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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q44-Q49):

NEW QUESTION # 44
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 # 45
Your organization is building a hybrid cloud system that needs to handle a variety of tasks, including complex scientificsimul-ations, database management, and training large AI models. You need to allocate resources effectively. How do GPU and CPU architectures compare in terms of handling these different tasks?

- A. GPUs should be used exclusively for scientificsimul-ations, and CPUs for everything else.
- B. GPUs are superior for all types of workloads in this scenario.
- C. CPUs should be used for training AI models, while GPUs are better for database management.
- D. GPUs are better for parallel tasks like AI model training andsimul-ations, while CPUs are better for sequential tasks like database management.

Answer: D

Explanation:
GPUs excel at parallel tasks like AI model training and scientificsimul-ationsdue to their thousands of cores optimized for simultaneous computations (e.g., matrix operations), while CPUs are better suited for sequential tasks like database management, which rely on high clock speeds and single-threaded performance. NVIDIA' s architecture documentation highlights GPUs' role in accelerating parallel workloads (e.g., via CUDA), as seen in DGX systems for AI training, while CPUs handle general-purpose tasks efficiently. Option B reverses this, contradicting NVIDIA's design. Option C oversimplifies by limiting GPUs tosimul-ations. Option D ignores CPUs' strengths. NVIDIA's hybrid cloud solutions align with Option A for effective resource allocation.

NEW QUESTION # 46
Which of the following statements is true about Kubernetes orchestration?

- A. It is bare-metal based but it supports containers.
- B. It does load balancing to distribute traffic across containers.
- C. It has advanced scheduling capabilities to assign jobs to available resources.
- D. It has no inferencing capabilities.

Answer: B,C

Explanation:
Kubernetes excels in container orchestration with advanced scheduling (assigning workloads based on resource needs and availability) and load balancing (distributing traffic across pods via Services). It's not inherently bare-metal (it runs on various platforms), and inferencing capability depends on applications, not Kubernetes itself, making B and D the true statements.
(Reference: NVIDIA AI Infrastructure and Operations Study Guide, Section on Kubernetes Orchestration)

NEW QUESTION # 47
A research team is deploying a deep learning model on an NVIDIA DGX A100 system. The model has high computational demands and requires efficient use of all available GPUs. During the deployment, they notice that the GPUs are underutilized, and the inter-GPU communication seems to be a bottleneck. The software stack includes TensorFlow, CUDA, NCCL, and cuDNN. Which of the following actions would most likely optimize the inter-GPU communication and improve overall GPU utilization?

- A. Increase the number of data parallel jobs running simultaneously.

- B. Switch to using a single GPU to reduce complexity.
- C. Ensure NCCL is configured correctly for optimal bandwidth utilization.
- D. Disable cuDNN to streamline GPU operations.

Answer: C

Explanation:
Ensuring NVIDIA Collective Communications Library (NCCL) is configured correctly for optimal bandwidth utilization is the most effective action to optimize inter-GPU communication and improve utilization on an NVIDIA DGX A100. NCCL accelerates multi-GPU operations by optimizing data transfers (e.g., via NVLink, InfiniBand), critical for high-demand models. Underutilization and bottlenecks suggest suboptimal NCCL settings (e.g., topology, ring order). Option A (disable cuDNN) hampers performance, as cuDNN accelerates neural network primitives. Option B (more data parallel jobs) may worsen communication overhead. Option D (single GPU) reduces scalability. NVIDIA's DGX A100 documentation recommends NCCL tuning for distributed training efficiency.

NEW QUESTION # 48
Your organization is running a mixed workload environment that includes both general-purpose computing tasks (like database management) and specialized tasks (like AI model inference). You need to decide between investing in more CPUs or GPUs to optimize performance and cost-efficiency. How does the architecture of GPUs compare to that of CPUs in this scenario?

- A. GPUs are optimized for general-purpose computing and can replace CPUs entirely
- B. GPUs are better suited for workloads requiring massive parallelism, while CPUs handle single-threaded tasks more efficiently
- C. CPUs have more cores than GPUs, making them better for all types of workloads
- D. CPUs and GPUs have identical architectures but differ only in power consumption

Answer: B

Explanation:
GPUs are better suited for workloads requiring massive parallelism (e.g., AI model inference), while CPUs handle single-threaded tasks (e.g., database management) more efficiently. GPUs, like NVIDIA's A100, feature thousands of smaller cores optimized for parallel computation, making them ideal for AI tasks involving matrix operations. CPUs, with fewer, more powerful cores, excel at sequential, latency-sensitive tasks. In a mixed workload, investing in GPUs for AI and retainingCPUs for general-purpose tasks optimizes performance and cost, per NVIDIA's "GPU Architecture Overview" and "AI Infrastructure for Enterprise." Options (B), (C), and (D) misrepresent GPU/CPU differences: architectures differ significantly, GPUs don't replace CPUs for general tasks, and GPUs have more cores than CPUs. NVIDIA's documentation supports this hybrid approach.

NEW QUESTION # 49
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