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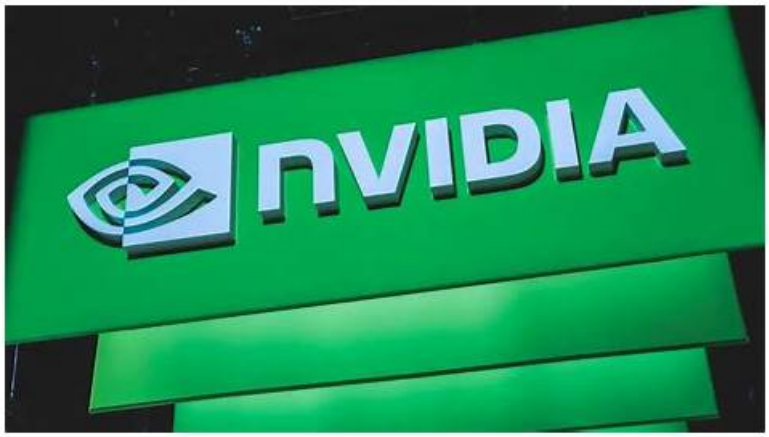

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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q35-Q40):

NEW QUESTION # 35
Your AI cluster is managed using Kubernetes with NVIDIA GPUs. Due to a sudden influx of jobs, your cluster experiences resource overcommitment, where more jobs are scheduled than the available GPU resources can handle. Which strategy would most effectively manage this situation to maintain cluster stability?

- A. Use Kubernetes Horizontal Pod Autoscaler Based on Memory Usage
- B. Increase the Maximum Number of Pods per Node
- C. Schedule Jobs in a Round-Robin Fashion Across Nodes
- D. Implement Resource Quotas and LimitRanges in Kubernetes

Answer: D

Explanation:
Implementing Resource Quotas and LimitRanges in Kubernetes is the most effective strategy to manage resource overcommitment

and maintain cluster stability in an NVIDIA GPU cluster. Resource Quotas restrict the total amount of resources (e.g., GPU, CPU, memory) that can beconsumed by namespaces, preventing over-scheduling across the cluster. LimitRanges enforce minimum and maximum resource usage per pod, ensuring that individual jobs do not exceed available GPU resources. This approach provides fine-grained control and prevents instability caused by resource exhaustion.
Increasing the maximum number of pods per node (A) could worsen overcommitment by allowing more jobs to schedule without resource checks. Round-robin scheduling (B) lacks resource awareness and may lead to uneven GPU utilization. Using Horizontal Pod Autoscaler based on memory usage (C) focuses on scaling pods, not managing GPU-specific overcommitment. NVIDIA's "DeepOps" and "AI Infrastructure and Operations Fundamentals" documentation recommend Resource Quotas and LimitRanges for stable GPU cluster management in Kubernetes.

NEW QUESTION # 36
You manage a large-scale AI infrastructure where several AI workloads are executed concurrently across multiple NVIDIA GPUs. Recently, you observe that certain GPUs are underutilized while others are overburdened, leading to suboptimal performance and extended processing times. Which of the following strategies is most effective in resolving this imbalance?

- A. Reducing the batch size for all AI workloads
- B. Implementing dynamic GPU load balancing across the infrastructure
- C. Disabling GPU overclocking to normalize performance
- D. Increasing the power limit on underutilized GPUs

Answer: B

Explanation:
Uneven GPU utilization in a multi-GPU infrastructure indicates poor workload distribution. Implementing dynamic GPU load balancing-using tools like NVIDIA Triton Inference Server or Kubernetes with GPU Operator-assigns tasks based on real-time GPU usage, ensuring balanced workloads and optimal performance. This strategy, common in DGX clusters, reduces processing times by preventing overburdening or idling.
Reducing batch size (Option B) lowers GPU demand uniformly but doesn't address imbalance and may reduce throughput. Increasing power limits (Option C) might boost underutilized GPUs slightly but doesn't fix distribution. Disabling overclocking (Option D) ensures consistency but not balance. Dynamic balancing is NVIDIA's recommended approach.

