

New Vce NCA-AIIO Free | High Pass-Rate Test NCA-AIIO Study Guide: NVIDIA-Certified Associate AI Infrastructure and Operations



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NVIDIA NCA-AIIO Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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.

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q33-Q38):

NEW QUESTION # 33

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- A. Outdated CUDA drivers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

Answer: D

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 docs stress memory allocation.

NEW QUESTION # 34

What is the importance of a job scheduler in an AI resource-constrained cluster?

- A. It increases the number of resources available in the cluster.
- B. It ensures that all jobs in the cluster are executed simultaneously.
- C. It allocates resources based on which job requests came first.
- **D. It allocates resources efficiently and optimizes job execution.**

Answer: D

Explanation:

In a resource-constrained AI cluster, a job scheduler (e.g., Slurm) efficiently allocates limited resources (GPUs, CPUs) to workloads, optimizing utilization and job execution time. It prioritizes based on policies, not just first-come-first-served, and doesn't add resources or run all jobs simultaneously, focusing instead on resource optimization.

NEW QUESTION # 35

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

Answer: D

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 # 36

Which industry has seen the most significant transformation through the use of NVIDIA AI infrastructure, particularly in enhancing product development cycles and reducing time-to-market for new innovations?

- A. Retail, by optimizing supply chains and enhancing customer personalization
- B. Manufacturing, by automating production lines and improving quality control
- C. Automotive, by revolutionizing the design and testing of autonomous vehicles
- D. Finance, by improving predictive analytics and algorithmic trading models

Answer: C

Explanation:

The automotive industry has seen the most significant transformation via NVIDIA AI infrastructure (e.g., NVIDIA Drive), accelerating autonomous vehicle design and testing, thus reducing time-to-market. Options A, B, and C benefit from AI, but automotive's reliance on GPU-driven simulation and validation stands out.

NVIDIA's automotive success stories confirm this impact.

NEW QUESTION # 37

How is the architecture different in a GPU versus a CPU?

- A. A GPU is architected to support massively parallel execution of simple instructions.
- B. A GPU is a single large and complex core to support massive compute operations.
- C. A GPU acts as a PCIe controller to maximize bandwidth.

Answer: A

Explanation:

A GPU's architecture is designed for massive parallelism, featuring thousands of lightweight cores that execute simple instructions across vast data elements simultaneously-ideal for tasks like AI training. In contrast, a CPU has fewer, complex cores optimized for sequential execution and branching logic. GPUs don't function as PCIe controllers (a hardware role), nor are they single-core designs, making the parallel execution focus the key differentiator. (Reference:

NVIDIA GPU Architecture Whitepaper, Section on GPU Design Principles)

NEW QUESTION # 38

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