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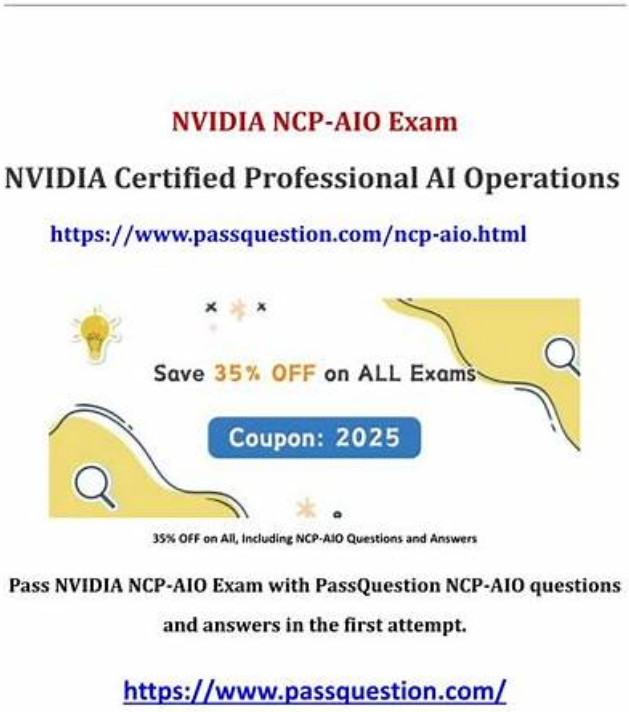

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NVIDIA AI Operations Sample Questions (Q37-Q42):

NEW QUESTION # 37
An administrator is troubleshooting a bottleneck in a deep learning run time and needs consistent data feed rates to GPUs.
Which storage metric should be used?

- A. Disk I/O operations per second (IOPS)
- B. Disk free space
- C. Sequential read speed
- D. Disk utilization in performance manager

Answer: C

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
When troubleshooting performance bottlenecks related to feeding data consistently to GPUs during deep learning workloads, the key storage metric to consider is sequential read speed. Deep learning training typically involves streaming large datasets sequentially from storage to GPUs. The sequential read speed measures how fast data can be read in a continuous stream, directly impacting the ability to keep GPUs fed without stalls.
* Disk I/O operations per second (IOPS) measures random read/write operations and is less relevant for large sequential data streams in AI workloads.
* Disk free space indicates available storage capacity but does not impact data feed rate.
* Disk utilization in performance manager shows overall usage but does not specify the speed or consistency of data feed.
Therefore, focusing on sequential read speed (option C) is critical for ensuring consistent, high- throughput data feeding to GPUs, minimizing bottlenecks in deep learning runtime environments.
This is consistent with NVIDIA AI Operations best practices for system performance optimization and troubleshooting storage-related issues in AI infrastructure.

NEW QUESTION # 38
You are tasked with implementing data versioning and reproducibility for AI experiments. Which storage features or technologies are most relevant?

- A. Integration with version control systems like Git for data.
- B. Data compression algorithms for minimizing storage footprint.
- C. Replication for disaster recovery
- D. Encryption for security
- E. Snapshots and cloning capabilities of the storage system.

Answer: A,E

Explanation:
Snapshots and cloning allow you to create consistent copies of data at specific points in time, facilitating reproducibility. Integrating with version control systems enables tracking changes to data and code together, ensuring experiments can be recreated accurately. While compression, replication, and encryption are important, they are not directly related to versioning and reproducibility.

NEW QUESTION # 39
You are deploying a containerized application from NGC that relies on the NVIDIA Data Loading Library (DALI) for efficient data preprocessing. You want to ensure that DALI can access the GPU within the container. What steps are necessary to configure DALI correctly?

- A. Configure DALI to use the CPU for data preprocessing instead of the GPU.
- B. Ensure that the NVIDIA Container Toolkit is installed and configured on the host system.
- C. Install the NVIDIA drivers directly within the container image.
- D. Use DALI's function to specify the GPU device ID within the DALI pipeline.

- E. Set the environment variable to specify the GPU to be used by DALI.

Answer: B,D,E

Explanation:
The NVIDIA Container Toolkit enables GPU access. 'CUDA_VISIBLE DEVICES' controls GPU visibility. specifies the GPU device within the DALI pipeline. A is incorrect; drivers are provided by the host. D defeats the purpose of using DALI for GPU-accelerated data preprocessing.

NEW QUESTION # 40
You have a cluster dedicated to AI inference, serving models from a persistent volume. You're experiencing high latency and CPU usage on the nodes serving inference requests. You suspect that storage access patterns are contributing to the issue. Your persistent volume is backed by a distributed file system. Describe a strategy, including relevant tools and techniques, to analyze the storage I/O profile of your inference workloads and identify potential optimizations.

- A. Randomly restart the inference pods. If the issue goes away, it means the storage system was temporarily overloaded.
- B. Implement storage QOS (Quality of Service) policies to prioritize inference workloads and limit the impact of other I/O-intensive processes.
- C. Use 'iotop' or 'iostat' on the compute nodes to monitor real-time I/O activity and identify processes with high disk I/O. Then check the related containers that are doing more of these reads/writes.
- D. Utilize the distributed file system's monitoring tools (if available) to analyze I/O patterns at the file system level. This can reveal hotspots or inefficient data access patterns.
- E. Capture network traffic using 'tcpdump' or Wireshark to analyze the communication patterns between the compute nodes and the storage system. Look for excessive network latency or congestion. Also monitor the network latency using tools like 'ping' or 'iperf.

Answer: B,C,D,E

Explanation:
'iotopTiostat' identifies I/O-heavy processes. 'tcpdump'/Wireshark/ping/iperf helps analyze network communication. File system monitoring tools reveal data access patterns. Implementing storage QOS prioritizes inference workloads. Only restart the inference pods if you have a strong reason, otherwise troubleshooting the storage using one of the other methods is best practice.

NEW QUESTION # 41
You are using Fleet Command to manage AI model deployments to a diverse fleet of edge devices with varying hardware capabilities.
Some devices are equipped with GPUs, while others rely on CPUs for inference. How can you ensure that the correct version of the AI model is deployed to each device type?

- A. Manually select the appropriate model version for each device during deployment.
- B. Deploy the same model version to all devices and rely on the devices to automatically adapt to their hardware.
- C. Create separate Fleet Command organizations for each device type.
- D. Develop a custom script to determine device capabilities and deploy models accordingly.
- E. Use Fleet Command's device targeting feature with appropriate labels to define deployment rules based on hardware capabilities.

Answer: E

Explanation:
Device targeting with labels is the most efficient and scalable way to manage deployments to diverse hardware. Separate organizations (A) are overly complex. Manual selection (C) is error-prone. Relying on automatic adaptation (D) might not be reliable. Custom scripts (E) add unnecessary complexity when Fleet Command provides built-in features.

NEW QUESTION # 42
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