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NVIDIA AI Operations Sample Questions (Q52-Q57):

NEW QUESTION # 52

Consider the following Kubernetes manifest snippet:

- A. Allocates 1024milliCPU (0.1 Core) for the container
- B. Limits the container to using only 1024MiB of GPU memory.
- C. Specifies that the container requires one NVIDIA GPU.
- D. Sets the container's memory limit to 2048MiB.
- E. Requests one CPU core for the container.

Answer: C,D,E

Explanation:

The manifest requests 1 NVIDIA GPU via 'nvidia.com/gpu: 1', requests one CPU core, and sets the memory limit to 2048MiB. While the CPU request could also be viewed as allocating CPU time slices, setting the millicpu limit is more precise for restricting CPU usage.

NEW QUESTION # 53

You are using BeeGFS as a shared file system for your AI training cluster. You observe that some nodes are experiencing significantly lower read performance compared to others. How would you approach troubleshooting this performance discrepancy, considering the BeeGFS architecture?

- A. Examine the logs of the BeeGFS client on the affected nodes for errors or warnings.
- B. Verify that all client nodes have the same BeeGFS client version installed.
- C. Investigate if data locality features within BeeGFS are properly configured to ensure that the data accessed by each node is stored close to it.
- D. Check the network connectivity between the affected client nodes and the BeeGFS metadata and storage servers (MDS and OSS).
- E. Restart the entire BeeGFS cluster to resolve any temporary inconsistencies.

Answer: A,B,C,D

Explanation:

Verifying client version consistency ensures compatibility. Network connectivity is crucial for communication with BeeGFS servers. Client logs provide error information. Data locality ensures data resides closer to the compute nodes. Restarting the whole cluster is not the right choice, and you should investigate the root cause first.

NEW QUESTION # 54

Which of the following correctly identifies the key components of a Kubernetes cluster and their roles?

- A. The control plane consists of the kube-apiserver, etcd, kube-scheduler, and kube-controller-manager, while worker nodes run kubelet and kube-proxy.
- B. Worker nodes manage the kube-apiserver and etcd, while the control plane handles all container runtimes.
- C. The control plane is responsible for running all application containers, while worker nodes manage network traffic through etcd.
- D. The control plane includes the kubelet and kube-proxy, and worker nodes are responsible for running etcd and the scheduler.

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In Kubernetes architecture, the control plane is composed of several core components including the kube-apiserver, etcd (the cluster's key-value store), kube-scheduler, and kube-controller-manager. These manage the overall cluster state, scheduling, and orchestration

of workloads. The worker nodes are responsible for running the actual containers and include the kubelet (agent that communicates with the control plane) and kube-proxy (handles network routing for services). Other options incorrectly assign these components or roles.

NEW QUESTION # 55

A system administrator is troubleshooting a Docker container that crashes unexpectedly due to a segmentation fault. They want to generate and analyze core dumps to identify the root cause of the crash.

Why would generating core dumps be a critical step in troubleshooting this issue?

- A. Core dumps provide real-time logs that can be used to monitor ongoing application performance.
- **B. Core dumps capture the memory state of the process at the time of the crash.**
- C. Core dumps restore the process to its previous state, often fixing the error-causing crash.
- D. Core dumps prevent future crashes by stopping any further execution of the faulty process.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Core dumps capture the memory state of a process at the time of its crash, providing a snapshot useful for post-mortem debugging. Analyzing core dumps helps identify the cause of segmentation faults or other critical errors by revealing what the process was doing at failure, including stack traces, variable states, and memory content.

NEW QUESTION # 56

You are managing a high availability (HA) cluster that hosts mission-critical applications. One of the nodes in the cluster has failed, but the application remains available to users.

What mechanism is responsible for ensuring that the workload continues to run without interruption?

- A. Load balancing across all nodes in the cluster.
- B. Manual intervention by the system administrator to restart services.
- **C. The failover mechanism that automatically transfers workloads to a standby node.**
- D. Data replication between nodes to ensure data integrity.

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

In an HA cluster, the failover mechanism is responsible for detecting node failures and automatically transferring workloads to a standby or redundant node to maintain service availability. This process ensures mission-critical applications continue running without interruption. Load balancing helps distribute traffic but does not handle node failures. Manual intervention is not ideal for HA, and data replication ensures data integrity but does not itself manage workload continuity.

NEW QUESTION # 57

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