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NVIDIA-Certified Associate AI Infrastructure and Operations Sample Questions (Q47-Q52):

NEW QUESTION # 47

You are working on a high-performance AI workload that requires the deployment of deep learning models on a multi-GPU cluster. The workload needs to scale across multiple nodes efficiently while maintaining high throughput and low latency. However, during the deployment, you notice that the GPU utilization is uneven across the nodes, leading to performance bottlenecks. Which of the following strategies would be the most effective in addressing the uneven GPU utilization in this multi-node AI deployment?

- A. Increase the batch size of the workload.
- B. Use a CPU-based load balancer to distribute tasks.
- C. Enable GPU affinity in the job scheduler.
- D. Enable mixed precision training.

Answer: C

Explanation:

Uneven GPU utilization across nodes in a multi-GPU cluster often results from poor task-to-GPU mapping, where some nodes are overloaded while others are underutilized. Enabling GPU affinity in the job scheduler (e.g., Slurm, Kubernetes with NVIDIA GPU Operator) ensures that tasks are pinned to specific GPUs, optimizing resource allocation and balancing utilization. This approach leverages NVIDIA's infrastructure tools to enforce locality, reducing communication overhead (via NVLink or InfiniBand) and ensuring each GPU is assigned an appropriate workload share, improving throughput and latency.

A CPU-based load balancer (Option A) is less effective for GPU-specific tasks, as it lacks awareness of GPU states. Increasing batch size (Option C) might improve throughput for individual GPUs but doesn't address inter-node imbalances and could increase latency. Mixed precision training (Option D) enhances performance per GPU but doesn't solve distribution issues. GPU affinity, supported by NVIDIA's scheduling frameworks, directly tackles the root cause.

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. CPUs have more cores than GPUs, making them better for all types of workloads
- **B. GPUs are better suited for workloads requiring massive parallelism, while CPUs handle single-threaded tasks more efficiently**
- C. GPUs are optimized for general-purpose computing and can replace CPUs entirely
- 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 retaining CPUs 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

When setting up a virtualized environment with NVIDIA GPUs, you notice a significant drop in performance compared to running workloads on bare metal. Which factor is most likely contributing to the performance degradation?

- A. Using high-performance networking.
- B. Running VMs on SSD storage.
- C. Enabling high availability features.
- **D. Overcommitting GPU resources.**

Answer: D

Explanation:

Overcommitting GPU resources is the most likely cause of performance degradation in a virtualized environment with NVIDIA GPUs. In virtualization setups using NVIDIA vGPU technology, overcommitting occurs when more virtual machines (VMs) request GPU resources than are physically available, leading to contention and reduced performance compared to bare metal. NVIDIA's vGPU documentation warns that proper resource allocation is critical to avoid this issue, as GPUs are not as easily time-sliced as CPUs. Option A (high-performance networking) typically enhances, not degrades, performance. Option C (SSD storage) improves I/O but doesn't directly impact GPU performance. Option D (high availability) adds redundancy, not significant GPU overhead. NVIDIA's guidelines emphasize avoiding overcommitment for optimal virtualized AI workloads.

NEW QUESTION # 50

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

Answer: A

Explanation:

Enabling GPU sharing and using NVIDIA GPU Operator with Kubernetes (C) optimizes resource utilization 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 # 51

In an effort to improve energy efficiency in your AI infrastructure using NVIDIA GPUs, you're considering several strategies. Which of the following would most effectively balance energy efficiency with maintaining performance?

- A. Disabling all energy-saving features to ensure maximum performance
- **B. Employing NVIDIA GPU Boost technology to dynamically adjust clock speeds**
- C. Enabling deep sleep mode on all GPUs during processing times
- D. Running all GPUs at the lowest possible clock speeds

Answer: B

Explanation:

Employing NVIDIA GPU Boost technology to dynamically adjust clock speeds is the most effective strategy to balance energy efficiency and performance in an AI infrastructure. GPU Boost, available on NVIDIA GPUs like A100, adjusts clock speeds and voltage based on workload demands and thermal conditions, optimizing Performance Per Watt. This ensures high performance when needed while reducing power use during lighter loads, as detailed in NVIDIA's "GPU Boost Documentation" and "AI Infrastructure for Enterprise." Deep sleep mode (A) during processing disrupts performance. Disabling energy-saving features (B) wastes power. Lowest clock speeds (C) sacrifice performance unnecessarily. GPU Boost is NVIDIA's recommended approach for efficiency.

NEW QUESTION # 52

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