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NVIDIA AI Operations Sample Questions (Q36-Q41):

NEW QUESTION # 36

You are tuning the storage performance of a Kubernetes cluster that uses Longhorn as the storage backend. You've noticed inconsistent read latencies. What Longhorn specific configurations could you adjust to potentially improve the consistency and reduce latency for read operations?

- A. Enable 'data locality' to ensure that replicas are preferably placed on the same node as the pod accessing the volume, reducing network latency.
- B. Adjust the 'replica-auto-balance' setting to redistribute replicas more evenly across nodes.
- C. Reduce the size of the Longhorn volumes to decrease the amount of data that needs to be read.
- D. Increase the number of replicas for each Longhorn volume to improve data redundancy and read parallelism.
- E. Disable Longhorn's built-in monitoring to reduce overhead.

Answer: A,B,D

Explanation:

More replicas increase read parallelism. 'replica-auto-balance' ensures replicas are well-distributed. 'data locality' minimizes network hops for reads. It is not beneficial to reduce volume size, as that is required. Disabling built-in monitoring is also a bad idea.

NEW QUESTION # 37

You're deploying a multi-GPU VMI container using PyTorch's 'torch.distributed' library for distributed training. You're using 'torch.distributed.launch' to start the training processes. However, you encounter the following error: 'RuntimeError: Address already in use'. What's the MOST likely cause and how can you resolve it?

- A. This error is not related to VMI containers at all.
- B. The error is due to multiple processes trying to bind to the same port for inter-process communication. Specify a unique port using the '-master_port' argument in 'torch.distributed.launch' or setting the 'MASTER_PORT' environment variable.
- C. The error indicates a conflict with the NVIDIA driver. Update to the latest driver version.
- D. The error means the container doesn't have enough memory. Increase the container's memory limit.
- E. The error is related to an incorrect CUDA version. Ensure the CUDA version inside the container matches the host system.

Answer: B

Explanation:

The 'Address already in use' error in 'torch.distributed' typically arises when multiple processes attempt to bind to the same port for communication. Specifying a unique port for each distributed training job using '-master_port' or the 'MASTER_PORT' environment variable resolves this conflict. This prevents processes from interfering with each other.

NEW QUESTION # 38

Which of the following statements regarding the NVIDIA Device Plugin for Kubernetes are correct?

- A. It allows Kubernetes to be aware of the NVIDIA GPUs present on the nodes.
- B. It exposes GPUs as schedulable resources to Kubernetes.
- C. It replaces the need for the NVIDIA Container Toolkit.
- D. It ensures that containers have the necessary NVIDIA libraries and tools.
- E. It automatically installs the NVIDIA drivers on the nodes.

Answer: A,B

Explanation:

The correct answers are A and C. The NVIDIA Device Plugin discovers NVIDIA GPUs on each node and advertises them as resources to the Kubernetes scheduler. It enables Kubernetes to allocate GPUs to containers. It does not install drivers (that's a separate process). It works with the NVIDIA Container Toolkit to provide the necessary libraries within the container. It does not replace the NVIDIA Container Toolkit; they work in conjunction.

NEW QUESTION # 39

A BCM pipeline is failing with 'CUDA out of memory' errors, even though 'nvidia-smi' reports available GPU memory. What steps should you take to diagnose and resolve this issue?

- A. Enable CUDA memory pooling within the BCM framework.
- B. Increase the shared memory allocation for the BCM pipeline.
- C. Upgrade the GPU driver to the latest version.
- D. Reduce the batch size in the BCM pipeline configuration.

- E, A, B and C

Answer: E

Explanation:

Reducing batch size, enabling CUDA memory pooling, and increasing shared memory allocation can all alleviate CUDA out-of-memory errors. CUDA memory pooling allows for more efficient memory reuse. Increasing shared memory can avoid allocation limits within the BCM pipeline.

NEW QUESTION # 40

Your BCM data pipeline, orchestrating various data transformation steps before feeding it to a deep learning model for training, utilizes both CPU and GPU resources. After a recent upgrade, some of the stages running on the CPU are experiencing performance regression. You want to pinpoint the exact stage causing the slowdown and understand resource utilization. Considering it's an NVIDIA environment and you don't have access to advanced profiling tools, what lightweight approach can you take to gain visibility?

- A. Implement simple logging statements within each CPU stage to record start and end times, allowing for manual calculation of execution duration.
- B. Utilize 'nvidia-smi' to monitor GPU utilization and identify potential bottlenecks.
- C. Employ Python's 'timeit' module to measure the execution time of individual stages in the CPU-bound portions of the pipeline.
- D. Use basic system utilities like 'top' or 'htop' to monitor CPU and memory utilization for each process related to the data pipeline.
- E, B, C and D.

Answer: E

Explanation:

'nvidia-smi' is mainly useful for GPU monitoring. Basic system tools ('top', 'htop') reveal CPU and memory usage. 'timeit' accurately measures the duration of specific code snippets. Simple logging provides a clear timeline of execution.

NEW QUESTION # 41

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