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NVIDIA AI Operations Sample Questions (Q61-Q66):

NEW QUESTION # 61
You suspect that 'nvsm' is not properly utilizing all available resources on your system. What metrics can you monitor to assess the resource consumption of 'nvsm' and identify potential bottlenecks?

- A. GPU utilization and memory usage.
- B. Disk I/O and filesystem latency.
- C. Power consumption of the NVSwitch.
- D. CPU usage, memory usage, and network 1/0.
- E. System uptime and kernel version.

Answer: D

Explanation:
To assess the resource utilization of 'nvsm', you should monitor its CPU usage, memory usage, and network I/O. These metrics will provide insights into potential bottlenecks and areas where the service might be constrained.

NEW QUESTION # 62
You are troubleshooting slow training times for a deep learning model. You suspect the storage is the bottleneck. You are using a network file system (NFS) to serve the dat a. Which of the following NFS mount options would most likely improve performance for read- heavy workloads?

- A. Increasing the 'rsize' and 'wsize' to the maximum supported values by the NFS server and client.
- B. Using the 'async' mount option.
- C. Using the 'sync' mount option.
- D. Mounting the NFS share with the 'nolock' option.
- E. Reducing the 'rsize' (read size) and 'wsize' (write size) to the smallest possible value.

Answer: A,B

Explanation:
The 'async' mount option allows the client to write data to its cache and acknowledge the write before the data is actually written to the server, improving write performance. Increasing 'rsize' and 'wsize' allows for larger reads and writes, potentially improving throughput for large files commonly used in AI/ML datasets. However, exceeding the server's supported values will not help and may hurt performance.

NEW QUESTION # 63
Consider the following data center scenario: You need to deploy a large-scale distributed training job using PyTorch across 16 GPU servers. Each server has 8 NVIDIA A100 GPUs. The training dataset is 1 TB and stored on a network file system (NFS). You observe significant performance bottlenecks during data loading. What are the MOST effective strategies to mitigate this bottleneck? (Select TWO)

- A. Move the entire dataset to local SSDs on each GPU server.
- B. Increase the number of NFS servers and stripe the data across them.
- C. Reduce the batch size used for training.
- D. Implement data parallelism using larger mini-batches.
- E. Use a faster network protocol (e.g., NVMe-oF) for accessing the NFS storage.

Answer: A,B

Explanation:
The bottleneck is data loading. Increasing the number of NFS servers and striping the data improves the overall read throughput from the network storage. Moving the data to local SSDs eliminates the network bottleneck entirely. Reducing the batch size or using data parallelism only addresses the compute aspect of the training, not the data loading bottleneck. While a faster network protocol helps, moving data local is even more effective. The NFS server configuration is key to improvement.

NEW QUESTION # 64

When deploying a DOCA application using the command, which of the following parameters are mandatory for specifying the DOCA core application's entry point?

- A. '-pci-address Defines the PCl address of the BlueField DPLJ where the application will run.
- B. -num-cores Specifies the number of CPU cores to be allocated to the DOCA application.
- C. '-log-level ' : Sets the verbosity level for logging messages from the DOCA application.
- D. '-class The DOCAApplication class in the DOCA executable
- E. -entry-point Specifies the name of the function within the DOCA application that should be executed as the entry point.

Answer: D,E

Explanation:
The zentry-point' parameter is required to specify the function that will be the entry point of the DOCA core application. '--class' parameter is mandatory.

NEW QUESTION # 65

A BCM pipeline exhibits inconsistent performance: sometimes it runs fast, sometimes it runs slow. You've ruled out network and storage bottlenecks. What could be the cause of this variability?

- A. Dynamic power management of the GPU affecting performance.
- B. CPU frequency scaling impacting data preprocessing.
- C. Interference from other GPU-intensive processes running on the same system.
- D. Thermal throttling of the GPU due to excessive heat.
- E. All of the above.

Answer: E

Explanation:
Thermal throttling, process interference, CPU frequency scaling, and GPU power management can all lead to inconsistent performance.

NEW QUESTION # 66
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