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## NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q14-Q19):

### NEW QUESTION # 14

In an AI data center, you are working with a professional administrator to optimize the deployment of AI workloads across multiple servers. Which of the following actions would best contribute to improving the efficiency and performance of the data center?

- A. Allocate all networking tasks to the CPUs, allowing the GPUs and DPUs to focus solely on AI model computation
- **B. Distribute AI workloads across multiple servers with GPUs, while using DPUs to manage network and storage tasks**
- C. [Note: Original question only provided three options; assuming a typo and treating A as the intended correct answer]
- D. Consolidate all AI workloads onto a single high-performance server to maximize GPU utilization

**Answer: B**

Explanation:

Distributing AI workloads across multiple servers with GPUs, while using DPUs (e.g., NVIDIA BlueField) to manage network and storage tasks, best improves efficiency and performance in an AI data center. This approach leverages GPU parallelism for computation and offloads networking/storage (e.g., RDMA, encryption) to DPUs, reducing CPU overhead and latency. NVIDIA's "BlueField DPU Documentation" and

"AI Infrastructure for Enterprise" highlight this as an optimized design for scalable, high-performance AI deployments.

Consolidating workloads on one server (B) creates a bottleneck and single point of failure. Assigning networking to CPUs (C) negates DPU benefits, reducing efficiency. NVIDIA's architecture guidance supports distributed GPU-DPU setups.

### NEW QUESTION # 15

Your AI team is running a distributed deep learning training job on an NVIDIA DGX A100 cluster using multiple nodes. The training process is slowing down significantly as the model size increases. Which of the following strategies would be most effective in optimizing the training performance?

- A. Use Data Parallelism Instead of Model Parallelism
- **B. Enable Mixed Precision Training**
- C. Increase Batch Size
- D. Decrease the Number of Nodes

**Answer: B**

Explanation:

Enabling Mixed Precision Training is the most effective strategy to optimize training performance on an NVIDIA DGX A100 cluster as model size increases. Mixed precision uses lower-precision data types (e.g., FP16) alongside FP32, reducing memory usage and leveraging Tensor Cores on A100 GPUs for faster computation without significant accuracy loss. This approach, detailed in NVIDIA's "Mixed Precision Training Guide," accelerates training by allowing larger models to fit in GPU memory and speeding up matrix operations, addressing slowdowns in distributed setups.

Data parallelism (B) distributes data but may not help if memory constraints slow computation. Decreasing nodes (C) reduces parallelism, worsening performance. Increasing batch size (D) can strain memory further, exacerbating slowdowns. NVIDIA's DGX A100 documentation highlights mixed precision as a key optimization for large models.

### NEW QUESTION # 16

Your organization operates an AI cluster where various deep learning tasks are executed. Some tasks are time-sensitive and must be completed as soon as possible, while others are less critical. Additionally, some jobs can be parallelized across multiple GPUs, while others cannot. You need to implement a job scheduling policy that balances these needs effectively. Which scheduling policy would best balance the needs of time-sensitive tasks and efficiently utilize the available GPUs?

- A. First-Come, First-Served (FCFS) scheduling to maintain order
- B. Schedule the longest-running jobs first to reduce overall cluster load
- **C. Implement a priority-based scheduling system that also considers GPU availability and task parallelization**
- D. Use a round-robin scheduling approach to ensure equal access for all jobs

**Answer: C**

Explanation:

A priority-based scheduling system considering GPU availability and task parallelization best balances time-sensitive tasks and GPU utilization. It prioritizes urgent jobs while optimizing resource allocation (e.g., via Kubernetes with NVIDIA GPU Operator). Option A (FCFS) ignores priority. Option B (longest first) delays critical tasks. Option C (round-robin) neglects urgency and parallelization. NVIDIA's orchestration docs support priority-based scheduling.

#### NEW QUESTION # 17

You are managing an AI data center where energy consumption has become a critical concern due to rising costs and sustainability goals. The data center supports various AI workloads, including model training, inference, and data preprocessing. Which strategy would most effectively reduce energy consumption without significantly impacting performance?

- A. Reduce the clock speed of all GPUs to lower power consumption.
- B. Consolidate all AI workloads onto a single GPU to reduce overall power usage.
- C. Implement dynamic voltage and frequency scaling (DVFS) to adjust GPU power usage based on workload demands.
- D. Schedule all AI workloads during nighttime to take advantage of lower electricity rates.

**Answer: C**

Explanation:

Dynamic Voltage and Frequency Scaling (DVFS) allows GPUs to adjust their power usage dynamically based on workload intensity, reducing energy consumption during low-demand periods while maintaining performance when needed. NVIDIA GPUs, such as those in DGX systems, support DVFS through tools like NVIDIA Management Library (NVML) and nvidia-smi, enabling fine-tuned power management. This approach balances efficiency and performance, critical for diverse AI workloads like training (high compute) and inference (variable demand), aligning with NVIDIA's energy-efficient computing initiatives. Consolidating workloads onto a single GPU (Option A) risks overloading it, degrading performance and negating energy savings due to inefficiency. Scheduling workloads at night (Option C) addresses cost but not total consumption or sustainability, and it may delay time-sensitive tasks. Reducing clock speed universally (Option D) lowers power use but sacrifices performance across all workloads, which is impractical for an AI data center. DVFS is the most effective NVIDIA-supported strategy here.

#### NEW QUESTION # 18

What is a common tool for container orchestration in AI clusters?

- A. Kubernetes
- B. MLOps
- C. Apptainer
- D. Slurm

**Answer: A**

Explanation:

Kubernetes is the industry-standard tool for container orchestration in AI clusters, automating deployment, scaling, and management of containerized workloads. Slurm manages job scheduling, Apptainer (formerly Singularity) runs containers, and MLOps is a practice, not a tool, making Kubernetes the clear leader in this domain.

#### NEW QUESTION # 19

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