認定するNVIDIA NCP-AII｜更新するNCP-AII日本語試験情報試験｜試験の準備方法NVIDIA AI Infrastructure練習問題

さらに、Topexam NCP-AIIダンプの一部が現在無料で提供されています：https://drive.google.com/open?id=1ehUXB_cfmQVE_yVOM3j5X0Z15pTfL9Gj

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>> NCP-AII日本語試験情報 <<

NVIDIA NCP-AII練習問題、NCP-AII実際試験

NVIDIAPDFバージョン、PCバージョン、APPオンラインバージョンなど、3つの異なるバージョンのNVIDIA AI Infrastructure prepトレントを選択できます。 異なるバージョンには独自の利点とユーザー数があります。PDFバージョンの機能をご紹介します。 TopexamのNCP-AII試験トレントのPDFは、主にデモの利便性のために、若者の間で最も一般的なバージョンであることに疑いの余地はありません。NVIDIA AI Infrastructure 印刷してメモを取ることができます。

NVIDIA NCP-AII 認定試験の出題範囲：

トピック	出題範囲
トピック 1	• Control Plane Installation and Configuration: Covers deploying the software stack including Base Command Manager, OS, Slurm • Enroot • Pyxis, NVIDIA GPU and DOCA drivers, container toolkit, and NGC CLI.
トピック 2	• System and Server Bring-up: Covers end-to-end physical setup of GPU-based AI infrastructure, including BMC • OOB • TPM configuration, firmware upgrades, hardware installation, and power and cooling validation to ensure servers are workload-ready.

トピック 3	• Physical Layer Management: Covers configuring BlueField network platform devices and setting up Multi-Instance GPU (MIG) partitioning for AI and HPC workloads.
トピック 4	• Troubleshoot and Optimize: Covers identifying and replacing faulty hardware components such as GPUs, network cards, and power supplies, along with performance optimization for AMD • Intel servers and storage.
トピック 5	• Cluster Test and Verification: Covers full cluster validation through HPL and NCCL benchmarks, NVLink and fabric bandwidth tests, cable and firmware checks, and burn-in testing using HPL, NCCL, and NeMo.

NVIDIA AI Infrastructure 認定 NCP-AII 試験問題 (Q15-Q20):

質問 # 15
A server with eight NVIDIAAIOO GPUs experiences frequent CUDA errors during large model training. 'nvidia-smi' reports seemingly normal temperatures for all GPUs. However, upon closer inspection using IPMI, the inlet temperature for GPUs 3 and 4 is significantly higher than others. What is the MOST likely cause and the immediate action to take?

- A. A driver issue is causing incorrect temperature reporting; reinstall the NVIDIA driver.
- B. A software bug in the CUDA toolkit is causing the errors; downgrade to an earlier version.
- C. The temperature sensors on GPUs 3 and 4 are faulty; replace the GPUs immediately.
- D. The power supply is failing to provide sufficient power to GPUs 3 and 4; replace the power supply.
- E. There is a localized airflow problem affecting GPUs 3 and 4; check fan speeds and airflow obstructions.

正解：E

解説：
Elevated inlet temperatures, despite normal GPU temperatures, strongly suggest an airflow issue. GPUs 3 and 4 are likely positioned in a way that restricts airflow. The first step is to check fan speeds and for any physical obstructions blocking airflow. Replacing components without addressing the airflow issue will not solve the problem.

質問 # 16
You've deployed a GPU-accelerated application in Kubernetes using the NVIDIA device plugin. However, your pods are failing to start with an error indicating that they cannot find the NVIDIA libraries. Which of the following could be potential causes of this issue? (Multiple Answers)

- A. The NVIDIA device plugin is not properly configured in the Kubernetes cluster.
- B. The application container image does not include the necessary NVIDIA libraries.
- C. The NVIDIA drivers are not installed on the host node.
- D. The 'nvidia-container-runtime' is not configured as the default runtime for Docker/containerd.
- E. The GPU's compute capability is not sufficient for the workload.

