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The NVIDIA NCA-AIIO certification exam syllabus is changing with the passage of time. As a NCA-AIIO exam candidate you have to be aware of these NVIDIA NCA-AIIO exam changes. To give you complete knowledge about the NVIDIA NCA-AIIO Exam Topics, the ActualCollection has hired a team of experts that consistently work on these changes and add these changes in NVIDIA NCA-AIIO exam practice test questions.

NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q46-Q51):

NEW QUESTION # 46
A data center is designed to support large-scale AI training and inference workloads using a combination of GPUs, DPUs, and CPUs. During peak workloads, the system begins to experience bottlenecks. Which of the following scenarios most effectively uses GPUs and DPUs to resolve the issue?

- A. Offload network, storage, and security management from the CPU to the DPU, freeing up the CPU and GPU to focus on AI computation
- B. Transfer memory management from GPUs to DPUs to reduce the load on GPUs during peak times
- C. Use DPUs to take over the processing of certain AI models, allowing GPUs to focus solely on high- priority tasks
- D. Redistribute computational tasks from GPUs to DPUs to balance the workload evenly between both

Answer: A

Explanation:

Offloading network, storage, and security management from the CPU to the DPU, freeing up the CPU and GPU to focus on AI computation(C) most effectively resolves bottlenecks using GPUs and DPUs. Here' s a detailed breakdown:
* DPU Role: NVIDIA BlueField DPUs are specialized processors for accelerating data center tasks like networking (e.g., RDMA), storage (e.g., NVMe-oF), and security (e.g., encryption). During peak AI workloads, CPUs often get bogged down managing these I/O-intensive operations, starving GPUs of data or coordination. Offloading these to DPUs frees CPU cycles for preprocessing or orchestration and ensures GPUs receive data faster, reducing bottlenecks.
* GPU Focus: GPUs (e.g., A100) excel at AI compute (e.g., matrix operations). By keeping them focused on training/inference-unhindered by CPU delays-utilization improves. For example, faster network transfers via DPU-managed RDMA speed up multi-GPU synchronization (via NCCL).
* System Impact: This###(division of labor) leverages each component's strength: DPUshandle infrastructure, CPUs manage logic, and GPUs compute, eliminating contention during peak loads.
Why not the other options?
* A (Redistribute to DPUs): DPUs aren't designed for general AI compute, lacking the parallel cores of GPUs-inefficient and impractical.
* B (DPUs process models): DPUs can't run full AI models effectively; they're not compute-focused like GPUs.
* D (Memory management to DPUs): Memory management is a GPU-internal task (e.g., CUDA allocations); DPUs can't directly control it.
NVIDIA's DPU-GPU integration optimizes data center efficiency (C).

NEW QUESTION # 47
You are optimizing an AI data center that uses NVIDIA GPUs for energy efficiency. Which of the following practices would most effectively reduce energy consumption while maintaining performance?

- A. Disabling power capping to allow full power usage
- B. Running all GPUs at maximum clock speeds
- C. Enabling NVIDIA's Adaptive Power Management features
- D. Utilizing older GPUs to reduce power consumption

Answer: C

Explanation:
Enabling NVIDIA's Adaptive Power Management features (B) is the most effective practice to reduce energy consumption while maintaining performance. NVIDIA GPUs, such as the A100, support power management capabilities that dynamically adjust power usage based on workload demands. Features like Multi-Instance GPU (MIG) and power capping allow the GPU to scale clock speeds and voltage efficiently, minimizing energy waste during low-utilization periods without sacrificing performance for AI tasks. This is managed via tools like NVIDIA System Management Interface (nvidia-smi).
* Disabling power capping(A) allows GPUs to consume maximum power continuously, increasing energy use unnecessarily.
* Running GPUs at maximum clock speeds(C) boosts performance but significantly raises power consumption, countering efficiency goals.
* Utilizing older GPUs(D) may lower power draw but reduces performance and efficiency due to outdated architecture (e.g., less efficient FLOPS/watt).
NVIDIA's documentation emphasizes Adaptive Power Management for energy-efficient AI data centers (B).

