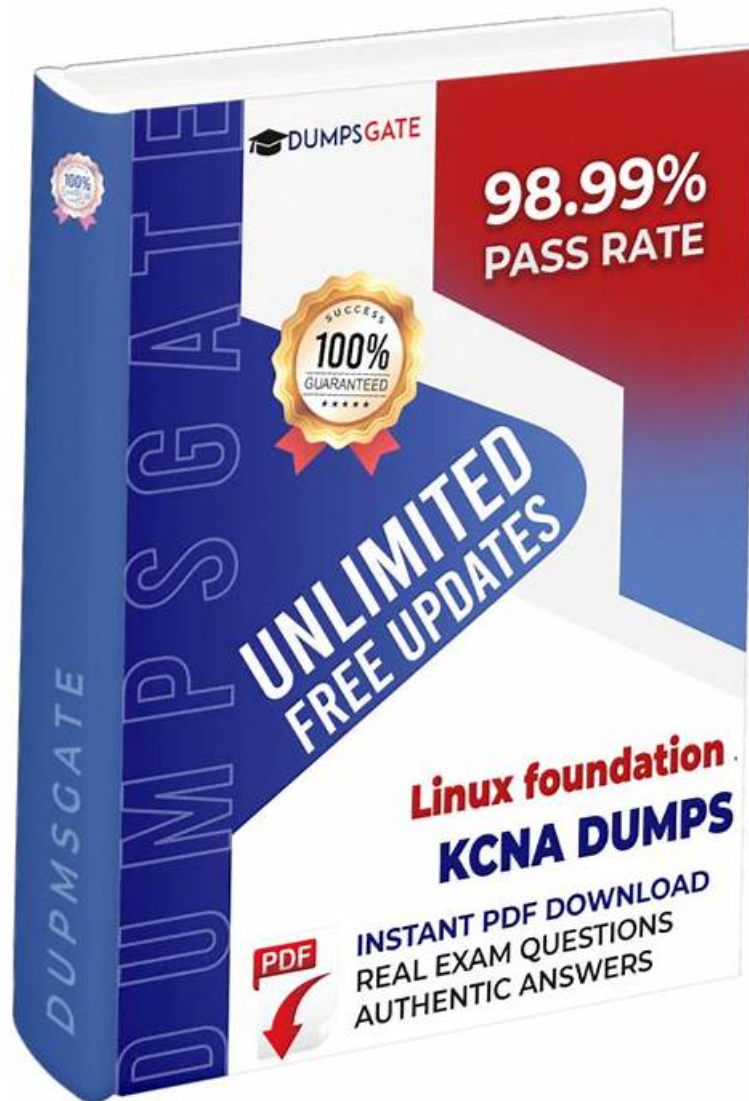


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Linux Foundation has been providing certification exams to individuals who want to demonstrate their expertise in open source technologies. One of their newest offerings is the KCNA (Kubernetes and Cloud Native Associate) Certification Exam. KCNA exam is designed for individuals who want to prove their knowledge and skills in cloud native computing and Kubernetes.

Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Certification Exam is a professional certification exam that validates the skills and knowledge of individuals in the field of Kubernetes and cloud native technologies. KCNA Exam is designed for individuals who are interested in learning and mastering the fundamentals of Kubernetes and cloud native technologies, and who wish to demonstrate their expertise in these areas to potential employers.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q50-Q55):

NEW QUESTION # 50

Which of the following factors does scheduling take into account when selecting a Node?

- A. Resource requirements
- B. How many replicas there are in a Deployment
- C. The number of existing Pods on a Node
- D. Services

Answer: A

Explanation:

Scheduling takes resource requirements into account in the form of resource requests.

NEW QUESTION # 51

You are running a production-critical application on Kubernetes. You need to ensure that if a pod fails, a new pod is automatically created to replace it. Which Kubernetes feature accomplishes this automatic pod replacement?

- A. ReplicaSet
- B. Pod Disruption Budget (PDB)
- C. Namespace
- D. Deployment
- E. Service

Answer: D

Explanation:

Deployments are Kubernetes resources designed to manage the lifecycle of pods. They provide features like rolling updates, automatic restarts, and self-healing. When a pod fails, the Deployment controller detects the failure and automatically creates a new pod to replace it, ensuring high availability.

NEW QUESTION # 52

You're running a stateful application in Kubernetes with a HorizontalPodAutoscaler (HPA) configured. You want to ensure that scaling does not disrupt the application's state. What approach would you take to address this concern?

- A. Implement a custom scaling logic that ensures state persistence during scaling events.
- B. Configure the HPA to scale up and down only when the application is idle.
- C. Use a persistent volume claim (PVC) to store the application's state.

- D. Use a StatefulSet to manage the deployment of the application.
- E. Disable scaling for the application to maintain state consistency.

Answer: A,C,D

Explanation:

Several approaches can help maintain state during scaling for stateful applications: StatefulSets (A) manage stateful applications by providing persistent storage and stable network identities for Pods- Custom scaling logic (C) allows you to implement specific scaling strategies that preserve state, such as graceful shutdowns and data synchronization. Persistent volume claims (PVCs) (D) ensure that the application's data is stored on persistent volumes, preserving it even during scaling events. While options B and E might seem appealing, they are not practical solutions. Scaling during idle periods might not cover all scenarios, and disabling scaling altogether eliminates the benefits of autoscaling.

NEW QUESTION # 53

Your Kubernetes cluster is running a batch processing workload that only needs to run during specific time windows. How can you effectively manage the cost associated with this workload?

- A. Configure a horizontal pod autoscaler (HPA) to scale the workload up during the time window and down afterward.
- B. Utilize spot instances or preemptible nodes for the batch processing workload, leveraging their discounted pricing.
- C. Use a CronJob to schedule the batch processing workload to run only during the required time window.
- D. Manually scale the workload up and down during the required time window.
- E. Create a separate namespace for the batch processing workload and apply resource quotas to limit its resource consumption.

Answer: B,C

Explanation:

For batch processing workloads with defined time windows, scheduling and leveraging cost- effective resources are key. CronJobs can be used to schedule the workload to run only during the required time window, eliminating unnecessary resource consumption. Utilizing spot instances or preemptible nodes provides discounted pricing for workloads that can tolerate interruptions, further reducing costs. While HPA can scale workloads, it's not the most efficient approach for time-bound batch processing. Creating a separate namespace and applying resource quotas can limit resource usage, but doesn't directly address the intermittent nature of the workload. Manually scaling up and down is inefficient and prone to errors.

NEW QUESTION # 54

You are running a web application with a high demand for CPU resources. Which Kubernetes scheduling strategy could help you ensure pods are scheduled on nodes with the most available CPU capacity?

- A. Pod affinity
- B. Node anti-affinity
- C. Taints and tolerations
- D. Node affinity
- E. Pod anti-affinity

Answer: D

Explanation:

Node affinity allows you to define preferences for where pods should be scheduled based on node labels. You can use node affinity to prioritize scheduling on nodes with high CPU capacity. While the other options can influence scheduling, they are not directly focused on CPU availability.

NEW QUESTION # 55

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