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The CKAD certification is an essential credential for developers who work with Kubernetes. It demonstrates a deep understanding of Kubernetes and the ability to deploy and manage applications on the platform. Linux Foundation Certified Kubernetes Application Developer Exam certification is recognized globally and is highly valued by employers who are looking for skilled Kubernetes developers. Linux Foundation Certified Kubernetes Application Developer Exam certification is also a valuable asset for developers who are looking to advance their careers in the Kubernetes ecosystem.

The CKAD Certification Exam is a performance-based exam that tests the practical skills of candidates in developing and deploying applications on Kubernetes clusters. CKAD exam consists of a set of performance-based tasks that simulate real-world scenarios. The tasks include deploying and configuring applications, creating and managing Kubernetes objects, and troubleshooting common issues. CKAD exam is proctored, and candidates are given a time limit of two hours to complete all the tasks.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q148-Q153):

NEW QUESTION # 148
You need to configure a Kubernetes Deployment to use a service account to access resources in a specific namespace. How can you create and assign a service account to your deployment, and how can you configure the service account to access resources in a different namespace?

Answer:

Explanation:

See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Service Account:
- Create a service account in the namespace where your deployment will run:
- Apply this YAML file using: bash kubectl apply -f service-account-yaml 2 Create a Role and Role8inding: - Define a role in the target namespace that the service account should have access to:
- Create a RoleBinding to bind the role to the service account:
- Apply the Role and Role8inding YAML files using: bash kubectl apply -f role-yaml kubectl apply -f rolebinding.yaml 3. Modify your Deployment: - Update your Deployment YAML file to use the service account:
- Apply the updated deployment 4. Verify Access: - You can now use the service account to access resources in the target namespace. For example, you can create a pod that uses the service account and run a command to access resources.

NEW QUESTION # 149

You have a Kubernetes cluster with a Deployment named 'my-app' that runs a web application. You want to restrict access to this application to only specific users within your organization. How would you use Service Accounts and RBAC to implement this?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1 . Create a Service Account:
- Create a new Service Account specifically for your application:
- Apply this YAML file using 'kubectl apply -f my-app-sa.yaml'. 2. Create a Role: - Define a Role that grants specific permissions to the Service Account. For example, you might want to grant read access to the Deployment's secrets:
- Apply this YAML file using 'kubectl apply -f my-app-reader.yaml' 3. Bind the Role to the Service Account: - Create a RoleBinding that associates the 'my-app-reader' Role with the 'my-app-sa' