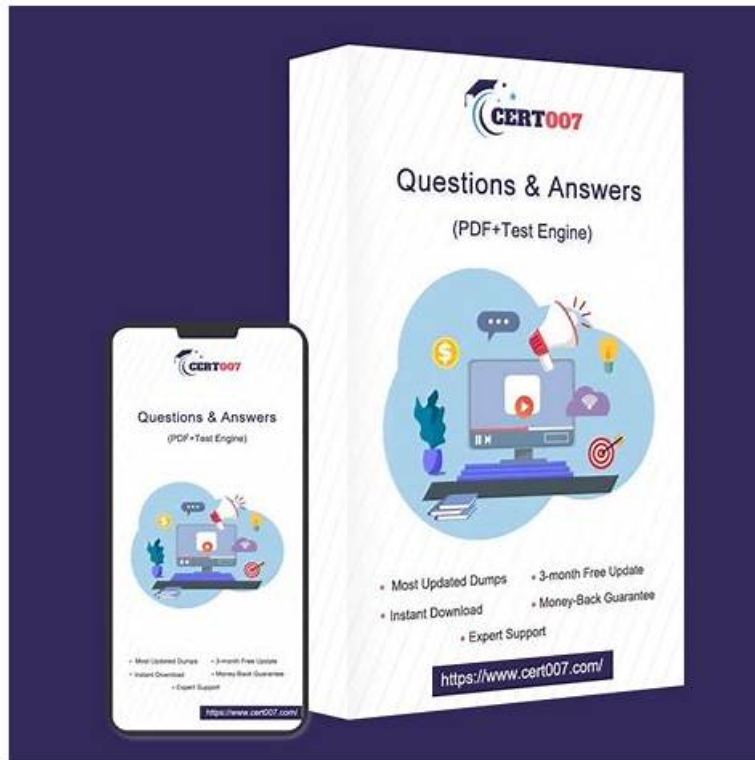


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NVIDIA AI Operations Sample Questions (Q21-Q26):

NEW QUESTION # 21

You are managing a Kubernetes cluster running GPU-accelerated AI workloads. You need to ensure that sensitive data, such as API keys and database credentials, used by these workloads is securely managed and accessible only to authorized pods. What are the best practices and Kubernetes features for achieving this?

- A. Store the sensitive data in a centralized configuration management system (e.g., HashiCorp Vault) and use a sidecar container to retrieve the data and inject it into the pods.
- B. Store the sensitive data directly in the container image.
- C. Encrypt the sensitive data using a symmetric key and store the encrypted data in a ConfigMap.
- D. Use Kubernetes Secrets to store the sensitive data and mount them as files or environment variables in the pods.
- E. Store the sensitive data in environment variables within the pod definition.

Answer: A,D

Explanation:

The correct answers are C and D. Kubernetes Secrets are designed for storing sensitive data and provide mechanisms for controlling access and managing encryption at rest. Using a centralized configuration management system like HashiCorp Vault is also a secure approach, as it provides features like audit logging, access control, and secret rotation. Option A is highly discouraged as secrets should never be baked into images. Option B is also insecure, as environment variables can be easily exposed. Option E provides some obfuscation, but is not as secure as using a proper secret management solution.

NEW QUESTION # 22

You are an administrator managing a large-scale Kubernetes-based GPU cluster using Run:AI.

To automate repetitive administrative tasks and efficiently manage resources across multiple nodes, which of the following is essential when using the Run:AI Administrator CLI for environments where automation or scripting is required?

- A. Use the CLI to manually allocate specific GPUs to individual jobs for better resource management.
- B. Ensure that the Kubernetes configuration file is set up with cluster administrative rights before using the CLI.
- C. Install the CLI on Windows machines to take advantage of its scripting capabilities.
- D. Use the runai-adm command to directly update Kubernetes nodes without requiring kubectl.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

When automating tasks with the Run:AI Administrator CLI, it is essential to ensure that the Kubernetes configuration file (kubeconfig) is correctly set up with cluster administrative rights. This enables the CLI to interact programmatically with the Kubernetes API for managing nodes, resources, and workloads efficiently.

