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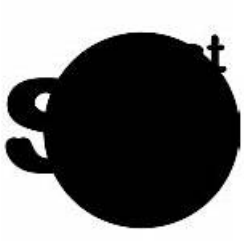

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NVIDIA NCA-AIIO Exam Syllabus Topics:

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	• 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 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.

NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q22-Q27):

NEW QUESTION # 22
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. Variations in cloud provider-specific optimizations and software stack
- C. Cloud providers using different cooling systems for their data centers
- D. Differences in the GPU architecture between the cloud providers

Answer: B

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 # 23
An enterprise is deploying a large-scale AI model for real-time image recognition. They face challenges with scalability and need to ensure high availability while minimizing latency. Which combination of NVIDIA technologies would best address these needs?

- A. NVIDIA CUDA and NCCL
- B. NVIDIA Triton Inference Server and GPUDirect RDMA
- C. NVIDIA DeepStream and NGC Container Registry
- D. NVIDIA TensorRT and NVLink

Answer: D

Explanation:
NVIDIA TensorRT and NVLink (D) best address scalability, high availability, and low latency forreal-time image recognition:
* NVIDIA TensorRToptimizes deep learning models for inference, reducing latency and increasing throughput on GPUs, critical for

real-time tasks.
* NVLinkprovides high-speed GPU-to-GPU interconnects, enabling scalable multi-GPU setups with minimal data transfer latency, ensuring high availability and performance under load.
* CUDA and NCCL(A) are foundational for training, not optimized for inference deployment.
* DeepStream and NGC(B) focus on video analytics and container management, less suited for general image recognition scalability.
* Triton and GPUDirect RDMA(C) enhance inference and data transfer, but RDMA is more network- focused, less critical than NVLink for GPU scaling.
TensorRT and NVLink align with NVIDIA's inference optimization strategy (D).

NEW QUESTION # 24
Your organization operates an AI cluster where various deep learning tasks are executed. Some tasks are time- sensitive and must be completed as soon as possible, while others are less critical. Additionally, some jobs can be parallelized across multiple GPUs, while others cannot. You need to implement a job scheduling policy that balances these needs effectively. Which scheduling policy would best balance the needs of time-sensitive tasks and efficiently utilize the available GPUs?

- A. Use a round-robin scheduling approach to ensure equal access for all jobs
- B. Schedule the longest-running jobs first to reduce overall cluster load
- C. First-Come, First-Served (FCFS) scheduling to maintain order
- D. Implement a priority-based scheduling system that also considers GPU availability and task parallelization

Answer: D

Explanation:
A priority-based scheduling system considering GPU availability and task parallelization best balances time- sensitive tasks and GPU utilization. It prioritizes urgent jobs while optimizing resource allocation (e.g., via Kubernetes with NVIDIA GPU Operator). Option A (FCFS) ignores priority. Option B (longest first) delays critical tasks. Option C (round-robin) neglects urgency and parallelization. NVIDIA's orchestration docs support priority-based scheduling.

NEW QUESTION # 25
In an AI cluster, what is the purpose of job scheduling?

- A. To gather and analyze cluster data on a regular schedule.
- B. To assign workloads to available compute resources.
- C. To monitor and troubleshoot cluster performance.
- D. To install, update, and configure cluster software.

Answer: B

Explanation:
Job scheduling in an AI cluster assigns workloads (e.g., training, inference) to available compute resources (GPUs, CPUs), optimizing resource utilization and ensuring efficient execution. It's distinct from data analysis, monitoring, or software management, focusing solely on workload distribution.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Job Scheduling)

NEW QUESTION # 26
In an AI infrastructure setup, you need to optimize the network for high-performance data movement between storage systems and GPU compute nodes. Which protocol would be most effective for achieving low latency and high bandwidth in this environment?

- A. HTTP
- B. SMTP
- C. Remote Direct Memory Access (RDMA)
- D. TCP/IP

Answer: C

Explanation:
Remote Direct Memory Access (RDMA) is the most effective protocol for optimizing network performance between storage systems and GPU compute nodes in an AI infrastructure. RDMA enables direct memory access between devices over high-speed

interconnects (e.g., InfiniBand, RoCE), bypassing the CPU and reducing latency while providing high bandwidth. This is critical for AI workloads, where large datasets must move quickly to GPUs for training or inference, minimizing bottlenecks.
HTTP (A) and SMTP (B) are application-layer protocols for web and email, respectively, unsuitable for low- latency data movement. TCP/IP (D) is a general-purpose networking protocol but lacks the performance of RDMA for GPU-centric workloads.
NVIDIA's "DGX SuperPOD Reference Architecture" and "AI Infrastructure and Operations" materials highlight RDMA's role in high-performance AI networking.

NEW QUESTION # 27
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