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NVIDIA AI Operations Sample Questions (Q62-Q67):

NEW QUESTION # 62

You are designing storage for an AI data center focused on training large language models (LLMs). You need to optimize for both capacity and speed. Which storage technology is most suitable for the training data itself, considering the need for high throughput and parallel access?

- A. NVMe-based parallel file system (e.g., BeeGFS, Lustre) directly attached to compute nodes
- B. Object storage (e.g., AWS S3, Ceph) accessed over the internet
- C. Traditional Hard Disk Drives (HDDs) in a RAID 5 configuration
- D. Tape storage
- E. Network File System (NFS) over a 1 Gbps network

Answer: A

Explanation:

NVMe-based parallel file systems offer the highest throughput and lowest latency, crucial for feeding data to GPUs during LLM training. HDDs and NFS have significant performance bottlenecks, object storage is not optimized for the access patterns of training, and tape is for archival, not active use.

NEW QUESTION # 63

Your BCM pipeline includes a stage that performs data augmentation. You suspect this stage is a bottleneck. How can you profile and optimize this stage?

- A. Adjust the data augmentation parameters (e.g., number of augmentations) to reduce the computational load.
- B. All of the above.
- C. Cache the augmented data to avoid redundant computations.
- D. Use NVIDIA Nsight Systems to profile the execution of the data augmentation stage.
- E. Implement data augmentation on the GPU using libraries like DALI or cuCIM.

Answer: B

Explanation:

Nsight Systems helps identify performance bottlenecks. GPU acceleration speeds up computations. Adjusting parameters reduces load. Caching avoids redundant work. All are valid optimization strategies.

NEW QUESTION # 64

An organization has multiple containers and wants to view STDIN, STDOUT, and STDERR I/O streams of a specific container. What command should be used?

- A. docker inspect CONTAINER-NAME
- B. docker top CONTAINER-NAME
- C. docker stats CONTAINER-NAME
- D. docker logs CONTAINER-NAME

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The docker logs CONTAINER-NAME command retrieves the standard output (STDOUT) and standard error (STDERR) streams of a running or stopped container. It is the primary tool for inspecting container I/O logs for debugging and monitoring purposes. docker top shows running processes, docker stats shows resource usage, and docker inspect shows metadata/configuration.

NEW QUESTION # 65

You are setting up a Kubernetes cluster on NVIDIA DGX systems using BCM, and you need to initialize the control-plane nodes. What is the most important step to take before initializing these nodes?

- A. Set up a load balancer before initializing any control-plane node.
- B. Ensure that Docker is installed and running on all control-plane nodes.
- C. **Disable swap on all control-plane nodes before initializing them.**
- D. Configure each control-plane node with its own external IP address.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Disabling swap on all control-plane nodes is a critical prerequisite before initializing Kubernetes control-plane nodes. Kubernetes requires swap to be disabled to maintain performance and stability. Failure to disable swap can cause kubeadm initialization to fail or lead to unpredictable cluster behavior.

NEW QUESTION # 66

You are encountering issues with a DOCA application failing to initialize on a BlueField-3 DPU. The error logs indicate a problem with allocating memory. Which of the following steps would be most effective in diagnosing the root cause?

- A. Disable SELinux on the DPU to eliminate potential permission issues affecting memory allocation.
- B. **Check the DPU's memory usage using tools like 'free -m' or 'top' to identify potential memory exhaustion.**
- C. Examine the DOCA application code for potential memory leaks or incorrect memory allocation sizes.
- D. **Verify that the DOCA application is requesting memory from the appropriate memory domain (e.g., DOCA MD) and that sufficient memory is available in that domain.**
- E. Reinstall the DOCA SDK on the DPU to ensure that all memory management libraries are correctly installed.

Answer: B,C,D

Explanation:

Memory allocation issues can stem from various causes, including memory exhaustion on the DPU, memory leaks in the application code, or insufficient memory within the configured memory domain. Therefore, checking memory usage, examining the code, and verifying memory domain configurations are crucial steps in diagnosing the problem.

NEW QUESTION # 67

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