NEW QUESTION # 48
Your organization is setting up an AI infrastructure to support a range of AI workloads, including data processing, model training, and inference. The infrastructure needs to be scalable, support distributed training, and handle large datasets efficiently. Which NVIDIA solution would be most suitable for managing and orchestrating this AI infrastructure?

- A. NVIDIA DGX Systems
- B. NVIDIA TensorRT
- C. NVIDIA RAPIDS
- D. NVIDIA DeepOps

Answer: D

Explanation:
NVIDIA DeepOps is the most suitable solution for managing and orchestrating an AI infrastructure that supports scalable, distributed training and efficient handling of large datasets. DeepOps is an open-source toolkit for deploying and managing GPU clusters (e.g., DGX systems) with orchestration platforms like Kubernetes and Slurm. It provides scripts and configurations to

automate setup, scaling, and operation of AI workloads, ensuring flexibility and efficiency, as outlined in NVIDIA's "DeepOps Documentation." TensorRT (B) optimizes inference, not infrastructure management. RAPIDS (C) accelerates data processing but lacks orchestration features. DGX Systems (D) are hardware platforms, not management tools. DeepOps aligns with NVIDIA's infrastructure management strategy.

NEW QUESTION # 49
You are managing an AI cluster where multiple jobs with varying resource demands are scheduled. Some jobs require exclusive GPU access, while others can share GPUs. Which of the following job scheduling strategies would best optimize GPU resource utilization across the cluster?

- A. Increase the default pod resource requests in Kubernetes
- B. Use FIFO (First In, First Out) Scheduling
- C. Enable GPU sharing and use NVIDIA GPU Operator with Kubernetes
- D. Schedule all jobs with dedicated GPU resources

Answer: C

Explanation:
Enabling GPU sharing and using NVIDIA GPU Operator with Kubernetes (C) optimizes resourceutilization by allowing flexible allocation of GPUs based on job requirements. The GPU Operator supports Multi- Instance GPU (MIG) mode on NVIDIA GPUs (e.g., A100), enabling jobs to share a single GPU when exclusive access isn't needed, while dedicating full GPUs to high-demand tasks. This dynamic scheduling, integrated with Kubernetes, balances utilization across the cluster efficiently.
* Dedicated GPU resources for all jobs(A) wastes capacity for shareable tasks, reducing efficiency.
* FIFO Scheduling(B) ignores resource demands, leading to suboptimal allocation.
* Increasing pod resource requests(D) may over-allocate resources, not addressing sharing or optimization.
NVIDIA's GPU Operator is designed for such mixed workloads (C).

NEW QUESTION # 50
You are comparing several regression models that predict the future sales of a product based on historical data. The models vary in complexity and computational requirements. Your goal is to select the model that provides the best balance between accuracy and the ability to generalize to new data. Which performance metric should you prioritize to select the most reliable regression model?

- A. Mean Squared Error (MSE)
- B. Cross-Entropy Loss
- C. R-squared (Coefficient of Determination)
- D. Accuracy

Answer: C

Explanation:
R-squared (Coefficient of Determination) is the performance metric to prioritize when selecting a regression model that balances accuracy and generalization. R-squared measures the proportion of variance in the dependent variable (sales) explained by the independent variables, ranging from 0 to 1. A higher R-squared indicates better fit, but when paired with techniques like cross-validation, italso reflects the model's ability to generalize to new data, avoiding overfitting. This aligns with NVIDIA's AI development best practices, which emphasize robust model evaluation for real-world deployment.
Mean Squared Error (MSE) (A) quantifies prediction error but does not directly assess generalization.
Accuracy (B) is for classification, not regression. Cross-Entropy Loss (D) is for classification tasks, irrelevant here. NVIDIA's "Deep Learning Institute (DLI)" training and "AI Infrastructure and Operations" materials recommend R-squared for regression model selection.

NEW QUESTION # 51
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