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Studying for attending NCA-AIIO exam pays attention to the method. The good method often can bring the result with half the effort, therefore we in the examination time, and also should know some test-taking skill. The NCA-AIIO quiz guide on the basis of summarizing the past years, the answers have certain rules can be found, either subjective or objective questions, we can find in the corresponding module of similar things in common. To this end, the NCA-AIIO Exam Dumps have summarized some types of questions in the qualification examination to help you pass the NCA-AIIO exam.

Prep4SureReview NCA-AIIO Web-Based Practice Test: For the NVIDIA-Certified Associate AI Infrastructure and Operations (NCA-AIIO) web-based practice exam no special software installation is required. Because it is a browser-based NVIDIA NCA-AIIO practice test. The web-based NVIDIA-Certified Associate AI Infrastructure and Operations (NCA-AIIO) practice exam works on all operating systems like Mac, Linux, iOS, Android, and Windows. In the same way, IE, Firefox, Opera and Safari, and all the major browsers support the web-based NCA-AIIO practice test.

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In today's highly competitive NVIDIA market, having the NCA-AIIO certification is essential to propel your career forward. To earn the NVIDIA NCA-AIIO certification, you must successfully pass the NCA-AIIO Exam. However, preparing for the NVIDIA NCA-AIIO exam can be challenging, with potential hurdles like exam anxiety and time constraints.

NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q43-Q48):

NEW QUESTION # 43

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

- A. 0
- B. 1
- C. 2

Answer: C

Explanation:

The DGX H100 system uses high-speed NVIDIA ConnectX-7 QSFP56 ports (supporting 10 GbE and above) for in-band management and storage traffic, with no 1 Gb Ethernet interfaces allocated to in-band networks. A single 1 GbE RJ45 port exists, but it's reserved for out-of-band Baseboard Management Controller (BMC) tasks, not in-band connectivity.

(Reference: NVIDIA DGX H100 System Documentation, Networking Section)

NEW QUESTION # 44

When setting up a virtualized environment with NVIDIA GPUs, you notice a significant drop in performance compared to running workloads on bare metal. Which factor is most likely contributing to the performance degradation?

- A. Running VMs on SSD storage.
- **B. Overcommitting GPU resources.**
- C. Enabling high availability features.
- D. Using high-performance networking.

Answer: B

Explanation:

Overcommitting GPU resources is the most likely cause of performance degradation in a virtualized environment with NVIDIA GPUs. In virtualization setups using NVIDIA vGPU technology, overcommitting occurs when more virtual machines (VMs) request GPU resources than are physically available, leading to contention and reduced performance compared to bare metal. NVIDIA's vGPU documentation warns that proper resource allocation is critical to avoid this issue, as GPUs are not as easily time-sliced as CPUs. Option A (high-performance networking) typically enhances, not degrades, performance. Option C (SSD storage) improves I/O but doesn't directly impact GPU performance. Option D (high availability) adds redundancy, not significant GPU overhead. NVIDIA's guidelines emphasize avoiding overcommitment for optimal virtualized AI workloads.

NEW QUESTION # 45

Your team is building an AI-powered application that requires the deployment of multiple models, each trained using different frameworks (e.g., TensorFlow, PyTorch, and ONNX). You need a deployment solution that can efficiently serve all these models in production, regardless of the framework they were built in. Which software component should you choose?

- A. NVIDIA TensorRT
- **B. NVIDIA Triton Inference Server**
- C. NVIDIA DeepOps
- D. NVIDIA Clara Deploy SDK

Answer: B

Explanation:

NVIDIA Triton Inference Server is the best choice for deploying multiple models from different frameworks (TensorFlow, PyTorch, ONNX) in production. Triton provides a unified platform for serving models, supporting diverse frameworks with high performance on NVIDIA GPUs via features like dynamic batching and multi-model management. Option A (Clara Deploy SDK) is healthcare-specific. Option B (TensorRT) optimizes inference but isn't a full serving solution. Option C (DeepOps) aids deployment automation, not model serving. NVIDIA's Triton documentation emphasizes its versatility and efficiency for production inference across frameworks.

NEW QUESTION # 46

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

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

Answer: A

Explanation:

Ray Tracing Cores, introduced in NVIDIA's RTX architecture, are specialized hardware units built to accelerate ray-tracing computations-simulating light interactions (e.g., reflections, shadows) for photorealistic rendering in real time. CUDA Cores handle general-purpose parallel tasks, and Tensor Cores optimize matrix operations for AI, but only Ray Tracing Cores target lighting simulation.

(Reference: NVIDIA GPU Architecture Whitepaper, Section on Ray Tracing Cores)

NEW QUESTION # 47

Your AI cluster is managed using Kubernetes with NVIDIA GPUs. Due to a sudden influx of jobs, your cluster experiences resource overcommitment, where more jobs are scheduled than the available GPU resources can handle. Which strategy would most effectively manage this situation to maintain cluster stability?

- A. Schedule Jobs in a Round-Robin Fashion Across Nodes
- B. Use Kubernetes Horizontal Pod Autoscaler Based on Memory Usage
- **C. Implement Resource Quotas and LimitRanges in Kubernetes**
- D. Increase the Maximum Number of Pods per Node

Answer: C

Explanation:

Implementing Resource Quotas and LimitRanges in Kubernetes is the most effective strategy to manage resource overcommitment and maintain cluster stability in an NVIDIA GPU cluster. Resource Quotas restrict the total amount of resources (e.g., GPU, CPU, memory) that can be consumed by namespaces, preventing over-scheduling across the cluster. LimitRanges enforce minimum and maximum resource usage per pod, ensuring that individual jobs do not exceed available GPU resources. This approach provides fine-grained control and prevents instability caused by resource exhaustion.

Increasing the maximum number of pods per node (A) could worsen overcommitment by allowing more jobs to schedule without resource checks. Round-robin scheduling (B) lacks resource awareness and may lead to uneven GPU utilization. Using Horizontal Pod Autoscaler based on memory usage (C) focuses on scaling pods, not managing GPU-specific overcommitment. NVIDIA's "DeepOps" and "AI Infrastructure and Operations Fundamentals" documentation recommend Resource Quotas and LimitRanges for stable GPU cluster management in Kubernetes.

NEW QUESTION # 48

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