efficient computing, networking for AI, and the role of technologies like NVIDIA DPUs in transforming data centers.
Topic 2	• Essential AI knowledge: Exam Weight: This section of the exam measures the skills of IT professionals and covers foundational AI concepts. It includes understanding the NVIDIA software stack, differentiating between AI, machine learning, and deep learning, and comparing training versus inference. Key topics also involve explaining the factors behind AI's rapid adoption, identifying major AI use cases across industries, and describing the purpose of various NVIDIA solutions. The section requires knowledge of the software components in the AI development lifecycle and an ability to contrast GPU and CPU architectures.
Topic 3	• AI Operations: This section of the exam measures the skills of data center operators and encompasses the management of AI environments. It requires describing essentials for AI data center management, monitoring, and cluster orchestration. Key topics include articulating measures for monitoring GPUs, understanding job scheduling, and identifying considerations for virtualizing accelerated infrastructure. The operational knowledge also covers tools for orchestration and the principles of MLOps.

NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q12-Q17):

NEW QUESTION # 12
When monitoring a GPU-based workload, what is GPU utilization?

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

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 # 13
In training and inference architecture requirements, what is the main difference between training and inference?

- A. Training and inference both require large amounts of data.
- B. Training requires real-time processing, while inference requires large amounts of data.
- C. Training requires large amounts of data, while inference requires real-time processing.
- D. Training and inference both require real-time processing.

Answer: C

Explanation:
The primary distinction between training and inference lies in their operational demands. Training necessitates large amounts of data to iteratively optimize model parameters, often involving extensive datasets processed in batches across multiple GPUs to achieve convergence. Inference, however, is designed for real- time or low-latency processing, where trained models are deployed to make predictions on new inputs with minimal delay, typically requiring less data volume but high responsiveness. This fundamental difference shapes their respective architectural designs and resource allocations.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Training vs. Inference Requirements)

NEW QUESTION # 14
Which statement correctly differentiates between AI, machine learning, and deep learning?

- A. Machine learning is a type of AI that only uses linear models, while deep learning involves non-linear models exclusively.
- B. Deep learning is a broader concept than machine learning, which is a specialized form of AI.
- C. Machine learning is the same as AI, and deep learning is simply a method within AI that doesn't involve machine learning.
- D. AI is a broad field encompassing various technologies, including machine learning, which focuses on data-driven models, and deep learning, a subset of machine learning using neural networks.

Answer: D

Explanation:
AI is a broad field encompassing technologies for intelligent systems. Machine learning (ML), a subset, uses data-driven models, while deep learning (DL), a subset of ML, employs neural networks for complex tasks.
NVIDIA's ecosystem (e.g., cuDNN for DL, RAPIDS for ML) reflects this hierarchy, supporting all levels.
Option A misaligns ML and DL. Option C reverses the subset order. Option D oversimplifies ML and DL distinctions. Option B matches NVIDIA's conceptual framework.

NEW QUESTION # 15
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. Utilizing older GPUs to reduce power consumption
- B. Running all GPUs at maximum clock speeds
- C. Enabling NVIDIA's Adaptive Power Management features
- D. Disabling power capping to allow full power usage

Answer: C

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 # 16
You are tasked with deploying an AI model across multiple cloud providers, each using NVIDIA GPUs.
During the deployment, you observe that the model's performance varies significantly between the providers, even though identical instance types and configurations are used. What is the most likely reason for this discrepancy?

- A. Different versions of the AI framework being used across providers

- B. Differences in the GPU architecture between the cloud providers
- C. Variations in cloud provider-specific optimizations and software stack
- D. Cloud providers using different cooling systems for their data centers

Answer: C

Explanation:
Performance variations across cloud providers with identical NVIDIA GPU instances likely stem from provider-specific optimizations and software stacks (e.g., CUDA versions, driver tuning), affecting how NVIDIA GPUs (e.g., A100) execute the model. NVIDIA's DGX Cloud integrates with providers, but each may tweak configurations differently.
Framework versions (Option B) could contribute but are less likely if controlled. Cooling (Option C) impacts hardware longevity, not immediate performance. GPU architecture (Option D) is identical per instance type.
NVIDIA acknowledges provider-specific stacks as a key factor.

NEW QUESTION # 17
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