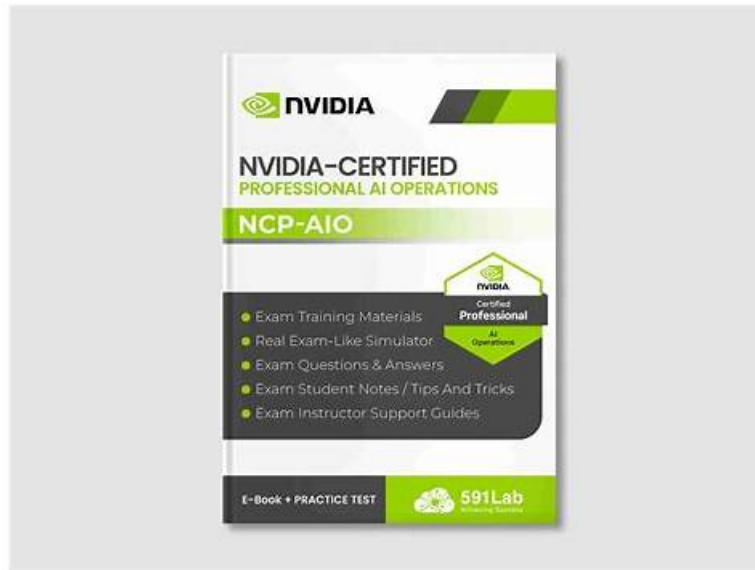


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NVIDIA AI Operations Sample Questions (Q67-Q72):

NEW QUESTION # 67

You are deploying a Deep Learning model as a service using Triton Inference Server within a VMI container on Google Cloud Platform (GCP). You want to leverage TensorRT for optimized inference performance. Which of the following steps are necessary to ensure TensorRT is properly configured and used?

- A. No special configuration is needed; Triton automatically detects and uses TensorRT if available.
- B. Convert the model to a TensorRT engine using 'trtexc' command before loading it into Triton.
- C. Ensure the Triton Inference Server container image includes the necessary TensorRT libraries and dependencies.
- D. Specify the 'optimization' parameter as 'TRT' in the model configuration file (Cconfig.pbtxt) for Triton.
- E. Configure the GCP instance with an NVIDIA GPU that supports TensorRT.

Answer: B,C,D,E

Explanation:

To leverage TensorRT with Triton, you need to ensure the container has the libraries, convert the model to a TensorRT engine, specify the optimization parameter in the model configuration, and use a GPU that supports TensorRT. Each of these steps is crucial for proper TensorRT utilization.

NEW QUESTION # 68

You are troubleshooting a performance issue with a GPU-accelerated application running on Kubernetes managed by BCM. You suspect the application is not effectively utilizing the available GPU resources. Which of the following is the MOST effective way to gather detailed performance metrics and identify potential bottlenecks within the container?

- A. Using 'kubectl exec' to run 'top' within the container and monitor process-level resource consumption.
- **B. Leveraging NVIDIA Nsight Systems or NVIDIA Nsight Compute to profile the application's GPU kernel execution and identify performance bottlenecks.**
- C. Analyzing the application's logs for error messages or performance warnings.
- D. Using 'kubectl top pods' to monitor the pod's CPU and memory utilization.
- E. Using 'nvidia-smi' within the container to monitor GPU utilization, memory usage, and temperature.

Answer: B

Explanation:

NVIDIA Nsight Systems and NVIDIA Nsight Compute are specialized profiling tools designed to analyze the performance of GPU-accelerated applications. They provide detailed insights into kernel execution, memory access patterns, and other performance-critical aspects. 'nvidia-smi' provides basic GPU stats but not application-specific profiling. CPU/memory utilization (A, D) and application logs (B) are helpful but don't provide the necessary GPU-specific information. You may have to install it into the container's image.

NEW QUESTION # 69

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

Answer: A

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 # 70

An AI data center is dealing with exponentially growing unstructured data. Which of the following storage architectures is the most cost-effective and scalable solution for long-term data archival and retrieval?

- **A. A scale-out object storage system (e.g., Ceph, MinIO) with support for erasure coding.**
- B. A traditional SAN (Storage Area Network) with spinning disks.
- C. A high-performance parallel file system with NVMe SSDs.
- D. A distributed database system with built-in replication.
- E. JBODs (Just a Bunch Of Disks) directly attached to each compute server.

Answer: A

Explanation:

Scale-out object storage systems are designed for massive scalability and cost-effectiveness. They often support erasure coding, which provides data redundancy with lower overhead than traditional RAID. SANs are expensive and less scalable. Parallel file systems are optimized for performance, not cost. Distributed databases are not designed for unstructured data. JBODs present management challenges and lack inherent redundancy.

NEW QUESTION # 71

A system administrator is looking to set up virtual machines in an HGX environment with NVIDIA Fabric Manager. What three (3) tasks will Fabric Manager accomplish? (Choose three.)

- A. Installs vGPU driver as part of the Fabric Manager Package.
- B. Installs GPU operator
- C. Coordinates with the NVSwitch driver to train NVSwitch to NVSwitch NVLink interconnects.
- D. Coordinates with the GPU driver to initialize and train NVSwitch to GPU NVLink interconnects.
- E. Configures routing among NVSwitch ports.

Answer: C,D,E

Explanation:

NVIDIA Fabric Manager is responsible for managing the fabric interconnect in HGX systems, including:

Configuring routing among NVSwitch ports (A) to optimize communication paths.

Coordinating with the NVSwitch driver to train NVSwitch-to-NVSwitch NVLink interconnects (C) for high-speed link setup.

Coordinating with the GPU driver to initialize and train NVSwitch-to-GPU NVLink interconnects (D) ensuring optimal connectivity between GPUs and switches.

NEW QUESTION # 72

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