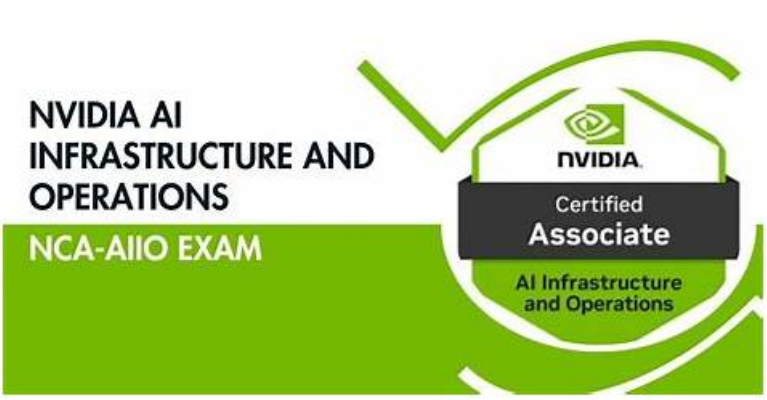
NVIDIA NCA-AIIO全真問題集 & NCA-AIIOテスト内容



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NVIDIA NCA-AIIO 認定試験の出題範囲:

トピック	出題範囲
トピック 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.
トピック 2	• 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.
トピック 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.

>> NVIDIA NCA-AIIO全真問題集 <<

NVIDIA NCA-AIIO Exam | NCA-AIIO全真問題集 - あなたのNCA-AIIO試験の合格的なプロバイダー

現在、多くの外資系会社はNVIDIAのNCA-AIIO試験認定を持つ職員に奨励を与えます。それに、NCA-AIIO試験に合格しない人々は大変なことであるでしょうか？我々のNVIDIAのNCA-AIIO問題集は試験に準備する受験生にヘルプを与えます。もしあなたはNVIDIAのNCA-AIIO試験に準備しているなら、弊社GoShikenのNCA-AIIO問

題集を使ってください。

NVIDIA-Certified Associate AI Infrastructure and Operations 認定 NCA-AIIO 試験問題 (Q28-Q33):

質問 # 28
In your AI data center, you've observed that some GPUs are underutilized while others are frequently maxed out, leading to uneven performance across workloads. Which monitoring tool or technique would be most effective in identifying and resolving these GPU utilization imbalances?

- A. Use NVIDIA DCGM to Monitor and Report GPU Utilization
- B. Perform Manual Daily Checks of GPU Temperatures
- C. Set Up Alerts for Disk I/O Performance Issues
- D. Monitor CPU Utilization Using Standard System Monitoring Tools

正解：A

解説：
Identifying and resolving GPU utilization imbalances requires detailed, real-time monitoring. NVIDIA DCGM (Data Center GPU Manager) tracks GPU Utilization Percentage across a cluster (e.g., DGX systems), pinpointing underutilized and overloaded GPUs. It provides actionable data to adjust workload distribution, optimizing performance via integration with schedulers like Kubernetes. Disk I/O alerts (Option A) address storage, not GPU use. Manual temperature checks (Option B) are unscalable and unrelated to utilization. CPU monitoring (Option C) misses GPU-specific issues. DCGM is NVIDIA's go-to tool for this task.

質問 # 29
When virtualizing an infrastructure that includes GPUs to support AI workloads, what is one critical factor to consider to ensure optimal performance?

- A. Use GPU sharing technologies, like NVIDIA GRID, to allocate resources dynamically
- B. Assign more storage to each virtual machine
- C. Increase the number of virtual CPUs assigned to each VM
- D. Disable hyper-threading on the host machine

正解：A

解説：
Using GPU sharing technologies like NVIDIA GRID (A) is a critical factor for optimal performance in a virtualized AI infrastructure. NVIDIA GRID (or its successor, NVIDIA vGPU) enables dynamic allocation of GPU resources across virtual machines (VMs), allowing multiple AI workloads to share a physical GPU efficiently. This ensures high performance by providing each VM with direct GPU acceleration tailored to its needs, while maximizing resource utilization-keyfor AI tasks like training or inference.
* Assigning more storage(B) improves I/O but doesn't directly enhance GPU performance for compute- heavy AI workloads.
* Increasing virtual CPUs(C) boosts CPU capacity, but AI workloads rely primarily on GPU acceleration, not vCPUs.
* Disabling hyper-threading(D) might reduce CPU contention but doesn't address GPU virtualization needs.
NVIDIA's virtualization documentation emphasizes vGPU/GRID for AI performance (A).

質問 # 30
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 DIGITS
- B. NVIDIA Triton Inference Server
- C. NVIDIA NGC Catalog
- D. NVIDIA TensorRT

正解：B

解説：
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.

質問 # 31
In a large-scale AI training environment, a data scientist needs to schedule multiple AI model training jobs with varying dependencies and priorities. Which orchestration strategy would be most effective to ensure optimal resource utilization and job execution order?

- A. FIFO (First-In-First-Out) Queue
- B. Round-Robin Scheduling
- C. Manual Scheduling
- D. DAG-Based Workflow Orchestration

正解：D

解説：
DAG-Based Workflow Orchestration (A) (Directed Acyclic Graph) is the most effective strategy for scheduling multiple AI training jobs with varying dependencies and priorities. A DAG defines a workflow where tasks (e.g., data preprocessing, model training, validation) are represented as nodes, and edges indicate dependencies and execution order. Tools like Apache Airflow or Kubeflow Pipelines, which integrate with NVIDIA GPU clusters, use DAGs to optimize resource utilization by scheduling jobs based on their dependencies and priority levels, ensuring that high-priority tasks access GPUs when needed while respecting inter-task relationships. This approach is scalable and automated, critical for large-scale environments.
* Manual Scheduling(B) is error-prone, time-consuming, and impractical for complex, dependency- driven workloads.
* FIFO Queue(C) executes jobs in arrival order, ignoring dependencies or priorities, leading to inefficient GPU use.
* Round-Robin Scheduling(D) distributes jobs evenly but doesn't account for dependencies, risking delays or resource contention.
NVIDIA's AI infrastructure supports orchestration tools like Kubeflow, which leverage DAGs for optimal job management (A).

質問 # 32
Which of the following has been the most critical factor enabling the recent rapid improvements and adoption of AI in various sectors?

- A. The development and adoption of AI-specific hardware like GPUs and TPUs.
- B. Increased investment in AI research and development by large tech companies.
- C. The availability of large, annotated datasets for training AI models.
- D. The rise of user-friendly AI frameworks and libraries.

正解：A

解説：
The development and adoption of AI-specific hardware like NVIDIA GPUs and TPUs have been the most critical factor driving recent AI advancements and adoption across sectors. GPUs' parallel processing capabilities have exponentially accelerated training and inference for deep learning models, enabling breakthroughs in industries like healthcare, automotive, and finance. NVIDIA's documentation, including its AI leadership narrative, credits GPU innovation (e.g., A100, DGX systems) for making AI computationally feasible at scale. Option A (frameworks) and Option B (datasets) are vital but depend on hardware to execute efficiently. Option C (investment) supports development but isn't the direct enabler. NVIDIA's role in AI hardware underscores Option D's primacy.

質問 # 33
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NCA-AIIOテスト内容: https://www.goshiken.com/NVIDIA/NCA-AIIO-mondaishu.html

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