Without proper administrative permissions in the kubeconfig, automated operations will fail due to insufficient rights.

Manual GPU allocation is typically handled by scheduling policies rather than CLI manual assignments. The CLI does not replace kubectl commands entirely, and installation on Windows is not a critical requirement.

The Run:AI Administrator CLI requires a Kubernetes configuration file with cluster-administrative rights in order to perform automation or scripting tasks across the cluster. Without those rights, the CLI cannot manage nodes or resources programmatically.

NEW QUESTION # 23

You are troubleshooting a distributed deep learning training job that utilizes GPUDirect Storage for data loading and CUDA-Aware MPI with GPUDirect RDMA for inter-GPU communication. The training process is significantly slower than expected, and you suspect a bottleneck in the data pipeline. You've used 'nvprof' and determined that the data loading phase is taking an unusually long time. Which of the following steps would be the MOST effective next step in diagnosing the issue? SELECT TWO.

- A. Profile the network bandwidth
- B. Monitor the CPU utilization during the data loading phase.
- C. Examine the NCCL logs for communication errors.
- D. Verify that the storage devices being used support GPUDirect Storage.
- E. Check the PCIe bandwidth utilization between the storage devices and the GPUs.

Answer: D,E

Explanation:

Explanation: Given that 'nvprof' indicates a slow data loading phase, the most effective next steps are to: 1. Verify that the storage devices support GPUDirect Storage: If the storage devices do not properly support GPUDirect Storage, the data will likely be transferred through the CPU, negating the performance benefits. 2. Check the PCIe bandwidth utilization: Even if the storage devices support GPUDirect Storage, the PCIe link between the storage devices and the GPUs may be saturated, limiting the data transfer rate. High CPU utilization (A) might indicate that GPUDirect Storage is not working correctly, but verifying storage support is more

direct. NCCL logs (D) are more relevant for inter-GPU communication issues. Network bandwidth (E) impacts inter-GPU communication, but the problem is data loading.

NEW QUESTION # 24

A GPU administrator needs to virtualize AI/ML training in an HGX environment. How can the NVIDIA Fabric Manager be used to meet this demand?

- A. Manage NVLink and NVSwitch resources
- B. Video encoding acceleration
- C. Enhance graphical rendering
- D. GPU memory upgrade

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

NVIDIA Fabric Manager manages the NVLink and NVSwitch fabric resources within HGX systems, enabling efficient resource allocation, communication, and virtualization necessary for AI/ML workloads.

This is critical for virtualization as it ensures optimized interconnect performance between GPUs. Video encoding, graphical rendering, or memory upgrades are outside the scope of Fabric Manager.

NEW QUESTION # 25

You are deploying an AI workload on a Kubernetes cluster that requires access to GPUs for training deep learning models. However, the pods are not able to detect the GPUs on the nodes. What would be the first step to troubleshoot this issue?

- A. Increase the number of CPU cores allocated to each pod to ensure better resource utilization.
- B. Verify that the NVIDIA GPU Operator is installed and running on the cluster.
- C. Ensure that all pods are using the latest version of TensorFlow or PyTorch.
- D. Check if the nodes have sufficient memory allocated for AI workloads.

Answer: B

Explanation:

The first step in troubleshooting Kubernetes pods that cannot detect GPUs is to verify whether the NVIDIA GPU Operator is properly installed and running. The GPU Operator manages the installation and configuration of all NVIDIA GPU components in the cluster, including drivers, device plugins, and monitoring tools. Without it, pods will not have access to GPU resources.

Ensuring correct installation and operational status of the GPU Operator is essential before checking application-level versions or resource allocations.

NEW QUESTION # 26

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