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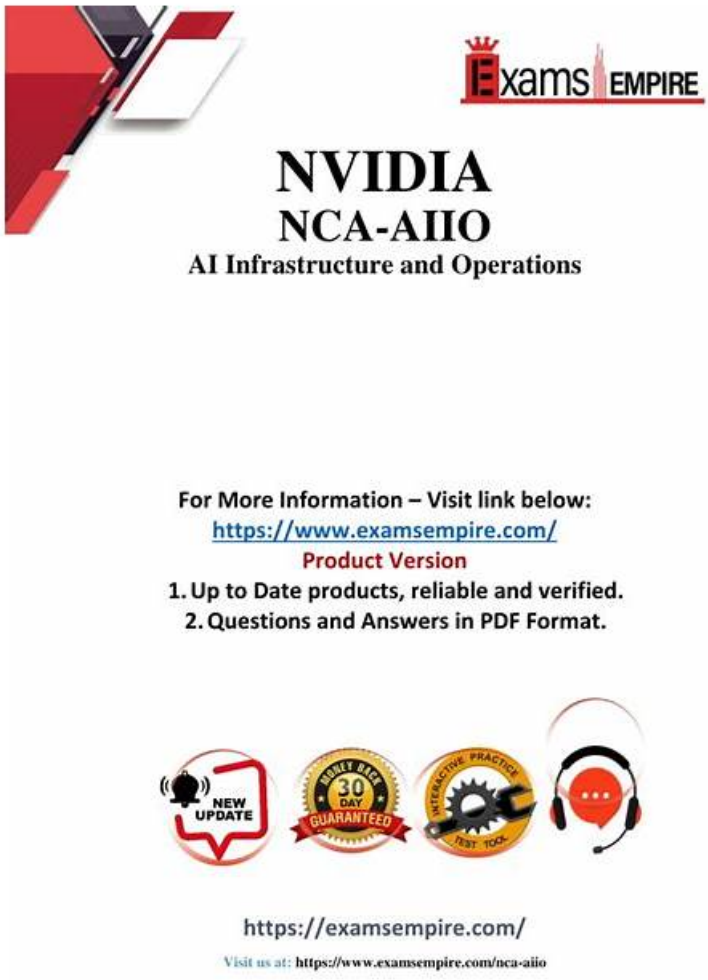

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NVIDIA NCA-AIIO Exam Syllabus Topics:

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 (Q25-Q30):

NEW QUESTION # 25
In your multi-tenant AI cluster, multiple workloads are running concurrently, leading to some jobs experiencing performance degradation. Which GPU monitoring metric is most critical for identifying resource contention between jobs?

- A. GPU Utilization Across Jobs
- B. GPU Temperature
- C. Network Latency
- D. Memory Bandwidth Utilization

Answer: A

Explanation:
GPU Utilization Across Jobs is the most critical metric for identifying resource contention in a multi-tenant cluster. It shows how GPU resources are divided among workloads, revealing overuse or starvation via tools like nvidia-smi. Option B (temperature) indicates thermal issues, not contention. Option C (network latency) affects distributed tasks. Option D (memory bandwidth) is secondary. NVIDIA's DCGM supports this metric for contention analysis.

NEW QUESTION # 26
What is the name of NVIDIA's SDK that accelerates machine learning?

- A. Clara
- B. RAPIDS
- C. cuDNN

Answer: C

Explanation:

The CUDA Deep Neural Network library (cuDNN) is NVIDIA's SDK specifically designed to accelerate machine learning, particularly deep learning tasks. It provides highly optimized implementations of neural network primitives-such as convolutions, pooling, normalization, and activation functions-leveraging GPU parallelism. Clara focuses on healthcare applications, and RAPIDS accelerates data science workflows, but cuDNN is the core SDK for machine learning acceleration.
(Reference: NVIDIA cuDNN Documentation, Introduction)

NEW QUESTION # 27
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 Nsight
- C. NVIDIA cuDNN (CUDA Deep Neural Network library)
- D. NVIDIA DeepStream SDK
- E. NVIDIA TensorRT

Answer: C,E

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 # 28
Your organization has deployed a large-scale AI data center with multiple GPUs running complex deep learning workloads. You've noticed fluctuating performance and increasing energy consumption across several nodes. You need to optimize the data center's operation and improve energy efficiency while ensuring high performance. Which of the following actions should you prioritize to achieve optimized AI data center management and maintain efficient energyconsumption?

- A. Increase the number of active cooling systems to reduce thermal throttling
- B. Implement GPU workload scheduling based on real-time performance metrics
- C. Disable power management features on all GPUs to ensure maximum performance
- D. Install additional GPUs to distribute the workload more evenly

Answer: B

Explanation:
Implementing GPU workload scheduling based on real-time performance metrics is the priority action to optimize AI data center management and improve energy efficiency while maintaining performance. Using tools like NVIDIA DCGM, this approach monitors metrics (e.g., power usage, utilization) and schedules workloads to balance load, reduce idle time, and leverage power-saving features (e.g., GPU Boost). This aligns with NVIDIA's "AI Infrastructure and Operations Fundamentals" for energy-efficient GPU management without sacrificing throughput.
Disabling power management (A) increases consumption unnecessarily. Adding GPUs (C) raises costs without addressing efficiency. More cooling (D) mitigates symptoms, not root causes. NVIDIA prioritizes dynamic scheduling for optimization.

NEW QUESTION # 29
You are tasked with virtualizing the GPU resources in a multi-tenant AI infrastructure where different teams need isolated access to GPU resources. Which approach is most suitable for ensuring efficient resource sharing while maintaining isolation between tenants?

- A. Deploying containers without GPU isolation
- B. Implementing CPU-based virtualization

- C. Using GPU passthrough for each tenant
- D. NVIDIA vGPU (Virtual GPU) Technology

Answer: D

Explanation:
NVIDIA vGPU (Virtual GPU) Technology is the most suitable approach for virtualizing GPU resources in a multi-tenant AI infrastructure while ensuring efficient sharing and isolation. vGPU allows multiple VMs to share a physical GPU with dedicated memory and compute slices, providing isolation via virtualization while maximizing resource utilization. NVIDIA's vGPU documentation highlights its use in enterprise environments for secure, scalable AI workloads. Option B (GPU passthrough) dedicates entire GPUs, reducing sharing efficiency. Option C (containers without isolation) risks resource contention. Option D (CPU-based virtualization) excludes GPU acceleration. vGPU is NVIDIA's recommended solution for this scenario.

NEW QUESTION # 30
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