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NVIDIA AI Infrastructure Sample Questions (Q101-Q106):

NEW QUESTION # 101

You are designing an AI server infrastructure using NVIDIA HGX A100 modules. The server's power supply units (PSUs) are configured in a redundant (N+1) setup. The individual PSUs are rated for 3000W each, and the server contains three PSUs. If the expected peak power consumption of the HGX A100 modules and other components is 5500W, what is the safety margin (in Watts) in the power budget?

- A. 500W
- B. 9000W
- C. 0W
- D. 3500W
- E. 5000W

Answer: A

Explanation:

With N+1 redundancy and three 3000W PSUs, the total available power is $2 \times 3000W = 6000W$ (N+1 means the system can tolerate one PSU failure). The safety margin is $6000W - 5500W = 500W$.

NEW QUESTION # 102

Which of the following are key considerations when choosing between CPU pinning and NUMA (Non-Uniform Memory Access) awareness for a distributed training job on a multi-socket AMD EPYC server with multiple GPUs?

- A. Both CPU pinning and NUMA awareness are critical for optimizing performance. They should be used in conjunction to achieve optimal performance.
- B. CPU pinning is generally more important than NUMA awareness because it directly impacts CPU utilization.
- C. Neither CPU pinning nor NUMA awareness are relevant for GPU-accelerated workloads, as the GPUs handle all the computation.
- D. NUMA awareness is generally more important than CPU pinning because it directly impacts memory bandwidth.
- E. CPU pinning ensures that each process/thread runs on a specific CPU core, reducing context switching overhead. NUMA awareness ensures that the CPU cores and memory used by a process are located within the same NUMA node, minimizing memory access latency.

Answer: A,E

Explanation:

CPU pinning and NUMA awareness are both important for optimizing performance on multi-socket systems. CPU pinning reduces context switching overhead, while NUMA awareness reduces memory access latency. Using them together provides the best performance. They ensure the CPU and memory being used are on the same node, which reduces latency. While GPUs handle intense computation, CPUs prepare and feed data to the GPUs, and are critical for performance.

NEW QUESTION # 103

After upgrading the network card drivers on your AI inference server, you experience intermittent network connectivity issues, including packet loss and high latency. You've verified that the physical connections are secure. Which of the following steps would be most effective in troubleshooting this issue?

- A. Roll back the network card drivers to the previous version.
- B. Update the server's BIOS.
- C. Run network diagnostic tools like 'ping', 'tracert', and 'iperf3' to assess the network performance.
- D. Check the system logs for error messages related to the network card or driver.
- E. Reinstall the operating system.

Answer: A,C,D

Explanation:

Rolling back drivers is a quick way to revert to a known working state. Checking system logs will provide valuable information about driver errors or network issues. Network diagnostic tools will quantify the network performance and help isolate the problem. Reinstalling the OS is drastic and should be a last resort. Updating the BIOS is unlikely to resolve driver-related network issues unless specifically recommended for the network card.

NEW QUESTION # 104

Which of the following is the MOST critical consideration when planning the cooling strategy for a server rack containing multiple NVIDIA A100 GPUs?

- A. Increasing the fan speed of the server chassis fans to maximum.
- B. Applying thermal paste to the GPU memory chips.
- C. Optimizing airflow to ensure hot air is efficiently exhausted from the rack and cool air is drawn in.
- D. Using liquid cooling for the CPUs, but air cooling for the GPUs.
- E. Ensuring the server room temperature is kept below 25 degrees Celsius.

Answer: C

Explanation:

While ambient temperature is important, optimized airflow is crucial for removing the heat generated by the GPUs. Focusing solely on CPU cooling neglects the GPU heat. Applying thermal paste to memory chips is generally unnecessary unless specifically recommended by the manufacturer. Maximizing fan speed can help, but efficient airflow design is more effective.

NEW QUESTION # 105

Consider a distributed training job running across multiple nodes, each with local NVMe storage. You want to minimize network traffic and maximize I/O performance. Which data loading strategy would be MOST effective?

- A. Using rsync to copy data between nodes before each epoch
- B. Using object storage (e.g., S3) as the primary data source and loading data on demand
- C. Loading the entire dataset into the memory of a single node and then distributing it to the other nodes
- **D. Distributing the dataset across the local NVMe drives of each node and using a distributed data loader**
- E. Centralized data loading from a single NFS server

Answer: D

Explanation:

Distributing the dataset across the local NVMe drives and using a distributed data loader allows each node to read data directly from its local storage, minimizing network traffic and maximizing I/O performance. Centralized data loading from NFS will create a bottleneck. Loading into a single node's memory is impractical for large datasets. Object storage can introduce latency. Rsync is inefficient for repeated data loading.

NEW QUESTION # 106

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