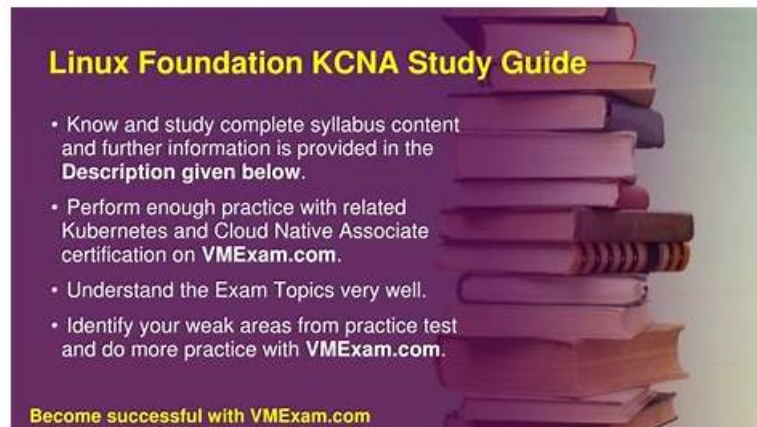


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Linux Foundation Kubernetes and Cloud Native Associate Sample Questions (Q21-Q26):

NEW QUESTION # 21

You have a containerized application that needs to access a specific environment variable. Which of the following methods would you typically use to provide this environment variable within a Kubernetes Pod definition?

- A. VolumeMounts
- B. ConfigMap
- C. Secret
- D. Environment variable within the container image
- E. Pod Security Policy

Answer: B,C

Explanation:

Both ConfigMaps and Secrets are Kubernetes resources that allow you to pass configuration data to containers. ConfigMaps store simple key-value pairs, suitable for environment variables, while Secrets are used to store sensitive information like passwords or API keys. In this case, both are valid options to provide environment variables within a Pod.

NEW QUESTION # 22

You have a Kubernetes cluster with a deployment of a stateless application. Explain how you would ensure high availability for the application even if a node fails. What are some essential configurations to implement for this purpose?

- **A. Configure a pod disruption budget (PDB) to prevent a large number of pods from being deleted simultaneously.**
- B. Enable persistent volumes to store application data on a separate storage system.
- C. Use a custom resource definition (CRD) to manage the high availability of the application.
- **D. Configure the deployment with a high number of replicas and use a load balancer to distribute traffic.**
- E. Configure the deployment with a low number of replicas and use a service to expose the application.

Answer: A,D

Explanation:

To achieve high availability for a stateless application in a Kubernetes cluster, you need to implement the following configurations:

Configure the deployment with a high number of replicas: This ensures that multiple instances of the application are running concurrently, and if one node fails, the others can take over the load. The number of replicas should be sufficient to accommodate the expected traffic and handle potential node failures.

Use a load balancer to distribute traffic: A load balancer acts as a central point for incoming traffic and distributes it across the different instances of the application. This provides a single point of access and load balancing capabilities. By using a load balancer, you ensure that traffic is directed to healthy instances, even if some nodes are unavailable.

Configure a pod disruption budget (PDB): A PDB is a Kubernetes resource that prevents a large number of pods from being deleted simultaneously. This is important for ensuring that the application remains available even if a node is undergoing maintenance or fails. By configuring a PDB, you specify a minimum number of pods that must be running for the deployment, preventing sudden disruptions due to node failures or updates.

These configurations work together to ensure high availability for the application, even in the face of node failures. Note that using persistent volumes is not strictly necessary for high availability in a stateless application. Stateless applications do not store data persistently, so data loss on a single node does not affect the application's availability.

NEW QUESTION # 23

Your organization is adopting a cloud-native approach and plans to migrate several legacy applications to Kubernetes. Which role would be primarily responsible for designing and implementing the overall Kubernetes infrastructure, including resource allocation, networking, and security policies?

- A. Data Scientist
- B. Site Reliability Engineer (SRE)
- C. Security Engineer
- **D. Cloud Architect**
- E. DevOps Engineer

Answer: D

Explanation:

A Cloud Architect is responsible for the overall design, implementation, and management of cloud-based infrastructure, including Kubernetes. They ensure the infrastructure meets the organization's needs for scalability, security, and performance.

NEW QUESTION # 24

You have a CI/CD pipeline that builds and deploys a new version of your application to Kubernetes. After deployment, you notice performance issues and need to roll back to the previous version. Which of the following strategies can be used to achieve a smooth rollback?

- A. Redeploy the previous version of the application manually.
- B. Edit the Deployment configuration to change the container image to the previous version.
- **C. Use Kubernetes Deployments with rollback capabilities to revert to a previous deployment revision.**

- D. Use a canary deployment strategy to gradually roll back the traffic.
- E. Manually delete the new pods and restart the old pods.

Answer: C

Explanation:

Kubernetes Deployments track historical revisions. By leveraging rollback capabilities within Deployments, you can easily revert to a previous successful deployment revision, ensuring a smooth transition without manual intervention.

NEW QUESTION # 25

You are running a resource-intensive application in Kubernetes. You want to reduce costs without impacting performance. Which of the following approaches would be most effective?

- **A. Implement vertical pod autoscaling to adjust the resource allocation based on actual usage.**
- B. Decrease the number of replicas for the application's deployment.
- C. Reduce the resource requests and limits for the application's pods.
- D. Migrate the application to a different cloud provider with lower pricing.
- **E. Optimize the application code to reduce resource consumption.**

Answer: A,E

Explanation:

For resource-intensive applications, the most effective cost reduction strategies focus on optimizing resource usage and application efficiency. Vertical pod autoscaling (VPA) dynamically adjusts resource allocation based on actual usage, ensuring pods have sufficient resources without overprovisioning. Optimizing the application code itself to reduce resource consumption is crucial, as it can significantly impact overall cost. While decreasing replicas or reducing requests/limits might seem tempting, they can negatively impact performance. Migrating to a different cloud provider might offer cost advantages, but it's a complex and potentially disruptive process.

NEW QUESTION # 26

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