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NVIDIA AI Infrastructure Sample Questions (Q28-Q33):

NEW QUESTION # 28

You are replacing a faulty NVIDIA Tesla V 100 GPU in a server. After physically installing the new GPU, the system fails to recognize it. You've verified the power connections and seating of the card. Which of the following steps should you take next to troubleshoot the issue?

- A. Disable and re-enable the GPU slot in the system BIOS.
- B. Reinstall the operating system to ensure proper driver installation.
- C. **Check if the new GPU requires a different driver version than the currently installed one and update if needed.**
- D. Update the system BIOS and BMC firmware to the latest versions.
- E. Immediately RMA the new GPU as it is likely defective.

Answer: C,D

Explanation:

After verifying the physical installation, the next steps are to ensure the system's firmware is up-to-date and that the correct drivers are installed. Older BIOS/BMIC firmware may not properly recognize newer GPUs, and incorrect drivers will prevent the GPU from functioning correctly. RMAing the new GPU or reinstalling the OS prematurely are inefficient troubleshooting steps. The system BIOS may have an option to disable and enable the GPU slot, but that would be rare.

NEW QUESTION # 29

You are deploying a cloud-native AI inference service using Kubernetes and NVIDIA GPUs. You need to ensure that GPU resources are efficiently allocated and monitored. Which of the following approaches is MOST effective for achieving this within the Kubernetes environment?

- A. Manually assigning specific GPU devices to pods using hostPath volumes and environment variables.
- B. **Using the NVIDIA Device Plugin for Kubernetes to advertise GPU resources and utilizing resource requests and limits to schedule pods on nodes with available GPUs.**
- C. Relying solely on Kubernetes' default CPU and memory resource requests and limits, assuming GPU usage will be implicitly managed.
- D. Overcommitting GPU resources and relying on the Kubernetes scheduler to handle potential out-of-memory (OOM) errors.
- E. Deploying a dedicated monitoring agent on each node to track GPU utilization and manually adjusting pod resource requests based on these metrics.

Answer: B

Explanation:

The NVIDIA Device Plugin for Kubernetes is specifically designed to advertise GPU resources to the Kubernetes scheduler, enabling efficient allocation and utilization. Resource requests and limits ensure pods are scheduled on nodes with sufficient GPU capacity, preventing resource contention and OOM errors. Options A, C, D, and E are either ineffective, manual, or potentially lead to instability.

NEW QUESTION # 30

While running a large AI training job, you observe the following output from 'nvidia-smi':

GPU 0: P2
GPU 1: P2
GPU 2: P2
GPU 3: P2

What does the 'P2' state indicate, and what steps should you take to investigate this further in the context of validating optimal hardware operation?

- A. P2 indicates the GPUs are in a low-power idle state; investigate if the driver is correctly configured and the workload is properly utilizing the GPUs.
- B. P2 indicates a critical error state; immediately halt the training job and check the system logs for hardware failures.
- C. P2 indicates the GPU is running at maximum clock speed. Check for thermal throttling.
- D. P2 indicates the GPUs are in a high-performance state; no further investigation is needed.

Answer: A

Explanation:

P2 typically indicates a power-saving state where the GPU is operating at a reduced clock speed. It's crucial to investigate whether the workload is demanding sufficient resources from the GPUs, and whether power limits or other configuration settings are preventing the GPUs from reaching their maximum performance state. Review 'nvidia-smi -q' output for power usage and clock speeds to verify proper operation. Other power states (P0, P1) represent varying levels of performance.

NEW QUESTION # 31

You are setting up a multi-GPU AI server for deep learning. You want to ensure optimal inter-GPU communication. Which of the following interconnect technologies would provide the BEST performance?

- A. Infiniband

- B. NVLink
- C. Ethernet
- D. PCIe Gen3 x16
- E. PCIe Gen4 x16

Answer: B

Explanation:

NVLink is designed specifically for high-bandwidth, low-latency inter-GPU communication, offering significantly better performance than PCIe or network connections for workloads that benefit from it. InfiniBand is suitable for node to node communication, while NVLink is for GPU to GPU on the same node.

NEW QUESTION # 32

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 GPUs are connected via PCIe Gen3 instead of PCIe Gen4.
- D. The CPU is using older DDR4 memory with low bandwidth
- E. The NVIDIA drivers are not configured to enable peer-to-peer memory access between GPUs.

Answer: A,C

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 GP100 memory bandwidth (D).

NEW QUESTION # 33

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