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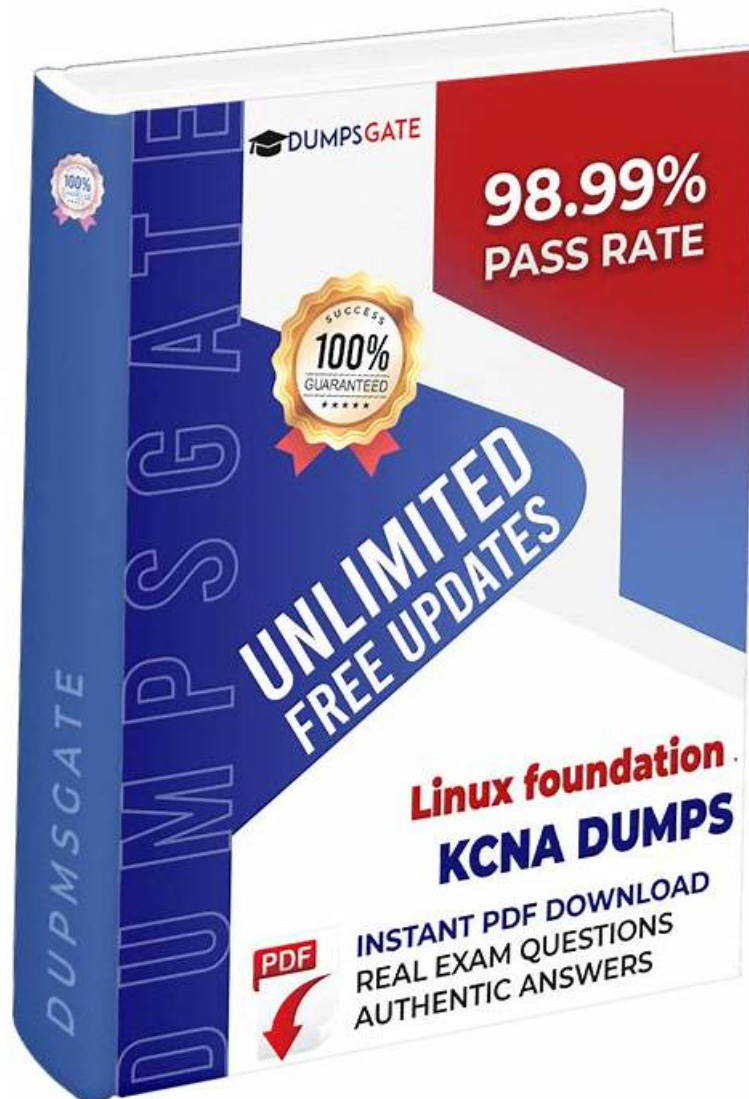
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Linux Foundation KCNA (Kubernetes and Cloud Native Associate) Certification Exam is a globally recognized certification program designed for IT professionals who want to demonstrate their skills and knowledge in container orchestration and cloud-native technologies. KCNA exam provides a comprehensive assessment of an individual's understanding of Kubernetes and other cloud-native technologies, including containerization, microservices, and networking.

Linux Foundation KCNA Certification Exam is aimed at professionals who are looking to enhance their skills in cloud computing and Kubernetes. KCNA exam covers a wide range of topics, including Kubernetes architecture, deployment, maintenance, and troubleshooting. It also covers cloud-native technologies such as containerization, microservices, and service mesh.

>> **KCNA New Real Exam** <<

2026 Linux Foundation Fantastic KCNA: Kubernetes and Cloud Native Associate New Real Exam

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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q116-Q121):

NEW QUESTION # 116
You are deploying a web application that requires high availability. You have configured a Kubernetes Deployment with 3 replicas. However, you notice that when one pod restarts, it takes a significant amount of time for the application to become fully operational again. What Kubernetes feature could you use to minimize the downtime during pod restarts?

- A. StatefulSet
- B. Pod Disruption Budget
- C. Horizontal Pod Autoscaler
- D. DaemonSet
- E. Service

Answer: B

Explanation:
A Pod Disruption Budget (PDB) allows you to specify a minimum number of healthy pods that must be available at any given time. This helps prevent large-scale disruptions during rolling updates or pod restarts. By setting a PDB, you can ensure that your web application remains available during these events, minimizing downtime.

