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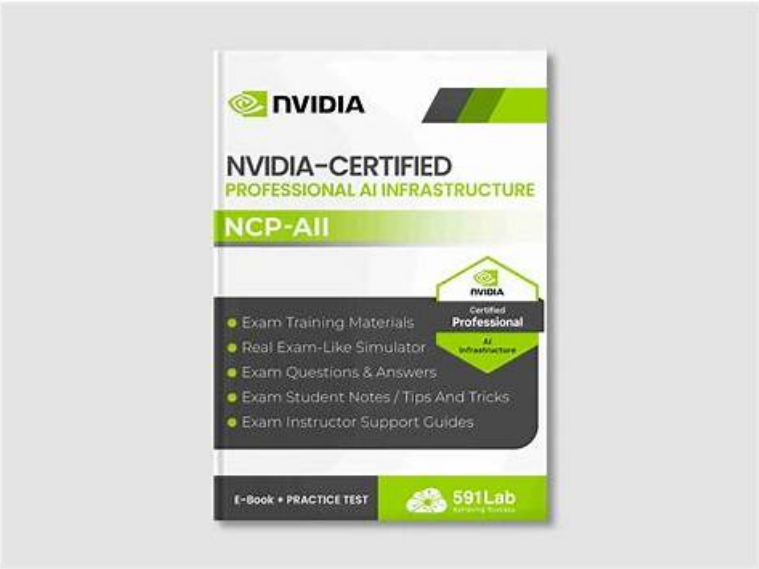

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In today's technological world, more and more students are taking the NVIDIA NCP-AII exam online. While this can be a convenient way to take a NCP-AII exam dumps, it can also be stressful. Luckily, TorrentValid's best NVIDIA NCP-AII Exam Questions can help you prepare for your NCP-AII certification exam and reduce your stress.

In actuality, the test center around the material is organized flawlessly for self-review considering the way that the competitors who are working in NVIDIA working conditions don't get the sufficient opportunity to go to classes for NVIDIA AI Infrastructure certification. Thusly, they need to go for self-study and get the right test material to fire scrutinizing up for the NVIDIA AI Infrastructure (NCP-AII) exam. By utilizing NVIDIA NCP-AII dumps, they shouldn't stress over any additional assistance with that.

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One of the best ways to prepare for the NVIDIA NCP-AII exam is to study the NVIDIA AI Infrastructure (NCP-AII) exam questions. Familiarizing yourself with the NCP-AII certification using practice test on real-world data sets can help you build your confidence and prepare you for the exam. Additionally, taking NCP-AII Exam Questions and quizzes can help you identify areas where you need to improve and gauge your understanding of the material.

NVIDIA AI Infrastructure Sample Questions (Q22-Q27):

NEW QUESTION # 22
You are using the NVIDIA Container Toolkit in a Kubernetes environment with multiple GPUs per node. You want to ensure that pods can request specific GPUs on a node, rather than simply requesting 'any' GPU. Which Kubernetes feature, in conjunction with the NVIDIA Device Plugin, allows you to achieve this fine-grained GPU resource allocation?

- A. Node Affinity
- B. Topology Manager
- C. Taints and Tolerations
- D. Device Plugins API
- E. Resource Quotas

Answer: B

Explanation:
The Kubernetes Topology Manager (C) allows you to align resource allocations (including GPIJs) with specific NIJMA nodes. This is critical for performance when dealing with multiple GPUs per node. Resource Quotas (A) limit resource usage but don't control specific GPU selection. Node Affinity (B) selects nodes based on labels, not specific GPUs. The Device Plugins API (D) enables GPIJ discovery, but the Topology Manager is needed for fine-grained allocation within a node. Taints and Tolerations (E) are used to prevent pods from being scheduled on certain nodes unless they have the corresponding toleration, and does not directly allow for the selection of a particular GPU.

NEW QUESTION # 23
Which of the following techniques can be used to optimize storage performance for deep learning training?

