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NVIDIA AI Operations Sample Questions (Q10-Q15):

NEW QUESTION # 10

A BCM pipeline running a large language model (LLM) experiences significant latency during inference. Profiling reveals that the 'torch.compile' is taking too much memory and time. What optimization strategies would you consider to improve inference performance?

- A. Use techniques like speculative decoding or continuous batching to increase throughput.
- B. Utilize quantization techniques (e.g., INT8 or FP16) to reduce the model size and memory footprint.
- C. All of the above.
- D. Try different 'mode' arguments for 'torch.compile' such as 'reduce-overhead' or 'max-autotune'.

- E. Employ model parallelism to distribute the LLM across multiple GPUs.

Answer: C

Explanation:

Quantization reduces model size. Model parallelism distributes the load. Speculative decoding and continuous batching increase throughput. And trying different compile modes can yield better performance.

NEW QUESTION # 11

You have a Kubernetes cluster with several nodes equipped with NVIDIA GPUs. You want to ensure that pods requesting GPUs are only scheduled on nodes that have the appropriate NVIDIA drivers and the NVIDIA Container Toolkit installed. Which Kubernetes feature(s) can you leverage to achieve this?

- A. Network policies and ingress controllers.
- **B. Taints and tolerations.**
- C. Resource quotas and limit ranges.
- D. Pod priority and preemption.
- **E. Node affinity and tolerations.**

Answer: B,E

Explanation:

The correct answers are A and E. Taints and Tolerations ensure that pods are not scheduled onto inappropriate nodes. Nodes can be tainted to indicate the lack of NVIDIA drivers or the Container Toolkit, and pods requiring GPUs can tolerate these taints to indicate their compatibility. Node Affinity, in tandem with taints, provides more fine-grained control over scheduling. You can use node affinity to prefer or require that pods with GPU requests are scheduled on nodes labeled with specific NVIDIA hardware or driver versions. Options B, C, and D are not directly relevant to GPU-aware scheduling.

NEW QUESTION # 12

When configuring node auto-scaling within BCM for an AI cluster, which of the following metrics would be the most effective indicators for triggering scale-up events, ensuring efficient resource utilization for AI workloads?

- A. Disk I/O across the cluster.
- B. Memory utilization across the cluster.
- C. CPU utilization across the cluster.
- **D. GPU utilization across the cluster.**
- E. Network I/O across the cluster.

Answer: D

Explanation:

For AI workloads, GPU utilization is the primary driver. While CPU, memory, network, and disk I/O are relevant, GPU bottleneck has most impact on model training and inference performance. Autoscaling should primarily react to GPU demand to provide optimal performance.

NEW QUESTION # 13

Which BCM configuration file defines the operating system image used for provisioning new nodes?

- **A. cluster.yaml**
- B. provisioning.yaml
- C. node.yaml
- D. bcm.conf
- E. image.yaml

Answer: A

Explanation:

The 'cluster.yaml' file in BCM typically contains the definition of the operating system image, including the URL or path to the image

file, along with other cluster-level configuration details like network settings and Kubernetes version.

NEW QUESTION # 14

You've noticed consistently high GPU utilization but low overall throughput in your AI inference service. You suspect that a CUDA kernel is not efficiently utilizing the GPU's resources. Which profiling tool would provide the MOST detailed insights into kernel-level performance?

- A. NVIDIA Nsight Systems
- B. DCGM
- C. nvidia-smi
- D. 'vmstat'
- E. 'top'

Answer: A

Explanation:

NVIDIA Nsight Systems (and its successor Nsight Compute for kernel-level analysis) is specifically designed for profiling CUDA kernels. It provides detailed information on kernel execution time, memory access patterns, and instruction-level performance, allowing you to identify inefficiencies. 'nvidia-smi' and DCGM provide high-level GPU monitoring, while 'top' and 'vmstat' are system-level tools.

NEW QUESTION # 15

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