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NVIDIA AI Infrastructure Sample Questions (Q134-Q139):

NEW QUESTION # 134
You are monitoring a server with 8 GPUs used for deep learning training. You observe that one of the GPUs reports a significantly

lower utilization rate compared to the others, even though the workload is designed to distribute evenly. 'nvidia-smi' reports a persistent "XID 13" error for that GPU. What is the most likely cause?

- A. The GPU's compute mode is set to 'Exclusive Process'.
- B. Insufficient system memory preventing data transfer to that GPU.
- C. A driver bug causing incorrect workload distribution.
- D. An incorrect CUDA version installed.
- E. A hardware fault within the GPU, such as a memory error or core failure.

Answer: E

Explanation:
XID 13 errors in 'nvidia-smi' typically indicate a hardware fault within the GPU. Driver bugs or memory issues would likely cause different error codes or system instability across multiple GPUs. CUDA version mismatch might prevent the application from running altogether, but is less likely to lead to a specific XID error on a single GPU. Exclusive Process mode will lead to it being used by a different process but not necessarily cause that XID error.

NEW QUESTION # 135
You are designing a storage solution for a multi-tenant AI cluster. Different teams will be running training jobs concurrently. Which of the following considerations are MOST important for ensuring fair resource allocation and preventing performance bottlenecks?

- A. Prioritizing I/O requests from users with higher privileges
- B. Using a single large storage volume shared by all tenants
- C. Implementing storage quotas and quality-of-service (QOS) policies
- D. Isolating tenants using separate storage namespaces or volumes
- E. Using only SSDs for all storage tiers.

Answer: C,D

Explanation:
Storage quotas prevent individual tenants from consuming excessive storage resources, while QOS policies ensure that each tenant receives a fair share of I/O bandwidth. Isolating tenants using separate storage namespaces or volumes prevents noisy neighbor effects, where one tenant's I/O -intensive workload impacts the performance of other tenants. A single large volume doesn't provide isolation. Prioritizing I/O based on privileges is generally not a fair approach in a multi-tenant environment.

NEW QUESTION # 136
Consider a scenario where you are setting up a high-performance computing cluster with several GPU-accelerated nodes using Slurm as the resource manager. You want to ensure that jobs requesting GPUs are only scheduled on nodes with the appropriate NVIDIA drivers and CUDA toolkit installed. How can you achieve this within Slurm?

- A. Utilize Slurm's Prolog and Epilog scripts to dynamically install the necessary NVIDIA drivers and CUDA toolkit on each node before and after a job runs. This ensures that the required software is always available.
- B. Install the NVIDIA Data Center GPU Manager (DCGM) on each node and configure Slurm to query DCGM for GPU availability and health. Slurm will then only schedule jobs on healthy and available GPUs.
- C. Use Slurm's 'GresTypeS configuration option in 'slurm.conf to define a generic resource type called 'gpu' and then configure each node to advertise the available GPIJs. Slurm will automatically ensure that jobs requesting GPUs are only scheduled on nodes with the 'gpu' resource.
- D. Use Slurm's node features to tag nodes with the "Feature=' keyword in 'slurm.conf. For example, tag nodes with GPUs as 'Feature=gpu' . Jobs can then request nodes with the 'gpu' feature using the option.
- E. Create a custom Slurm script that checks for the presence of the NVIDIA driver and CUDA toolkit before submitting a job to a node. If the requirements are not met, the job is rejected.

Answer: D

Explanation:
Using Slurm's node features is the most straightforward and recommended approach for tagging nodes with specific capabilities. The '-constraint' option allows jobs to request nodes with particular features. GresTypeS can be used, but node features provide more flexibility and control. Installing drivers dynamically is impractical and inefficient. DCGM is primarily for monitoring, not core scheduling requirements.

NEW QUESTION # 137
What is the role of GPUDirect RDMA in an NVLink Switch-based system, and how does it improve performance?

- A. It provides a mechanism for GPUs to offload compute-intensive tasks to the CPU, improving overall system throughput.
- B. It facilitates the virtualization of GPUs, allowing multiple virtual machines to share a single physical GPIJ.
- C. It encrypts data transmitted between GPUs, enhancing security.
- D. It enables direct communication between GPUs and storage devices, bypassing the network interface.
- E. It allows GPUs to directly access each other's memory without involving the CPIJ, reducing latency and CPU overhead.

Answer: E

Explanation:
GPUDirect RDMA enables direct memory access between GPUs, bypassing the CPU and reducing latency. This significantly improves performance for applications that require frequent data transfers between GPUs. Other options describe functionalities that are not associated with RDMA in this context.

NEW QUESTION # 138
You are designing a network for a distributed training job utilizing multiple GPUs across multiple nodes. Which network characteristic is MOST critical for minimizing training time?

- A. Low cost
- B. High packet loss rate
- C. High bandwidth
- D. Low latency
- E. Large MTU

Answer: C,D,E

Explanation:
Distributed training involves frequent data exchange between GPUs. High bandwidth is necessary to move large datasets quickly. Low latency reduces the round-trip time for communication. Large MTIJ (Maximum Transmission Unit) can reduce overhead by transmitting larger packets. High packet loss is detrimental to performance. Low cost should not be prioritized over performance in a distributed training environment.

NEW QUESTION # 139
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