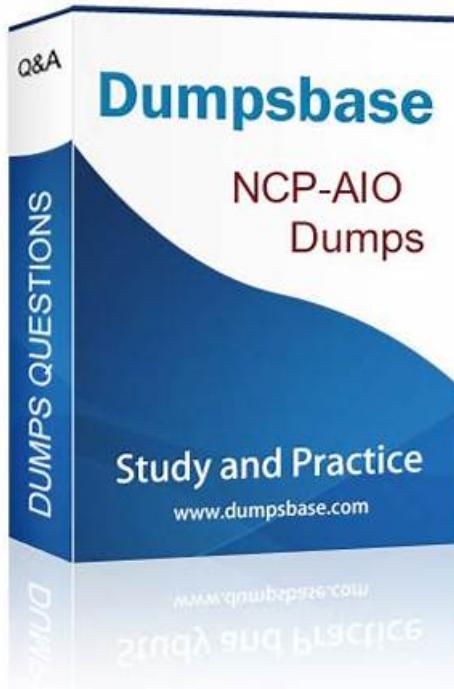


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NVIDIA AI Operations Sample Questions (Q24-Q29):

NEW QUESTION # 24

A system administrator notices that jobs are failing intermittently on Base Command Manager due to incorrect GPU configurations in Slurm. The administrator needs to ensure that jobs utilize GPUs correctly. How should they troubleshoot this issue?

- A. Ensure that GPU resource limits have been correctly defined in Slurm's configuration file for each job type.
- B. Verify that non-MIG GPUs are automatically configured in Slurm when detected, and adjust configurations if needed.
- C. **Check if MIG (Multi-Instance GPU) mode has been enabled incorrectly and reconfigure Slurm accordingly.**
- D. Increase the number of GPUs requested in the job script to avoid using unconfigured GPUs.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Misconfiguration related to MIG mode can cause Slurm to improperly allocate GPUs, leading to job failures.

The administrator should verify whether MIG has been enabled on the GPUs and ensure that Slurm's configuration matches the hardware setup. If MIG is enabled, Slurm must be configured to recognize and schedule MIG partitions correctly to avoid resource conflicts.

NEW QUESTION # 25

What is the primary purpose of assigning a provisioning role to a node in NVIDIA Base Command Manager (BCM)?

- A. **To allow the node to manage software images and provision other nodes**
- B. To enable the node to monitor GPU utilization across the cluster
- C. To assign the node as a storage manager for certified storage
- D. To configure the node as a container orchestration manager

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In NVIDIA Base Command Manager (BCM), assigning the provisioning role to a node enables that node to manage software images and perform provisioning tasks for other nodes in the cluster. This role allows automated deployment and configuration of cluster nodes, ensuring consistency and simplifying large-scale management. It is not primarily responsible for container orchestration, GPU monitoring, or storage management.

NEW QUESTION # 26

You are setting up a Kubernetes cluster on NVIDIA DGX systems using BCM, and you need to initialize the control-plane nodes. What is the most important step to take before initializing these nodes?

- A. Set up a load balancer before initializing any control-plane node.
- B. Ensure that Docker is installed and running on all control-plane nodes.
- C. **Disable swap on all control-plane nodes before initializing them**
- D. Configure each control-plane node with its own external IP address.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Disabling swap on all control-plane nodes is a critical prerequisite before initializing Kubernetes control-plane nodes. Kubernetes requires swap to be disabled to maintain performance and stability. Failure to disable swap can cause kubeadm initialization to fail or lead to unpredictable cluster behavior.

NEW QUESTION # 27

You have deployed a VMI container with Triton Inference Server on a cloud provider that supports MIG (Multi-Instance GPU). You have a single A100 GPU and you want to partition it into two MIG instances to serve two different models concurrently, each requiring half of the GPU's resources. What steps are necessary to achieve this?

- A. Configure the cloud provider's instance settings to automatically partition the GPU into MIG instances.

- B. Bake different drivers in Triton Container to target different MIG instances
- C. Partition the AIO GPU into two MIG instances using the 'nvidia-smi' command-line tool, then configure Triton to use each MIG instance separately by specifying the corresponding UUIDs in the model configuration files.
- D. No special configuration is needed; Triton automatically detects and utilizes MIG instances.
- E. MIG is not a supported feature in Triton

Answer: C

Explanation:

To utilize MIG with Triton, you need to first partition the GPU into MIG instances using 'nvidia-smi', and then configure Triton to use each MIG instance separately. This involves specifying the correct UUIDs for each MIG instance in the model configuration files, allowing Triton to isolate and utilize each partition effectively.

NEW QUESTION # 28

You are deploying a stateful application to your Kubernetes cluster running on NVIDIA hardware provisioned through BCM. This application requires direct access to a persistent volume on a high-performance NVMe drive. Which of the following methods is MOST appropriate for providing this access while ensuring high performance and data consistency?

- A. Using a 'hostPath' volume, directly mapping the NVMe drive's path on the host node to the container.
- B. Creating a PersistentVolumeClaim (PVC) backed by a cloud-based block storage service (e.g., AWS EBS, Azure Disk).
- C. Using a Network File System (NFS) share mounted on the host and exposed to the container via a PersistentVolume.
- D. Leveraging a local Persistent Volume with 'volumeBindingMode: WaitForFirstConsumer' and node affinity to ensure the pod is scheduled on the node with the NVMe drive.
- E. Configuring a standard Persistent Volume Claim backed by a software-defined storage solution like Ceph or Rook.

Answer: D

Explanation:

Local Persistent Volumes with 'WaitForFirstConsumer' and node affinity are designed for scenarios requiring direct access to local storage like NVMe drives. This approach provides the best performance and data consistency compared to network-based solutions like NFS or cloud-based block storage, or shared storage solutions such as Ceph. 'hostPath' is discouraged for production use because it bypasses Kubernetes volume management. Local PV ensures the PVC is bound to PV at time of first use rather than during cluster set up.

NEW QUESTION # 29

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