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NVIDIA AI Infrastructure Sample Questions (Q31-Q36):

NEW QUESTION # 31
You are deploying a multi-node A1 training cluster using Kubernetes, with each node equipped with multiple NVIDIA GPUs. You want to ensure that the Kubernetes scheduler is aware of the GPU resources available on each node and can efficiently allocate GPU-enabled pods to the appropriate nodes. Besides installing the NVIDIA Container Toolkit, what other components are essential for enabling GPU-aware scheduling in Kubernetes?

- A. The NVIDIA Fabric Manager
- B. The NVIDIA Device Plugin for Kubernetes.
- C. The NVIDIA GPU Operator.
- D. The Kubernetes Resource Quota controller.
- E. The Kubernetes Horizontal Pod Autoscaler (HPA).

Answer: B,C

Explanation:
The NVIDIA Device Plugin for Kubernetes (A) is essential for advertising the GPU resources to the Kubernetes scheduler. It allows Kubernetes to understand that GPUs are available and track their usage. The NVIDIA GPU Operator (C) simplifies the deployment and management of NVIDIA drivers and other components required for GPU support in Kubernetes, including the device plugin. The Resource Quota controller (B) is useful for limiting resource consumption but doesn't directly enable GPU-aware scheduling. HPA (D) is used for autoscaling based on CPU or memory utilization, not GPU utilization. Fabric Manager is for managing GPU interconnect and not related.

NEW QUESTION # 32
You are tasked with troubleshooting a performance bottleneck in a multi-node, multi-GPU deep learning training job utilizing Horovod.
The training loss is decreasing, but the overall training time is significantly longer than expected. Which of the following monitoring approaches would provide the most insight into the cause of the bottleneck?

- A. Analyzing the training loss curve to identify potential issues with the model architecture or hyperparameters.
- B. Enabling Horovod's timeline and profiling features to visualize the communication patterns and identify synchronization bottlenecks.
- C. Using Shtop' to monitor CPIJ utilization on each node.
- D. Using 'nvidia-smi' on each node to monitor GPU utilization and memory usage.
- E. Monitoring network bandwidth utilization on each node using 'iftop' or 'iperf3'

Answer: B

Explanation:
Horovod's timeline and profiling tools are specifically designed to visualize communication patterns and identify bottlenecks in distributed training jobs. While 'nvidia-smr and network monitoring can provide useful information, they don't give the holistic view of communication overhead that Horovod's tools provide. Loss curve analysis helps with model-related issues, not distributed training bottlenecks. 'htop' isn't related to network or GPU specific issues in distributed processing.

NEW QUESTION # 33
A critical AI model training job consistently fails on a specific GPU server in your cluster after running for approximately 24 hours. Monitoring data shows a sudden drop in GPU power consumption followed by a system reboot. All other GPUs on the server appear normal. The server has redundant PSUs. What is the MOST likely cause?

- A. Thermal runaway on the GPU due to a failing thermal interface material (TIM) between the GPU die and the heatsink.
- B. A software bug in the A1 model causing a kernel panic specifically triggered after 24 hours of execution.
- C. A driver crash, causing the GPU to reset and the system to reboot.
- D. ECC memory errors accumulating over time, eventually leading to a non-recoverable system fault.
- E. A transient power supply issue affecting only one of the redundant PSUs, triggering a system-wide protection mechanism.

Answer: A

Explanation:

Thermal runaway (B) is the most probable cause. The 24-hour delay suggests a gradual heat buildup. A failing TIM would cause the GPU to overheat until it triggers a thermal shutdown, resulting in the power drop and reboot. While a PSU issue (C) is possible, redundant PSUs should prevent a complete failure unless one PSU is completely dead and the second PSU is overloaded by the entire load for a short period. The other options are less likely to cause this specific failure pattern.

NEW QUESTION # 34

You are tasked with replacing a redundant power supply unit (PSU) in a GPU server. The server has two 2000W PSUs. One PSU has failed, but the server is still running. Which of the following actions is the safest and most efficient way to replace the faulty PSU?

- A. Immediately power down the server and replace the faulty PSIJ.
- B. Hot-swap the faulty PSU with a new one while the server is running.
- C. Wait for a scheduled maintenance window to power down the server and replace the PSU.
- D. Document the failure and wait until the remaining PSU fails before taking action.
- E. Replace the faulty PSU, then reboot the server to ensure the new PSU is working.

Answer: B

Explanation:

Hot-swapping is the designed method for replacing redundant PSUs in many server systems. This allows the server to remain operational while the faulty PSU is replaced, minimizing downtime. Powering down the server immediately is unnecessary and causes downtime. Waiting for a maintenance window or until the remaining PSU fails increases the risk of a complete server outage.

NEW QUESTION # 35

A server with 8 NVIDIAAIOO GPUs is experiencing an unexpected shutdown under heavy load. The IPMI logs show a 'Power Supply Deasserted' event immediately preceding the shutdown. After replacing the PSU, the issue persists. What is the MOST likely cause of the continued shutdowns?

- A. Incompatible GPU driver version.
- B. Overcurrent protection (OCP) tripping due to excessive inrush current during GPU startup.
- C. Insufficient system memory (RAM).
- D. A faulty CMOS battery.
- E. Network congestion causing system instability.

Answer: B

Explanation:

The 'Power Supply Deasserted' event, even after replacing the PSIJ, strongly suggests that overcurrent protection (OCP) is being triggered. OCP is a safety mechanism that shuts down the PSU if it detects excessive current draw. This is particularly likely with multiple high- power GPUs, as the inrush current during startup can momentarily exceed the PSU's capacity. A driver issue or insufficient memory is less likely to cause this specific event.

NEW QUESTION # 36

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