

## NCA-AIIO Dumps

# NVIDIA-Certified Associate AI Infrastructure and Operations

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**NEW QUESTION 1**

A company is implementing a new network architecture and needs to consider the requirements and considerations for training and inference. Which of the following statements is true about training and inference architecture?

- A. Training architecture and inference architecture have the same requirements and considerations.
- B. Training architecture is only concerned with hardware requirements, while inference architecture is only concerned with software requirements.
- C. Training architecture is focused on optimizing performance while inference architecture is focused on reducing latency.
- D. Training architecture and inference architecture cannot be the same.

**Answer: C**

**NEW QUESTION 2**

Which of the following statements is true about Kubernetes orchestration?

- A. It is bare-metal based but it supports containers.
- B. It has advanced scheduling capabilities to assign jobs to available resources.
- C. It has no inferencing capabilities.
- D. It does load balancing to distribute traffic across containers.

**Answer: BD**

**NEW QUESTION 3**

Which type of GPU core was specifically designed to realistically simulate the lighting of a scene?

- A. Tensor Cores
- B. CUDA Cores
- C. Ray Tracing Cores

**Answer: C**

**NEW QUESTION 4**

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 5**

Which architecture is the core concept behind large language models?

- A. BERT Large model
- B. State space model
- C. Transformer model
- D. Attention model

**Answer: C**

**NEW QUESTION 6**

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

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

**Answer: B**

**NEW QUESTION 7**

Which NVIDIA software provides the capability to virtualize a GPU?

- A. Horizon
- B. vGPU
- C. virtGPU

**Answer: B**

**NEW QUESTION 8**

Which is the best PUE value for a data center?

- A. PUE of 1.2
- B. PUE of 3.5
- C. PUE of 5.0

D. PUE of 2.0

**Answer:** A

**NEW QUESTION 9**

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 10**

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 12**

What is one key advantage that Cloud GPU Infrastructure has over On-Prem GPU infrastructure?

- A. Lower cost barrier to entry.
- B. Reduced cost of I/O traffic.
- C. Greater flexibility for hardware orchestration.

**Answer:** A

**NEW QUESTION 16**

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 18**

In an AI cluster, what is the purpose of job scheduling?

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

**Answer:** C

**NEW QUESTION 20**

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 23**

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 24**

In a data center, what is the purpose and benefit of a DPU?

- A. A DPU is responsible for providing backup and disaster recovery solutions.
- B. A DPU is used for managing physical infrastructure, such as power and cooling.
- C. A DPU is responsible for managing network connections and security.
- D. A DPU is designed to offload, accelerate, and isolate infrastructure workloads.

**Answer:** D

**NEW QUESTION 27**

Which are three key features of InfiniBand networking technology?

- A. High reliability, high latency, and CPU offloads.
- B. High latency, high reliability, and high bandwidth.
- C. GPU offloads, low latency, high reliability.
- D. Low latency, high bandwidth, and CPU offloads.

**Answer:** D

**NEW QUESTION 30**

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

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

**Answer:** D

**NEW QUESTION 34**

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 35**

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 38**

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 40**

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