- A. Data sharding
- B. Data prefetching
- C. Data compression using lossless algorithms (e.g., gzip)
- D. Data deduplication
- E. Using a larger block size for the file system

Answer: A,B,E

Explanation:
Data prefetching anticipates future data needs and loads data into the cache before it is requested. A larger block size can improve I/O throughput for large files. Data sharding distributes data across multiple storage devices to increase parallelism. Data compression, while saving space, can add overhead during training. Data deduplication is not normally usefull for training data sets.

NEW QUESTION # 24
Consider an AI server equipped with two NVIDIAAI 00 GPUs interconnected with NVLink. You want to maximize the memory bandwidth available to a CUDA application. You observe that the application's performance doesn't scale linearly with the number of GPUs. Which of the following coding techniques or configurations could potentially improve inter-GPU memory access performance?

- A. Use CUDA-aware MPl for inter-GPU communication to leverage NVLink.
- B. Employ Unified Memory (I-JM) with prefetching to automatically migrate data between GPUs as needed.
- C. Disable NVLink to force the application to use PCle, which might provide more consistent performance.
- D. Ensure all memory allocations are performed on GPU O to minimize data transfer.
- E. Manually manage data transfers between GPUs using 'cudaMemcpyPeer' to exploit NVLink bandwidth. Choose the GPU with more free memory for allocations.

Answer: E

Explanation:
ScudaMemcpyPeer allows explicit, optimized data transfers between GPUs using NVLink. Unified Memory with prefetching can simplify development, but might not always provide the best performance. CUDA-aware MPl is typically used for inter-node communication, not intra-node GPU-GPU. Allocating all memory on one GPU defeats the purpose of multi-GPU acceleration. PCle will be slower than NVLink. Manually managing memory transfers, while complex, gives the programmer the most control over leveraging NVLink bandwidth.

NEW QUESTION # 25
You are managing a cluster of servers running Docker and NVIDIA GPUs. You want to monitor the GPU utilization of all Docker containers running on the cluster in real-time. Which tools or techniques could you use to achieve this?

- A. Utilize NVIDIA's NGC cloud monitoring services to automatically collect and visualize GPU metrics from all nodes.
- B. Use 'nvidia-smi' on each host and parse the output to extract GPIJ utilization for each container.
- C. Use 'docker statS command on each host and look for the GPIJ utilization metrics.
- D. Integrate the DCGM exporter with Prometheus and Grafana to visualize GPU metrics from all nodes in the cluster.
- E. Implement a custom script that uses the NVIDIA Management Library (NVML) to query GPU utilization from each container.

Answer: D,E

Explanation:
DCGM exporter integrated with Prometheus and Grafana is a robust solution for real-time monitoring of GPU metrics across a cluster (B). DCGM provides detailed GPU metrics, and Prometheus/Grafana offers excellent visualization capabilities. NVML (D) is a low-level API that allows you to directly query GPU information, providing flexibility for custom monitoring solutions. While 'nvidia-smi' (A) can be used, it's not ideal for cluster-wide monitoring. 'docker stats' (C) does not provide GPU utilization metrics directly. NGC (E) offers a container registry, but not built-in cluster-wide GPU monitoring.

NEW QUESTION # 26
You are installing four NVIDIAAIOO GPUs in a server, and after installation, you observe that the PCIe link speed for one of the GPUs is running at x8 instead of the expected x16. What could be the POSSIBLE causes for this reduced PCIe link speed?

- A. The CPU does not have enough PCIe lanes to support all GPUs at x16.
- B. The PCIe slot is only wired for x8 speed.
- C. The GPU is faulty.
- D. The BIOS/UEFI is configured to limit the PCIe link speed for that slot.
- E. All of the above

Answer: E

Explanation:
A reduced PCIe link speed can result from multiple factors: a faulty GPU, insufficient PCIe lanes from the CPU, the physical wiring of the PCIe slot, or a BIOS/IJEFI configuration limiting the speed. All these are potentially viable cause. Thus answer E is correct.

NEW QUESTION # 27
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