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>> NCA-AIIO熱門考題 <<

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最新的 NVIDIA-Certified Associate NCA-AIIO 免費考試真題 (Q48-Q53):

問題 #48
How is the architecture different in a GPU versus a CPU?

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

答案：A

解題說明：
A GPU's architecture is designed for massive parallelism, featuring thousands of lightweight cores that execute simple instructions across vast data elements simultaneously-ideal for tasks like AI training. In contrast, a CPU has fewer, complex cores optimized for sequential execution and branching logic. GPUs don' t function as PCIe controllers (a hardware role), nor are they single-core designs, making the parallel execution focus the key differentiator.
(Reference: NVIDIA GPU Architecture Whitepaper, Section on GPU Design Principles)

問題 #49

You are assisting a senior data scientist in optimizing a distributed training pipeline for a deep learning model.
The model is being trained across multiple NVIDIA GPUs, but the training process is slower than expected.
Your task is to analyze the data pipeline and identify potential bottlenecks. Which of the following is the most likely cause of the slower-than-expected training performance?

- A. The batch size is set too high for the GPUs' memory capacity
- B. The model's architecture is too complex
- C. The data is not being sharded across GPUs properly
- D. The learning rate is too low

答案：C

解題說明：
The most likely cause is thatthe data is not being sharded across GPUs properly(A), leading to inefficiencies in a distributed training pipeline. Here's a detailed analysis:
* What is data sharding?: In distributed training (e.g., using data parallelism), the dataset is divided (sharded) across multiple GPUs, with each GPU processing a unique subset simultaneously.
Frameworks like PyTorch (with DDP) or TensorFlow (with Horovod) rely on NVIDIA NCCL for synchronization. Proper sharding ensures balanced workloads and continuous GPU utilization.
* Impact of poor sharding: If data isn't evenly distributed-due to misconfiguration, uneven batch sizes, or slow data loading-some GPUs may idle while others process larger chunks, creating bottlenecks. This slows training as synchronization points (e.g., all-reduce operations) wait for the slowest GPU. For example, if one GPU receives 80% of the data due to poor partitioning, others finish early and wait, reducing overall throughput.
* Evidence: Slower-than-expected training with multiple GPUs often points to pipeline issues rather than model or hyperparameters, especially in a distributed context. Tools like NVIDIA Nsight Systems can profile data loading and GPU utilization to confirm this.
* Fix: Optimize the data pipeline with tools like NVIDIA DALI for GPU-accelerated loading and ensure even sharding via framework settings (e.g., PyTorch DataLoader with distributed samplers).
Why not the other options?
* B (High batch size): This would cause memory errors or crashes, not just slowdowns, and wouldn't explain distributed inefficiencies.
* C (Low learning rate): Affects convergence speed, not pipeline throughput or GPU coordination.
* D (Complex architecture): Increases compute time uniformly, not specific to distributed slowdowns.
NVIDIA's distributed training guides emphasize proper data sharding for performance (A).

問題 #50
Which two components are included in GPU Operator? (Choose two.)

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

答案：B,D

解題說明：
The NVIDIA GPU Operator is a tool for automating GPU resource management in Kubernetes environments. It includes two key components: GPU drivers, which provide the necessary software to interface with NVIDIA GPUs, and the NVIDIA Data Center GPU Manager (DCGM), which offers health monitoring, telemetry, and diagnostics for GPU clusters. Frameworks like PyTorch and TensorFlow are separate AI development tools, not part of the GPU Operator, which focuses on infrastructure rather than application layers.

問題 #51
In managing an AI data center, you need to ensure continuous optimal performance and quickly respond to any potential issues. Which monitoring tool or approach would best suit the need to monitor GPU health, usage, and performance metrics across all deployed AI workloads?

- A. Prometheus with Node Exporter
- B. NVIDIA DCGM (Data Center GPU Manager)
- C. Nagios Monitoring System

- D. Splunk

答案：B

解題說明：
NVIDIA DCGM (Data Center GPU Manager) is the best tool for monitoring GPU health, usage, and performance metrics across AI workloads in a data center. DCGM provides real-time insights into GPU- specific metrics (e.g., memory usage, utilization, power, errors), designed for NVIDIA GPUs in enterprise environments like DGX clusters. It integrates with orchestration tools (e.g., Kubernetes) and supports proactive issue detection, as detailed in NVIDIA's "DCGM User Guide." Nagios (A) and Prometheus (B) are general-purpose monitoring tools, lacking GPU-specific depth. Splunk (C) is a log analytics platform, not optimized for GPU monitoring. DCGM is NVIDIA's dedicated solution for AI data center management.

問題 #52
When deploying high-density workloads in a data center, what are the three main resource constraints that need to be considered?

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

答案：A

解題說明：
High-density workloads (e.g., GPU clusters for AI) strain data center resources, primarily power (to supply dense servers), cooling (to dissipate heat from tightly packed hardware), and physical space (to house equipment). While processing speed, bandwidth, and other factors matter, power, cooling, and space are the physical constraints most critical to deployment feasibility.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Data Center Resource Constraints)

問題 #53
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