

NVIDIA

Exam Questions NCA-AIO

NVIDIA-Certified Associate AI Infrastructure and Operations



NEW QUESTION 1

When training a neural network, what is the most common pattern of storage access?

- A. Random write
- B. Sequential read
- C. Sequential write

Answer: B

NEW QUESTION 2

In training and inference architecture requirements, what is the main difference between training and inference?

- A. Training requires real-time processing, while inference requires large amounts of data.
- B. Training requires large amounts of data, while inference requires real-time processing.
- C. Training and inference both require large amounts of data.
- D. Training and inference both require real-time processing.

Answer: B

NEW QUESTION 3

Which of the following NVIDIA tools is primarily used for monitoring and managing AI infrastructure in the enterprise?

- A. NVIDIA NeMo System Manager
- B. NVIDIA Data Center GPU Manager
- C. NVIDIA DGX Manager
- D. NVIDIA Base Command Manager

Answer: D

NEW QUESTION 4

Which of the following statements correctly differentiates between AI, Machine Learning, and Deep Learning?

- A. Machine Learning is a subset of AI, and AI is a subset of Deep Learning.
- B. AI and Deep Learning are the same, while Machine Learning is a separate concept.
- C. AI is a subset of Machine Learning, and Machine Learning is a subset of Deep Learning.
- D. Deep Learning is a subset of Machine Learning, and Machine Learning is a subset of AI.

Answer: D

NEW QUESTION 5

An IT professional is considering whether to implement an on-prem or cloud infrastructure. Which of the following is a key advantage of on-prem infrastructure?

- A. Lower upfront costs and capital expenditure.
- B. Scalability and flexibility.
- C. Ensure data security and sovereignty.
- D. Easy remote management.

Answer: C

NEW QUESTION 6

What is a key benefit of using NVIDIA GPUDirect RDMA in an AI environment?

- A. It increases the power efficiency and thermal management of GPUs.
- B. It reduces the latency and bandwidth overhead of remote memory access between GPUs.
- C. It enables faster data transfers between GPUs and CPUs without involving the operating system.
- D. It allows multiple GPUs to share the same memory space without any synchronization.

Answer: C

NEW QUESTION 7

Which solution should be recommended to support real-time collaboration and rendering among a team?

- A. A cluster of servers with NVIDIA T4 GPUs in each server.
- B. A DGX SuperPOD.
- C. An NVIDIA Certified Server with RTX-based GPUs.

Answer: C

NEW QUESTION 8

When should RoCE be considered to enhance network performance in a multi-node AI computing environment?

- A. A network that experiences a high packet loss rate (PLR).
- B. A network with large amounts of storage traffic.

C. A network that cannot utilize the full available bandwidth due to high CPU utilization.

Answer: C

NEW QUESTION 9

What is the name of NVIDIA's SDK that accelerates machine learning?

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

Answer: C

NEW QUESTION 10

Which of the following statements is true about GPUs and CPUs?

- A. GPUs are optimized for parallel tasks, while CPUs are optimized for serial tasks.
- B. GPUs have very low bandwidth main memory while CPUs have very high bandwidth main memory.
- C. GPUs and CPUs have the same number of cores, but GPUs have higher clock speeds.
- D. GPUs and CPUs have identical architectures and can be used interchangeably.

Answer: A

NEW QUESTION 10

How is out-of-band management utilized by network operators in an AI environment?

- A. It is used to remotely manage and troubleshoot network devices independently of the production network.
- B. It is used to directly manage the AI model's learning rate during training sessions.
- C. It is used to increase the computational power of AI models by adapting additional processing resources.
- D. It is used to manage the data throughput of AI applications by prioritizing network traffic.

Answer: A

NEW QUESTION 14

How many 1 Gb Ethernet in-band network connections are in a DGX H100 system?

- A. 1
- B. 2

Answer: C

NEW QUESTION 19

What factors have led to significant breakthroughs in Deep Learning?

- A. Advances in hardware, availability of fast internet connections, and improvements in training algorithms.
- B. Advances in sensors, availability of large datasets, and improvements to the "Bag of Words" algorithm.
- C. Advances in hardware, availability of large datasets, and improvements in training algorithms.
- D. Advances in smartphones, social media sites, and improvements in statistical techniques.

Answer: C

NEW QUESTION 21

Which NVIDIA tool aids data center monitoring and management?

- A. NVIDIA Mellanox Insight
- B. NVIDIA Clara
- C. NVIDIA TensorRT
- D. NVIDIA DCGM

Answer: D

NEW QUESTION 26

In an AI cluster, what is the importance of using Slurm?

- A. Slurm is used for data storage and retrieval in an AI cluster.
- B. Slurm is responsible for AI model training and inference in an AI cluster.
- C. Slurm is used for interconnecting nodes in an AI cluster.
- D. Slurm helps with managing job scheduling and resource allocation in the cluster.

Answer: D

NEW QUESTION 28

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