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## NVIDIA AI Operations Sample Questions (Q49-Q54):

### NEW QUESTION # 49

You're using BCM to manage a cluster and need to upgrade the Kubernetes version. What considerations are critical to ensure a smooth upgrade process?

- A. Back up the etcd database before starting the upgrade.
- B. Drain nodes before upgrading them to minimize application downtime.
- C. Update the NVIDIA drivers and container runtime on all nodes after the Kubernetes upgrade.
- D. Ensure all worker nodes have sufficient resources (CPU, memory) for the new Kubernetes version.
- E. Test the upgrade in a staging environment before applying it to the production cluster.

**Answer: A,B,D,E**

Explanation:

Backing up etcd is crucial for rollback. Resource sufficiency prevents upgrade failures. Testing in staging identifies potential issues. Draining minimizes downtime. NVIDIA drivers should ideally be checked for compatibility and potentially updated before the Kubernetes upgrade.

### NEW QUESTION # 50

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

**Answer: B**

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 # 51

You have a VMI container running on a cloud platform. You need to monitor the GPU utilization (e.g., GPU memory usage, GPU utilization percentage). Which of the following tools is MOST commonly used for this purpose?

- A. nvidia-smi
- B. vmstat
- C. top
- D. htop

- E. ps

**Answer: A**

Explanation:

'nvidia-smi' (NVIDIA System Management Interface) is the primary command-line utility for monitoring and managing NVIDIA GPUs. It provides detailed information about GPU utilization, memory usage, temperature, and other metrics.

**NEW QUESTION # 52**

You're troubleshooting a pod that's failing to schedule on a node in your BCM-managed cluster, despite the node having available GPU resources. What's the most likely cause, and how would you diagnose it?

- A. The pod's resource requests exceed the node's capacity. Use \*kubectl describe pod to view resource requests and limits.
- B. The pod is missing the necessary NVIDIA device plugin. Check the pod's YAML for 'nvidia.com/gpu' resource requests.
- C. The Kubernetes scheduler is misconfigured. Restart the 'kube-scheduler\*' service on the master node.
- D. The node is tainted, preventing pods from being scheduled. Use 'kubectl describe node to check for taints.
- E. The node is cordoned, preventing new pods from being scheduled. Use 'kubectl get nodes' to check node status.

**Answer: A,B,D,E**

Explanation:

Taints prevent scheduling unless tolerated. Exceeding capacity prevents scheduling. The device plugin is required for GPU access. Cordon nodes don't accept new pods. Restarting kube-scheduler is a less likely first step.

**NEW QUESTION # 53**

Which of the following Magnum IO components would be MOST beneficial for accelerating data loading in a deep learning training pipeline that reads data directly from NVMe drives?

- A. NVSHMEM
- B. GPUDirect RDMA
- C. GPUDirect Storage
- D. InfiniBand
- E. CUDA-Aware MPI

**Answer: C**

Explanation:

GPUDirect Storage is specifically designed to allow direct memory access between NVMe drives and GPU memory, bypassing the CPU. This dramatically accelerates data loading and reduces CPU utilization. NVSHMEM is for inter-GPU shared memory. GPUDirect RDMA is for network communication. CUDA-Aware MPI is for distributed processing. InfiniBand is a network technology but GPUDirect Storage utilizes it most efficiently in this data loading scenario.

**NEW QUESTION # 54**

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