NEW QUESTION # 37
You are managing an AI data center where multiple GPUs are orchestrated across a large cluster to run various deep learning tasks. Which of the following actions best describes an efficient approach to cluster orchestration in this environment?

- A. Assign all jobs to the most powerful GPU in the cluster to maximize performance and minimize job completion time.
- B. Implement a Kubernetes-based orchestration system to dynamically allocate GPU resources based on workload demands.
- C. Prioritize job assignments to GPUs with the least power consumption to reduce energy costs.
- D. Use a round-robin scheduling algorithm to distribute jobs evenly across all GPUs, regardless of their workload requirements.

Answer: B

Explanation:
Implementing a Kubernetes-based orchestration system to dynamically allocate GPU resources based on workload demands is the most efficient approach for managing a multi-GPU AI cluster. Kubernetes, enhanced by NVIDIA's GPU Operator, supports dynamic scheduling, resource allocation, and scaling for deep learning tasks, ensuring optimal GPU utilization and adaptability.Option A (round-robin) ignores workload specifics, leading to inefficiency. Option B (least power) sacrifices performance for minor cost savings. Option D (most powerful GPU) creates bottlenecks and underutilizes other GPUs. NVIDIA's documentation on Kubernetes integration highlights its effectiveness for AI cluster orchestration.

NEW QUESTION # 38
You are assisting a senior data scientist in a project aimed at improving the efficiency of a deep learning model. The team is analyzing how different data preprocessing techniques impact the model's accuracy and training time. Your task is to identify which preprocessing techniques have the most significant effect on these metrics. Which method would be most effective in identifying the preprocessing techniques that significantly affect model accuracy and training time?

- A. Perform a multivariate regression analysis with preprocessing techniques as independent variables and accuracy/training time as dependent variables.
- B. Create a pie chart showing the distribution of preprocessing techniques used.
- C. Conduct a t-test between different preprocessing techniques.
- D. Use a line chart to plot training time for different preprocessing techniques.

Answer: A

Explanation:
Performing a multivariate regression analysis with preprocessing techniques as independent variables and accuracy/training time as dependent variables is the most effective method. This statistical approach quantifies the impact of each technique (e.g., normalization, augmentation) on both metrics, identifying significant contributors while accounting for interactions. NVIDIA's Deep Learning Performance Guide suggests such analyses for optimizing training pipelines on GPUs. Option A (line chart) visualizes trends but lacks statistical rigor. Option B (t-test) compares pairs, not multiple factors. Option D (pie chart) shows usage distribution, not impact. Regression aligns with NVIDIA's data-driven optimization strategies.

NEW QUESTION # 39
In an AI-focused data center, ensuring high data throughput is critical for feeding large datasets to training models efficiently. Which strategy would best optimize data throughput in this environment?

- A. Implement NVMe SSDs for faster data access and higher throughput.
- B. Implement a distributed file system without considering the underlying hardware.
- C. Use traditional HDD storage systems due to their high storage capacity.
- D. Use a RAID 5 configuration to increase redundancy and throughput.

Answer: A

Explanation:
High data throughput is essential in AI data centers to minimize I/O bottlenecks during model training, where large datasets must be rapidly accessed by GPUs. NVMe SSDs (Non-VolatileMemory Express Solid-State Drives) offer significantly higher read/write speeds and lower latency compared to traditional storage solutions, making them ideal for feeding data to NVIDIA GPUs efficiently. NVIDIA's AI infrastructure, such as DGX systems, often incorporates NVMe storage to support high-throughput workloads, ensuring that data loading keeps pace with GPU computation.
RAID 5 (Option A) provides redundancy and some throughput improvement but is slower than NVMe due to parity calculations and mechanical disk limitations, making it less optimal for AI. Traditional HDDs (Option C) have high capacity but lack the speed required for AI workloads, causing bottlenecks. A distributed file system (Option D) can enhance scalability, but without fast underlying hardware like NVMe, it won't maximize throughput. NVIDIA's Data Loading Library (DALI) further complements NVMe by accelerating data preprocessing on GPUs, reinforcing this strategy's effectiveness.

NEW QUESTION # 40
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