

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

The foundation of the NVIDIA software stack is the DGX OS. Which of the following Linux distributions is DGX OS built upon?

- A. Ubuntu
- B. Red Hat
- C. CentOS

Answer: A

NEW QUESTION 4

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 5

Which phase of deep learning benefits the greatest from a multi-node architecture?

- A. Data Augmentation
- B. Training
- C. Inference

Answer: B

NEW QUESTION 6

When deploying high-density workloads in a data center, what are the three main resource constraints that need to be considered?

- A. Processing speed, storage capacity, and network connectivity.
- B. Power, cooling, and physical space.
- C. Bandwidth, security, and redundancy.

Answer: B

NEW QUESTION 7

Which NVIDIA parallel computing platform and programming model allows developers to program in popular languages and express parallelism through extensions?

- A. CUDA
- B. CUML
- C. CUGRAPH

Answer: A

NEW QUESTION 8

Which two components are included in GPU Operator? (Choose two.)

- A. Drivers
- B. PyTorch
- C. DCGM
- D. TensorFlow

Answer: AC

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

What is a common tool for container orchestration in AI clusters?

- A. Kubernetes
- B. MLOps
- C. Slurm
- D. Apptainer

Answer: A

NEW QUESTION 10

How many distinct network fabrics are in an AI cluster?

- A. 3
- B. 2
- C. 4
- D. 5

Answer: A

NEW QUESTION 14

When using an InfiniBand network for an AI infrastructure, which software component is necessary for the fabric to function?

- A. Verbs
- B. MPI
- C. OpenSM

Answer: C

NEW QUESTION 15

What is a significant benefit of using containers in an AI development environment?

- A. They increase the base accuracy of AI models by optimizing their algorithms.
- B. They ensure that AI applications run consistently across different computing environments.
- C. They can automatically generate AI datasets for machine learning model training.
- D. They directly increase the processing speed of GPUs used in AI computations.

Answer: B

NEW QUESTION 18

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 22

A customer is evaluating an AI cluster for training and is questioning why they should use a large number of nodes. Why would multi-node training be advantageous?

- A. The model is too large to fit into GPU memory.
- B. The model is being used by a large number of users.
- C. The model is being used for large-scale inference workloads.

Answer: A

NEW QUESTION 23

How many Mellanox ConnectX-6 Single Port VPI cards are in a DGX A100 system?

- A. 8

- B. 16
- C. 4

Answer: A

NEW QUESTION 24

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

What is the maximum number of MIG instances that an H100 GPU provides?

- A. 7
- B. 8
- C. 4

Answer: A

NEW QUESTION 32

Which aspect of computing uses large amounts of data to train complex neural networks?

- A. Machine learning
- B. Deep learning
- C. Inferencing

Answer: B

NEW QUESTION 37

What is an advantage of InfiniBand over Ethernet?

- A. InfiniBand always provides higher bandwidth than Ethernet.
- B. InfiniBand supports RDMA while Ethernet does not.
- C. InfiniBand offers lower latency than Ethernet.

Answer: C

NEW QUESTION 38

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