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NVIDIA AI Infrastructure Sample Questions (Q58-Q63):

NEW QUESTION # 58

You are using a custom container runtime other than Docker (e.g., containerd) and need to integrate it with the NVIDIA Container Toolkit.

What command would you use to configure the NVIDIA Container Toolkit for this runtime? (Assume your runtime configuration file is located at '/etc/containerd/config.toml')

- A. 'nvidia-docker runtime configure -runtime=containerd'
- B. 'nvidia-ctl runtime config -runtime=containerd -set-default'
- C. 'nvidia-ctl runtime install -runtime=containerd'
- D. 'nvidia-ctl runtime configure'
- E. 'nvidia-ctl runtime configure -runtime=custom -config=/etc/containerd/config.toml'

Answer: E

Explanation:

The 'nvidia-ctl runtime configure' command is used to configure the NVIDIA Container Toolkit for different container runtimes. When the runtime is not a standard one, the '-runtime=custom' option must be used, and you also provide the path to the configuration file using 'config=/etc/containerd/config.toml'. There is no 'install' or 'config' subcommand under 'nvidia-ctl runtime' for

runtime selection.

NEW QUESTION # 59

A system administrator receives an alert about a potential hardware fault on an NVIDIA DGX A100. The GPU performance seems degraded, and the system fans are operating loudly. What step should be recommended to identify and troubleshoot the hardware fault?

- A. Run a deep learning workload to stress test the GPUs and check whether the issue persists.
- B. Increase the fan speed to maximum and check whether the performance improves.
- C. Check the NVIDIA System Management Interface (nvidia-smi) for GPU status and temperatures.
- D. Power drain then restart the DGX and check if the performance degradation resolves.

Answer: C

Explanation:

When a DGX system exhibits high fan speeds and performance degradation, it is typically engaging in Thermal Throttling. High-performance GPUs like the A100 or H100 will automatically reduce their clock speeds (and thus performance) if they exceed safe temperature thresholds. The first and most critical diagnostic step is to run `nvidia-smi`. This utility provides immediate, real-time telemetry on GPU temperatures, power draw, and "Clocks Throttle Reasons." By reviewing the output, an administrator can see if "Thermal" is listed as the reason for reduced clocks. This identifies whether the issue is environmental (blocked airflow/hot aisle temperature) or hardware-specific (a failed GPU thermal interface or a dead internal fan). Running more workloads (Option A) would exacerbate the heat, while a power drain (Option C) is a "last resort" that doesn't provide diagnostic data. `nvidia-smi` provides the evidentiary data needed to determine if an RMA (Return Merchandise Authorization) is required for the GPU tray.

NEW QUESTION # 60

Consider a scenario where you are running a CUDA application on an NVIDIA GPU. The application compiles successfully but crashes during runtime with a `*CUDA ERROR ILLEGAL ADDRESS*` error. You've carefully reviewed your code and can't find any obvious out- of-bounds memory accesses. What advanced debugging techniques could help you pinpoint the source of this error?

- A. Reduce the block size used in CUDA kernels to decrease the likelihood of shared memory conflicts.
- B. Use `'cuda-memcheck'` to detect memory access errors at runtime.
- C. Enable ECC (Error Correction Code) memory on the GPU to detect and correct memory errors.
- D. Employ the CUDA Debugger (`cuda-gdb`) to step through the code and inspect variable values and memory contents.
- E. Utilize NVIDIA Nsight Systems to profile the application and identify memory allocation patterns.

Answer: B,D,E

Explanation:

`'cuda-memcheck'` (A) is specifically designed to detect memory access errors. `'cuda-gdb'` (B) allows for detailed code inspection. NVIDIA Nsight Systems (C) provides profiling information that can help identify memory allocation issues that lead to the error. Enabling ECC (D) might mask the symptom but doesn't fix the underlying code error, also ECC is enabled by default, so that's a red herring. Reducing block size (E) is only relevant if shared memory is involved and potentially overflowing.

NEW QUESTION # 61

You are tasked with upgrading the NVIDIA driver on a Kubernetes node hosting GPU-accelerated AI workloads. To minimize downtime and ensure a smooth transition, which sequence of steps should you follow?

- A. Upgrade the driver directly on the node, reboot the node, and let Kubernetes automatically reschedule the workloads.
- B. Delete all pods running on the node, upgrade the driver, reboot the node, and recreate the pods.
- C. Drain the node, upgrade the driver, reboot the node, and uncorordon it.
- D. Cordon the node, upgrade the driver, reboot the node, and uncorordon it.
- E. Upgrade the NVIDIA container toolkit, then upgrade the driver, reboot the node, and uncorordon it.

Answer: D

Explanation:

Cordoning the node prevents new pods from being scheduled on it. After upgrading the driver and rebooting, uncordoning the node allows Kubernetes to resume scheduling workloads. Draining the node before upgrading can cause unnecessary downtime if pods are migrated before the upgrade process starts. The NVIDIA container toolkit must be compatible to the NVIDIA driver, but the upgrade sequence follows Option C steps.

NEW QUESTION # 62

A user reports that their GPU-accelerated application is crashing with a CUDA error related to 'out of memory'. You have confirmed that the GPU has sufficient physical memory. What are the likely causes and troubleshooting steps?

- A. The process has exceeded the maximum number of GPU contexts allowed. Reduce the number of concurrent CUDA applications running on the GPU.
- B. The system's virtual memory is exhausted. Increase the swap space.
- C. The CUDA driver version is incompatible with the CUDA runtime version used by the application. Update the CUDA driver to match the runtime version.
- **D. The application is requesting a larger block of memory than is available in a single allocation. Try breaking the allocation into smaller chunks or using managed memory.**
- **E. The application is leaking GPU memory. Use a memory profiling tool like 'cuda-memcheck' to identify the source of the leak.**

Answer: D,E

Explanation:

Memory leaks and single-allocation limits are common causes of 'out of memory' errors, even when sufficient physical memory exists. 'cuda-memcheck' is specifically designed to find memory errors in CUDA applications. While driver incompatibility is possible, leaks and allocation size limits are more frequent occurrences.

NEW QUESTION # 63

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