正解：A、B、C、D

解説：
If pods cannot find NVIDIA libraries, it could be because the drivers are missing on the host, the container runtime is not configured to use the NVIDIA runtime, the NVIDIA device plugin is misconfigured preventing GPU discovery and allocation, or the application container image does not include the NVIDIA libraries. E is likely incorrect, if the GPU's compute capability is insufficient then the app would likely start, but throw an error when trying to use the GPU.

質問 # 17
You're configuring a BlueField-3 DPU-based server for high-performance storage. You want to utilize NVMe-oF (NVMe over Fabrics) to access remote NVMe SSDs. What is the primary benefit of using a BlueField DPU in this NVMe-oF setup compared to a traditional server with a standard NIC?

- A. BlueField DPU eliminates the need for a separate NVMe-oF target server.

- B. BlueField DPU automatically configures the NVMe-oF target without any manual intervention.
- C. BlueField DPU offloads the NVMe-oF protocol processing, reducing CPU overhead on the host server.
- D. BlueField DPU allows hot-swapping of NVMe SSDs without interrupting the NVMe-oF connection.
- E. BlueField DPU provides built-in hardware encryption for all NVMe-oF traffic.

正解：C

解説：
The key advantage of using a BlueField DPU in an NVMe-oF setup is its ability to offload the NVMe-oF protocol processing. This significantly reduces the CPU overhead on the host server, allowing it to dedicate more resources to other tasks. While some DPUs might offer features like hardware encryption, the primary benefit is protocol offload.

質問 # 18
Consider a distributed training job running across multiple nodes, each with local NVMe storage. You want to minimize network traffic and maximize I/O performance. Which data loading strategy would be MOST effective?

- A. Using object storage (e.g., S3) as the primary data source and loading data on demand
- B. Centralized data loading from a single NFS server
- C. Loading the entire dataset into the memory of a single node and then distributing it to the other nodes
- D. Using rsync to copy data between nodes before each epoch
- E. Distributing the dataset across the local NVMe drives of each node and using a distributed data loader

正解：E

解説：
Distributing the dataset across the local NVMe drives and using a distributed data loader allows each node to read data directly from its local storage, minimizing network traffic and maximizing I/O performance. Centralized data loading from NFS will create a bottleneck. Loading into a single node's memory is impractical for large datasets. Object storage can introduce latency. Rsync is inefficient for repeated data loading.

質問 # 19
An AI training cluster with NVIDIA GPUs experiences prolonged data loading times during checkpoint reloading, causing GPUs to idle frequently. CPU utilization during data transfers remains high. Which solution most effectively optimizes storage-to-GPU throughput while reducing CPU overhead?

- A. Migrate datasets to SATA SSDs with RAID 0 for higher sequential read speeds.
- B. Add more GPUs to the cluster to parallelize data loading tasks.
- C. Implement GPUDirect Storage to enable direct data transfers.
- D. Increase batch sizes to reduce the frequency of storage access.

正解：C

解説：
GPUDirect Storage is the most effective solution because it reduces unnecessary CPU involvement in the data path between storage and GPU memory. In a traditional AI data pipeline, checkpoint data may move from storage into system memory, be processed by the CPU, and then be copied into GPU memory. This creates CPU overhead and can leave GPUs idle while waiting for data. GPUDirect Storage allows compatible storage systems, file systems, drivers, and NVIDIA GPUs to transfer data more directly into GPU memory. This improves checkpoint reload performance, reduces CPU copy overhead, and helps keep GPUs saturated during training. Increasing batch size may reduce the frequency of storage access, but it does not solve the checkpoint transfer bottleneck. SATA SSDs in RAID 0 may improve local sequential throughput, but they are not ideal for distributed training or shared cluster data access. Adding more GPUs can worsen the issue if the storage path is already the bottleneck. In NVIDIA AI infrastructure, storage-to-GPU optimization is critical for large model training, checkpointing, recovery, and maintaining high accelerator utilization.

質問 # 20
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NCP-AII練習問題: https://www.topexam.jp/NCP-AII_shiken.html

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