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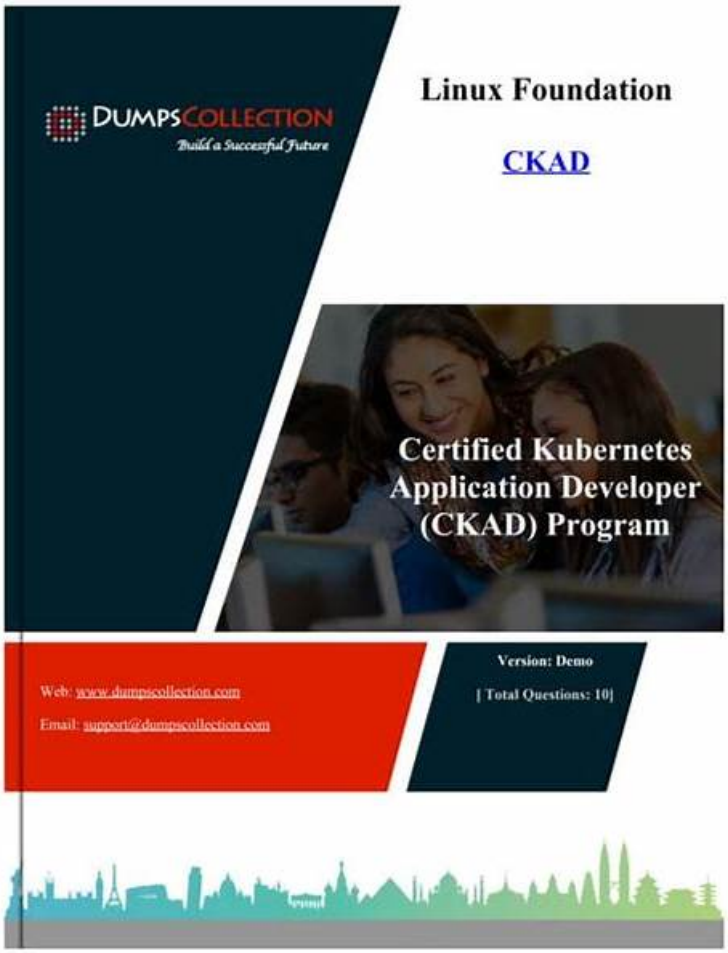

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Linux Foundation CKAD (Linux Foundation Certified Kubernetes Application Developer) Certification Exam is a rigorous and comprehensive exam designed to test the skills and knowledge of developers who work with Kubernetes. Kubernetes is an open-source container orchestration system that has become the de facto standard for managing containerized applications. The CKAD Certification is designed to validate a developer's ability to deploy, configure, and manage applications on Kubernetes.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q58-Q63):

NEW QUESTION # 58
You have an application that requires a TLS certificate for secure communication Witn a specific service Within tne Kubernetes cluster. How can you create a Kubernetes secret that holds the certificate and private key, and then configure your deployment to use it?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Generate a Certificate and Key:
- If you don't already have a certificate and private key, you can use tools like 'openssl to generate them:
bash
openssl req -x509 -newkey rsa:2048 -keyout private-key -out cert.pem -days 365 -nodes
- This will create two files: 'private-key' (private key) and 'cert.pern' (certificate).
2. Create a Kubernetes Secret:
- Create a YAML file, for example, 'tls-secret.yaml':
- Replace and with the Base64 encoded contents of your certificate and key files. You can use 'base64' command for encoding: bash echo "certificate content" | base64 echo "private key content" | base64 3. Apply the Secret: - Apply the secret to your Kubernetes cluster: bash kubectl apply -f tls-secret.yaml 4. Modify your Deployment: - Add the following to your deployment YAML file:
5. Update your Application: - Your application needs to be configured to use the mounted TLS certificate and key from the secret. The specific configuration will depend on the application. - It will typically involve setting environment variables pointing to the location of the certificate and key files, for example, 'TLS_CERT_FILE'and 'TLS_KEY_FILE.

