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NVIDIA AI Infrastructure Sample Questions (Q105-Q110):

NEW QUESTION # 105

After successfully installing the NVIDIA Container Toolkit and configuring the Docker runtime, you attempt to run a container that requires GPU access. However, the container fails to start with an error indicating that no GPUs are detected. You've verified that 'nvidia-smi' works on the host. Which of the following could be potential causes for this issue? (Select all that apply)

- A. The NVIDIA Container Toolkit package is corrupted and needs to be reinstalled.
- B. The container image itself is missing the necessary CUDA libraries.
- C. The NVIDIA drivers are not compatible with the kernel version running on the host.
- D. The Docker daemon was not restarted after configuring the NVIDIA runtime.
- E. The '-gpus all' flag was not included when running the 'docker run' command.

Answer: C,D,E**Explanation:**

Several factors can cause this issue. A driver-kernel incompatibility (A) prevents the NVIDIA drivers from properly communicating with the hardware. Forgetting to restart the Docker daemon (B) means the configuration changes applied by 'nvidia-ctl' are not active. The '-gpus all' (or equivalent) flag (C) is mandatory to explicitly request GPU resources for the container. Corrupted toolkit (D) would likely present installation failures earlier. Missing CUDA libraries (E) would likely lead to runtime errors within the container, not a failure to detect the GPUs in the first place.

NEW QUESTION # 106

You've replaced a faulty NVIDIA Quadro RTX 8000 GPU with an identical model in a workstation. The system boots, and 'nvidia-smi' recognizes the new GPU. However, when rendering complex 3D scenes in Maya, you observe significantly lower performance compared to before the replacement. Profiling with the NVIDIA Nsight Graphics debugger shows that the GPU is only utilizing a small fraction of its available memory bandwidth. What are the TWO most likely contributing factors?

- A. The new GPU's PCIe link speed is operating at a lower generation (e.g., Gen3 instead of Gen4).
- B. The Maya scene file contains corrupted or inefficient geometry.
- C. The newly installed GPU's VBIOS has not been properly flashed, causing an incompatibility issue.
- D. The workstation's power plan is set to 'Power Saver,' limiting GPU performance.
- E. The NVIDIA OptiX denoiser is not properly configured or enabled.

Answer: A,D**Explanation:**

Low memory bandwidth utilization after replacing a GPU suggests a bottleneck in data transfer or power delivery. A lower PCIe link speed (A) would severely limit the GPU's ability to receive data from the CPU and system memory, resulting in underutilization. Setting the power plan to 'Power Saver' (C) restricts the GPU's power budget, preventing it from reaching its maximum clock speed and memory bandwidth. While OptiX denoiser configuration (B) and scene file issues (D) can impact rendering performance, they are less likely to directly cause low memory bandwidth utilization. VBIOS issues (E) could cause problems, but incorrect or missing VBIOS can cause driver errors or complete system unresponsiveness.

NEW QUESTION # 107

You are experiencing link flapping (frequent up/down transitions) on several InfiniBand links in your AI infrastructure. This is causing intermittent connectivity issues and performance degradation. What are the MOST likely causes of this issue, and what steps should you take to troubleshoot and resolve it? (Select TWO)

- A. Faulty or damaged cables, connectors, or transceivers.
- B. Software bugs in the operating system or InfiniBand drivers.
- C. Incorrect MTU (Maximum Transmission Unit) configuration on the affected interfaces.
- D. Excessive broadcast traffic causing congestion.
- E. Mismatched link speeds or duplex settings between connected devices.

Answer: A,E**Explanation:**

Link flapping is most commonly caused by physical layer issues (faulty cables, connectors, or transceivers) or configuration mismatches (link speeds or duplex settings). Troubleshooting should focus on inspecting the physical connections and verifying that the link speed and duplex settings are correctly configured on both ends of the link. While MTU issues and software bugs can cause network problems, they are less likely to directly cause link flapping. Excessive broadcast traffic can cause performance issues but is less likely to result in frequent link up/down transitions.

NEW QUESTION # 108

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 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.
- B. The system's virtual memory is exhausted. Increase the swap space.

- C. The application is leaking GPU memory. Use a memory profiling tool like 'cuda-memcheck' to identify the source of the leak.
- D. The process has exceeded the maximum number of GPU contexts allowed. Reduce the number of concurrent CUDA applications running on the GPU.
- E. The CUDA driver version is incompatible with the CUDA runtime version used by the application. Update the CUDA driver to match the runtime version.

Answer: A,C

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 # 109

You are managing a Kubernetes cluster with NVIDIA GPUs and want to automatically scale your AI inference deployments based on GPU utilization. Which of the following tools and configurations would you use to implement Horizontal Pod Autoscaling (HPA) based on GPU metrics?

- A. Configuring the HPA based on memory utilization.
- B. Using the NVIDIA Data Center GPU Manager (DCGM) exporter to expose GPU metrics to Prometheus, and configuring the HPA to scale based on these metrics.
- C. Using the standard Kubernetes HPA with CPU utilization as the scaling metric, assuming GPU utilization is correlated with CPU usage.
- D. Using the Kubernetes Resource Metrics API to directly access GPU utilization metrics and configuring the HPA accordingly.
- E. Manually adjusting the number of replicas in the deployment based on observed GPU utilization.

Answer: B

Explanation:

The NVIDIA DCGM exporter provides a way to expose GPU metrics to Prometheus, which can then be used by the Kubernetes HPA to automatically scale deployments based on actual GPU utilization. The standard Kubernetes HPA does not natively support GPU metrics. Other options are either inaccurate or manual.

NEW QUESTION # 110

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