NEW QUESTION # 117
Which of the following are characteristics of Statefulsets?

- A. Creates replica sets
- B. Ordered, graceful deployment and scaling
- C. Uses headless services

Answer: B

Explanation:
https://kubernetes.io/docs/concepts/workloads/controllers/statefulset/

Using StatefulSets

StatefulSets are valuable for applications that require one or more of the following.

- Stable, unique network identifiers.
- Stable, persistent storage.
- Ordered, graceful deployment and scaling.
- Ordered, automated rolling updates.

NEW QUESTION # 118

You are using Prometheus to monitor a Kubernetes cluster and want to create an alert that triggers when the number of failed deployments in a specific namespace exceeds a certain threshold. Which Prometheus query can help achieve this?

- A.
  `kube_deployment_status_replicas_available{namespace=""} < 5`
- B.
  `sum(kube_deployment_status_replicas_unavailable{namespace=""} == 1) > 5`
- C.
  `count(kube_deployment_status_replicas_available{namespace=""} == 0) > 5`
- D.
  `kube_deployment_status_replicas_unavailable{namespace=""} > 5`
- E.
  `increase(kube_deployment_status_replicas_available{namespace=""} == 0)[5m] > 5`

Answer: B

Explanation:
The query •sum(kube_deployment_status_replicas_unavailable{namespace=""} 1) > 5' focuses on the 'replicas_unavailable' metric for deployments in the specified namespace. It counts deployments where the unavailable replica count is 1 , effectively indicating failed deployments. If this count exceeds 5, the alert will trigger.

NEW QUESTION # 119

You're managing a Kubernetes cluster with several deployments using resource requests and limits. Which of the following strategies can help you effectively manage resource utilization and potentially reduce costs?

- A. Utilize resource quotas to restrict the total resources that can be consumed by namespaces.
- B. Use Horizontal Pod Autoscaler (HPA) to adjust the number of pods based on resource utilization and load.
- C. Set resource limits lower than requests to encourage efficient resource use.
- D. Configure resource reservation to ensure a minimum amount of resources is always available.
- E. Increase resource requests for all deployments to ensure enough resources are always available.

Answer: A,B,D

Explanation:
The most effective strategies for managing resource utilization and cost in Kubernetes involve dynamic scaling and resource allocation. Horizontal Pod Autoscaler (HPA) allows you to adjust the number of pods based on resource utilization, reducing overprovisioning. Resource quotas restrict the total resources that can be consumed by namespaces, preventing resource exhaustion and potential cost spikes. Resource reservation guarantees a minimum amount of resources for critical applications, ensuring they perform well even under high load. Increasing requests without adjusting limits can lead to overprovisioning, while setting limits lower than requests can limit pod performance.

NEW QUESTION # 120

You have a Kubernetes cluster with multiple namespaces. You are running different applications in separate namespaces and want to ensure that HPAs in each namespace are not interfering with each other. Which of the following measures should you take?

- A. Create a custom controller to manage HPAs across multiple namespaces and coordinate scaling decisions.
- B. Configure resource quotas for each namespace to prevent resource over-allocation by HPAs.
- C. Use a single HPA for all applications in all namespaces.
- D. There is no need for any specific measures as HPAs are isolated by default within their respective namespaces.
- E. Ensure that the •minReplicas• and •maxReplicaS values for HPAs across namespaces are aligned.

Answer: A,B

Explanation:

You need to ensure that HPAs are not competing for resources across namespaces- Resource quotas (C) limit resource consumption within each namespace, preventing HPAs from consuming resources intended for other applications. A custom controller (D) can be used to manage HPAs across multiple namespaces, coordinating scaling decisions to avoid resource contention and optimize utilization across the cluster. While options A and B might seem relevant, they are not effective solutions for preventing interference between HPAs in different namespaces. Option E is incorrect; HPAs operate within their namespaces, but resource contention can occur if not managed properly.

NEW QUESTION # 121

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