NEW QUESTION # 59
You have a Kubernetes cluster With a Deployment named 'my-app' running multiple replicas of your application. You need to ensure that only authorized users can access the application's pods through the Kubernetes APL Implement a role-based access control (RBAC) policy that allows only users in the "developers' group to access the pods of the 'my-app' Deployment.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Role: Define a Role that grants access to the 'my-app' Deployment pods.
2. Create a RoleBinding: Bind the created Role to the 'developers' group.
3. Apply the Role and RoleBinding: use 'kubectl apply' to create the Role and ROIeBinding resources. bash kubectl apply -f my-app-pod-readenyaml kubectl apply -f my-app-pod-reader-binding.yaml 4. Verify Access: Attempt to access the pods of the 'my-app' Deployment from a user in the "developers' group. You should be able to access the pods. Attempt to access the pods from a user not in the 'developers' group. You should receive an error indicating insufficient permissions.,

NEW QUESTION # 60
You are managing a Kubernetes cluster with multiple teams working on different projects. Each team needs its own isolated environment within the cluster to deploy tneir applications and manage their resources witnout interfering With others. Describe how you would use Kubernetes namespaces to achieve this, and provide an example of how you might configure a namespace for a team working on a new e-commerce application.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create Namespaces for Teams: use 'kubectl create namespace command to create namespaces for each team. For example, 'kubectl create namespace ecom-team'.
2. Configure Resource Quotas: Set resource limits for each namespace using 'kubectl create -f command. This prevents one team from consuming all the resources available on the cluster Heres a sample resource quota file:
3. Apply Role-Based Access Control (RBAC): IJse 'kubectl create -f ' command to define role bindings for each team. This allows you to control the actions that each team can perform within their namespace. Here's a sample role binding file:
4. Create Resources within the Namespace: Deploy your applications and other resources within the dedicated namespace for the e-commerce team. For example, you can deploy a 'Deployment Witn the following configuration:
5. Verify Namespace Configuration: IJse 'kubectl get namespaces' to list all namespaces, and 'kubectl describe namespace to view details of a specific namespace. 6. Manage Namespace Access: You can use tools like 'kubectl' or a graphical user interface (GIJI) to manage the access rights and resources within each namespace. 7. Cleanup: When a team no longer needs a specific namespace, you can delete it using 'kubectl delete namespace '.

NEW QUESTION # 61
You have a Kubernetes deployment named 'my-app' that runs an application with a specific configuration defined in a ConfigMap named 'my-config'. You need to implement a strategy to automatically update tne deployment wnen tne ConfigMap is changed.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a 'ConfigMap' named 'my-configs with the following contents:
2. Create a 'Deployment' named 'my-app' that mounts the 'my-config' ConfigMap as a volume:
3. Apply the ConfigMap and Deployment bash kubectl apply -f configmap.yaml kubectl apply -f deployment.yaml 4. Update the ConfigMap with new values:
5. Apply the updated ConfigMap: bash kubectl apply -f configmap.yaml - The 'kustomization.yamr file defines the resources (the 'deployment_yamr file) and the patches to apply. - The 'deployment_yamr file contains the base configuration for the deployment. - The patch.yamr tile applies a strategic merge patch to the deployment, configuring rolling updates and automatic updates triggered by new images. - The 'maxSurge' and 'maxunavailable' settings in the 'patch_yaml' define the maximum number of pods that can be added or removed during the update process. - The 'imagePullPolicy: Always' ensures that the new image is pulled from Docker Hub even if it exists in the pod's local cache, triggering the update.

NEW QUESTION # 62
Task
Create a new deployment for running.nginx with the following parameters;
* Run the deployment in the kdpd00201 namespace. The namespace has already been created
* Name the deployment frontend and configure with 4 replicas
* Configure the pod with a container image of lfccncf/nginx:1.13.7
* Set an environment variable of NGINX__PORT=8080 and also expose that port for the container above

Answer:

Explanation:
See the solution below.
Explanation:
Solution:

NEW QUESTION # 63
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