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NVIDIA AI Operations Sample Questions (Q64-Q69):

NEW QUESTION # 64

You are running a distributed TensorFlow training job on your Kubernetes cluster. The job consists of a parameter server and multiple worker pods. To maximize GPU utilization and ensure efficient communication, you want to place the parameter server and workers on nodes that are as close as possible within the network topology. Which Kubernetes feature can assist you in achieving this?

- A. NodeSelector.
- B. Pod Priority.
- C. Topology Spread Constraints.
- D. Resource Quotas.
- E. Pod anti-affinity.

Answer: C

Explanation:

The correct answer is C. Topology Spread Constraints allow you to control how pods are spread across your cluster based on topology domains like nodes, racks, or zones. By specifying the relevant topology domain (e.g., for nodes), you can encourage the scheduler to place related pods (parameter server and workers) on the same or nearby nodes. Pod anti-affinity (A) would work to keep pods separated. NodeSelector (B) can place pods on specific nodes, but doesn't inherently understand network topology. Resource Quotas (D) and Pod Priority (E) don't directly address pod placement based on network proximity.

NEW QUESTION # 65

You have a Run.ai cluster integrated with NVIDIA's Cluster Manager (ACM). A data scientist reports that their job is being preempted frequently, even though they have a high-priority quota. What are the MOST likely reasons for this preemption, assuming ACM is configured correctly?

- A. Another job with a higher guaranteed quota and higher priority needs the resources.
- B. The job is using an outdated CUDA driver version.
- C. The job is exceeding its memory limits.
- D. A higher priority job is requesting resources and preemption is enabled for that queue.
- E. The node where the job is running is being drained for maintenance.

Answer: A,D,E

Explanation:

Preemption in Run.ai with ACM is typically triggered by: Another job with a higher guaranteed quota and higher priority needing the resources (ACM prioritizes based on quota and priority). The node being drained (Kubernetes initiates preemption to safely evacuate pods before maintenance). A higher priority job needing resources and preemption is enabled. Exceeding memory limits usually results in an OOM error, not preemption. An outdated CUDA driver could cause errors, but not typically preemption. Note that OOM can occur on containers when the available memory is exhausted, which can cause them to be killed

NEW QUESTION # 66

You're running a Docker container with a deep learning model. While the model trains successfully, you observe that the GPU utilization fluctuates significantly, and the training process is slower than expected. What could be the cause and how would you address it?

- A. There is CPU contention. Use 'taskset to bind the data loading process to specific CPU cores to reduce CPU switching overhead.
- B. The Docker container is not receiving enough CPU resources. Increase the CPU shares or CPU quota allocated to the container.
- C. The model is not large enough to saturate the GPU. Consider using a larger model or increasing the complexity of the

computations.

- D. The data loading pipeline is a bottleneck. Optimize data loading by using asynchronous data loaders and prefetching data to the GPU.
- E. The batch size is too small. Increase the batch size to improve GPU utilization, but be mindful of GPU memory limitations.

Answer: A,C,D,E

Explanation:

Fluctuating GPU utilization suggests that the GPU is not being consistently fed with data or computations. Data loading bottlenecks (A), small batch sizes (B), or an under-utilizing model (C) can all cause this. CPU contention (D) may be the culprit.

NEW QUESTION # 67

A system administrator is troubleshooting a Docker container that crashes unexpectedly due to a segmentation fault. They want to generate and analyze core dumps to identify the root cause of the crash.

Why would generating core dumps be a critical step in troubleshooting this issue?

- A. Core dumps capture the memory state of the process at the time of the crash.
- B. Core dumps prevent future crashes by stopping any further execution of the faulty process.
- C. Core dumps provide real-time logs that can be used to monitor ongoing application performance.
- D. Core dumps restore the process to its previous state, often fixing the error-causing crash.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Core dumps capture the memory state of a process at the time of its crash, providing a snapshot useful for post-mortem debugging. Analyzing core dumps helps identify the cause of segmentation faults or other critical errors by revealing what the process was doing at failure, including stack traces, variable states, and memory content.

NEW QUESTION # 68

What must be done before installing new versions of DOCA drivers on a BlueField DPU?

- A. Uninstall any previous versions of DOCA drivers.
- B. Disable network interfaces during installation.
- C. Re-flash the firmware every time.
- D. Reboot the host system.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Before installing new versions of DOCA drivers on NVIDIA BlueField DPUs, it is required to uninstall any previous versions of DOCA drivers to prevent conflicts and ensure a clean upgrade. This ensures that the new installation is not affected by leftover files or configurations from earlier versions. Re-flashing firmware or disabling network interfaces is not always required before every driver installation. Rebooting the host system might be recommended after installation but is not a prerequisite before installing drivers.

NEW QUESTION # 69

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