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1 / 9

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NVIDIA AI Infrastructure Sample Questions (Q268-Q273):

NEW QUESTION # 268

You are troubleshooting a performance issue with a GPU-accelerated application running inside a Docker container. The 'nvidia-smi' output inside the container shows the GPU is being utilized, but the performance is significantly lower than expected. Which of the following could be the cause of this performance bottleneck?

- A. The application is performing frequent small memory transfers between the CPU and GPU.
- B. The host machine's CPU is being heavily utilized, causing a bottleneck in data transfer to the GPU.
- C. The version of the CUDA driver on the host is incompatible with the CUDA toolkit version used in the container.
- D. The GPU is overheating, causing thermal throttling.
- E. The Docker container is not configured to use shared memory for data transfer with the GPU.

Answer: A,B,C,D

Explanation:

Several factors could contribute to reduced GPU performance within a Docker container, even if the GPU is being utilized. A heavily loaded CPU (A) can bottleneck data transfer to the GPU. Incompatible CUDA driver versions between host and container (C) cause unexpected errors, and CUDA drivers are important for GPU support. Frequent small memory transfers between CPU and GPU (D) can be inefficient. Overheating (E) can cause the GPU to throttle its performance. While shared memory optimization (B) can help, it's not always the primary cause of the initial performance drop.

NEW QUESTION # 269

Your AI infrastructure includes several NVIDIA A100 GPUs. You notice that the GPU memory bandwidth reported by 'nvidia-smi' is significantly lower than the theoretical maximum for all GPUs. System RAM is plentiful and not being heavily utilized. What are TWO potential bottlenecks that could be causing this performance issue?

- A. Inefficient data loading from storage to GPU memory.
- B. Insufficient CPU cores assigned to the training process.
- C. The CPU is using older DDR4 memory with low bandwidth
- D. The GPUs are connected via PCIe Gen3 instead of PCIe Gen4.
- E. The NVIDIA drivers are not configured to enable peer-to-peer memory access between GPUs.

Answer: A,D

Explanation:

Inefficient data loading (B) can starve the GPUs, preventing them from reaching their full memory bandwidth potential. If the storage system or data pipeline is slow, the GPUs will spend time waiting for data. PCIe Gen3 (C) has lower bandwidth than PCIe Gen4, limiting the data transfer rate to the GPUs. While insufficient CPU cores (A) can be a bottleneck, it's less directly related to GPU memory bandwidth. Driver configuration (E) affects inter-GPU communication, not the memory bandwidth of individual GPUs. CPU's RAM type does not directly impact GPU memory bandwidth (D).

NEW QUESTION # 270

Which command is used to enable MIG mode on an NVIDIA Ampere architecture GPU?

- A. nvidia-smi -i 0 -enable-mig
- B. nvidia-smi -i 0 -mig 1
- C. nvidia-smi -gpu 0 -i MIG=1
- D. nvidia-smi -set-mig-mode=enable -i 0
- E. nvidia-smi -format=csv,noheader=1 -i 0 -enable-mig

Answer: D

Explanation:

The correct command to enable MIG mode is 'nvidia-smi -set-mig-mode=enable -i', where '-i 0' specifies the GPU index. This command instructs the driver to reconfigure the GPU to enable MIG functionality. The other commands either use incorrect syntax or lack the necessary functionality for enabling MIG mode.

NEW QUESTION # 271

You are installing four NVIDIA A100 GPUs into a server designed for AI training. The server motherboard has multiple PCIe Gen4 x16 slots. However, the server's power supply unit (PSU) only has three 8-pin PCIe power connectors available. What is the BEST course of action to ensure all GPUs receive adequate power?

- A. Underclock the GPUs significantly to reduce their power consumption below the available PSU capacity.
- B. Install only three GPUs and leave the fourth unpowered.
- C. Connect the GPUs using the motherboard's internal SATA power connectors.
- D. Use a PCIe power splitter cable on one of the 8-pin connectors to power two GPUs.
- E. **Replace the existing PSU with a higher wattage PSU that has at least four 8-pin PCIe power connectors.**

Answer: E

Explanation:

Using a splitter can overload the original connector and cause instability or damage. Leaving a GPU unpowered defeats the purpose. SATA connectors are not designed for the high power requirements of GPUs. Underclocking might work, but is not a reliable long-term solution. Replacing the PSU is the safest and most reliable solution.

NEW QUESTION # 272

You're deploying BlueField OS to an Arm-based SmartNIC. After flashing the image, the system fails to boot and you observe a kernel panic related to device tree loading. Which of the following is the most likely cause?

- A. The secure boot configuration is incorrectly set up. Disabling secure boot in the BIOS or bootloader might resolve the issue.
- B. The flashed image is not intended for your specific BlueField card revision. Ensure that image corresponds to hardware version.
- C. Insufficient memory allocated to the initrd image. This can lead to failures during initial system setup.
- D. **Incorrect bootloader configuration (e.g., incorrect bootargs). The bootloader might not be pointing to the correct device tree blob (dtb) or root filesystem**
- E. The BlueField OS image is corrupted. A fresh download and re-flash should resolve the problem.

Answer: D

Explanation:

A device tree blob (DTB) describes the hardware to the kernel. If the bootloader doesn't point to the correct DTB or its boot arguments are incorrect, the kernel cannot properly initialize, leading to a panic. The other options could contribute to boot problems but a device tree problem commonly manifests as a kernel panic during initialization.

NEW QUESTION # 273

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