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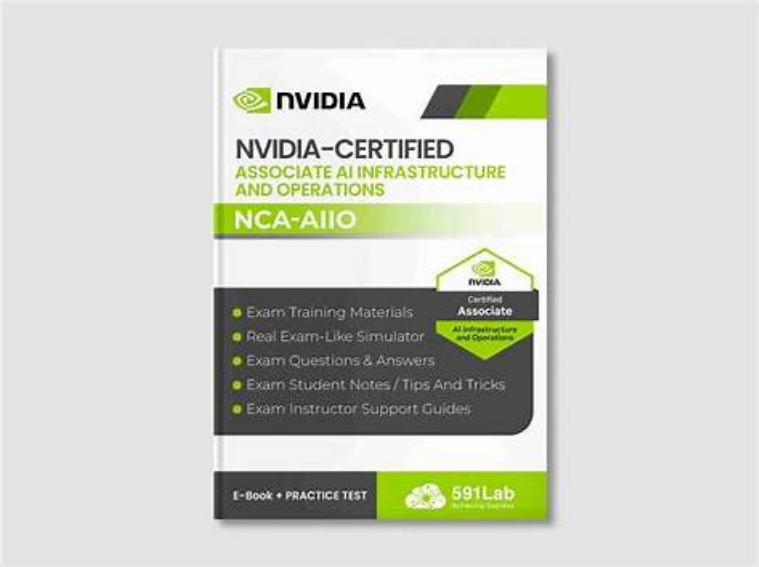

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NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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.

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q15-Q20):

NEW QUESTION # 15
Which NVIDIA software provides the capability to virtualize a GPU?

- A. vGPU
- B. virtGPU
- C. Horizon

Answer: A

Explanation:
NVIDIA vGPU (Virtual GPU) software enables GPU virtualization by partitioning a physical GPU into multiple virtual instances, assignable to virtual machines or containers for accelerated workloads. Horizon is a VMware product, and "virtGPU" isn't an NVIDIA offering, confirming vGPU as the correct solution.

NEW QUESTION # 16
A company is implementing a new network architecture and needs to consider the requirements and considerations for training and inference. Which of the following statements is true about training and inference architecture?

- A. Training architecture is focused on optimizing performance while inference architecture is focused on reducing latency.
- B. Training architecture and inference architecture have the same requirements and considerations.
- C. Training architecture is only concerned with hardware requirements, while inference architecture is only concerned with software requirements.
- D. Training architecture and inference architecture cannot be the same.

Answer: A

Explanation:
Training architectures are designed to maximize computational throughput and accelerate model convergence, often by leveraging distributed systems with multiple GPUs or specialized accelerators to process large datasets efficiently. This focus on performance ensures that models can be trained quickly and effectively. In contrast, inference architectures prioritize minimizing response latency to deliver real-time or near-real-time predictions, frequently employing techniques such as model optimization (e.g., pruning, quantization), batching strategies, and deployment on edge devices or optimized servers. These differing priorities mean that while there may be some overlap, the architectures are tailored to their specific goals-performance for training and low latency for inference.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Infrastructure Considerations for AI Workloads; NVIDIA Documentation on Training and Inference Optimization)

NEW QUESTION # 17
What is a common tool for container orchestration in AI clusters?

- A. MLOps

- B. Apptainer
- C. Slurm
- D. Kubernetes

Answer: D

Explanation:
Kubernetes is the industry-standard tool for container orchestration in AI clusters, automating deployment, scaling, and management of containerized workloads. Slurm manages job scheduling, Apptainer (formerly Singularity) runs containers, and MLOps is a practice, not a tool, making Kubernetes the clear leader in this domain.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Container Orchestration)

NEW QUESTION # 18
A data center is running a cluster of NVIDIA GPUs to support various AI workloads. The operations team needs to monitor GPU performance to ensure workloads are running efficiently and to prevent potential hardware failures. Which two key measures should they focus on to monitor the GPUs effectively? (Select two)

- A. GPU memory utilization
- B. GPU temperature and power consumption
- C. Network bandwidth usage
- D. CPU clock speed
- E. Disk I/O rates

Answer: A,B

Explanation:
To monitor GPU performance effectively in an AI data center, the focus should be on metrics directly tied to GPU health and efficiency:
* GPU temperature and power consumption(C) are critical to prevent overheating and power-related failures, which can disrupt workloads or damage hardware. High temperatures or excessive power draw indicate potential issues requiring intervention.
* GPU memory utilization(D) reflects how much of the GPU's memory is being used by workloads.
High utilization can lead to memory bottlenecks, while low utilization might indicate underuse, both affecting efficiency.
* Disk I/O rates(A) relate to storage performance, not GPU operation directly.
* CPU clock speed(B) is a CPU metric, irrelevant to GPU monitoring in this context.
* Network bandwidth usage(E) is important for distributed systems but doesn't directly assess GPU performance or health.
NVIDIA tools like NVIDIA System Management Interface (nvidia-smi) provide these metrics (C and D), making them essential for monitoring.

NEW QUESTION # 19
Which property MOST explains why deep networks can represent complex functions efficiently?

- A. Random initialization
- B. Universal approximation theorem
- C. Hierarchical feature abstraction
- D. High numerical precision

Answer: C

Explanation:
Deep architectures build hierarchical representations, enabling efficient reuse and composition of features.

NEW QUESTION # 20
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