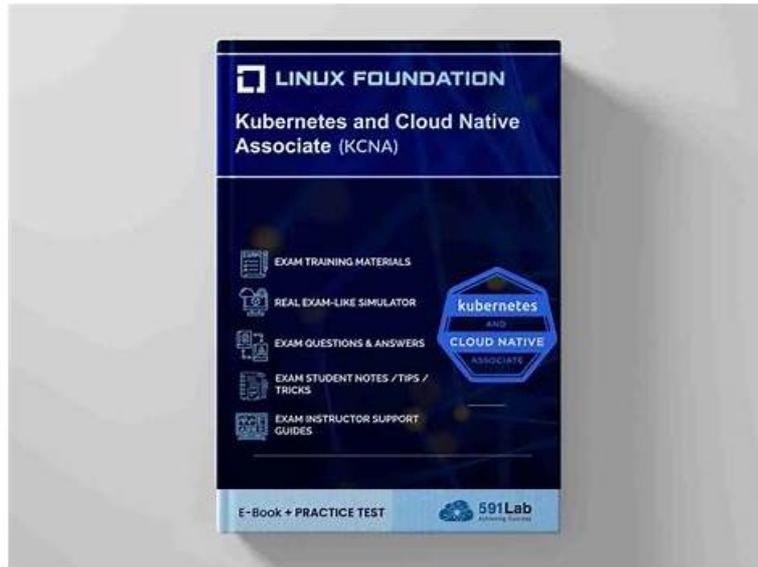


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The KCNA certification exam covers a broad range of topics related to Kubernetes and cloud-native technologies. KCNA exam consists of 40 multiple-choice questions that cover fundamental concepts such as Kubernetes architecture, deployment, and management. KCNA exam also tests knowledge of related technologies such as containerization, container orchestration, and cloud-native application development. Successful completion of the KCNA certification exam demonstrates a strong understanding of these technologies and their application in real-world scenarios.

Linux Foundation KCNA Certification is an excellent way for individuals to validate their skills and knowledge in Kubernetes and cloud-native technologies. Kubernetes and Cloud Native Associate certification provides a solid foundation in these technologies and is recognized globally. With the growing adoption of cloud-native technologies, the demand for certified professionals is on the rise, and the KCNA certification is an excellent way to stand out in a competitive job market.

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Linux Foundation KCNA Certification Exam is recognized globally and is highly valued by organizations that are looking for professionals with expertise in Kubernetes and cloud native technologies. Successful candidates of this certification program are equipped with the skills and knowledge to work in a variety of roles, including cloud administrators, DevOps engineers, and application developers. In the following paragraphs, we will discuss the benefits of the Linux Foundation KCNA Certification Exam and how it can help professionals advance their careers in the field of cloud computing.

Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q149-Q154):

NEW QUESTION # 149

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

Answer: A,B,C

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 # 150

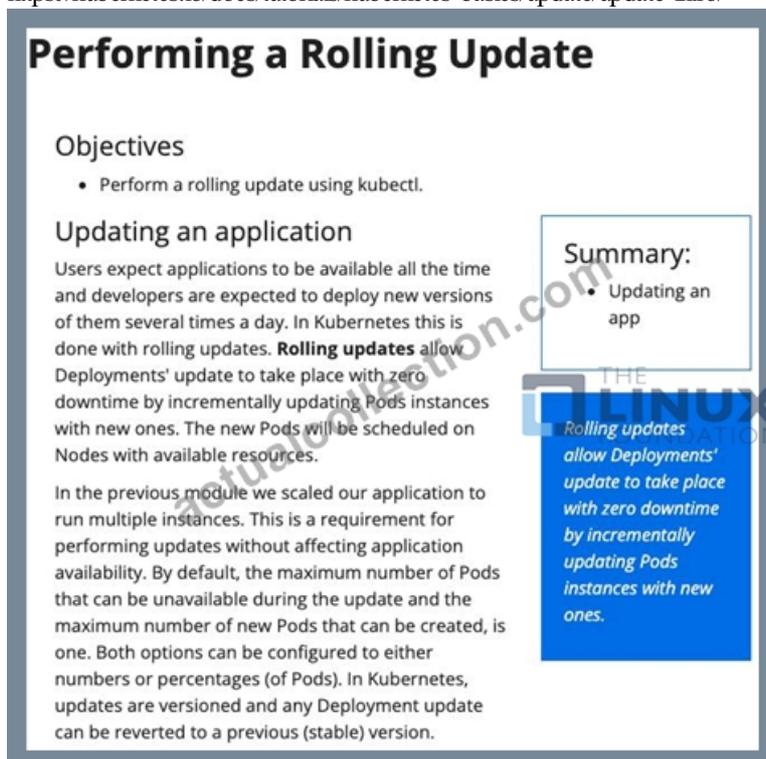
The Kubernetes rolling update is used for ___.

- A. Updating a service
- B. Updating a deployment
- C. Scaling an application

Answer: B

Explanation:

<https://kubernetes.io/docs/tutorials/kubernetes-basics/update/update-intro/>



Performing a Rolling Update

Objectives

- Perform a rolling update using kubectl.

Updating an application

Users expect applications to be available all the time and developers are expected to deploy new versions of them several times a day. In Kubernetes this is done with rolling updates. **Rolling updates** allow Deployments' update to take place with zero downtime by incrementally updating Pods instances with new ones. The new Pods will be scheduled on Nodes with available resources.

In the previous module we scaled our application to run multiple instances. This is a requirement for performing updates without affecting application availability. By default, the maximum number of Pods that can be unavailable during the update and the maximum number of new Pods that can be created, is one. Both options can be configured to either numbers or percentages (of Pods). In Kubernetes, updates are versioned and any Deployment update can be reverted to a previous (stable) version.

Summary:

- Updating an app

Rolling updates allow Deployments' update to take place with zero downtime by incrementally updating Pods instances with new ones.

NEW QUESTION # 151

What cloud-native construct does a kubernetes pod wrap?

- A. Docker image
- B. Virtual Machine (VM)
- **C. Container**
- D. side car process

Answer: C

Explanation:

Kubernetes is an orchestrator of containerized apps. However, containers must be wrapped in pods before they can be deployed on kubernetes.

NEW QUESTION # 152

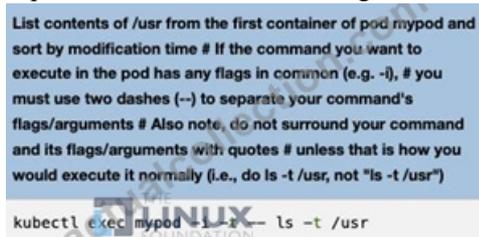
What is the command used to login to the pod?

- A. kubectl list
- B. kubectl login
- **C. kubectl exec**
- D. kubectl get

Answer: C

Explanation:

<https://kubernetes.io/docs/reference/generated/kubectl/kubectl-commands#exec>



NEW QUESTION # 153

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. Horizontal Pod Autoscaler
- C. DaemonSet
- D. Service
- **E. Pod Disruption Budget**

Answer: E

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 # 154

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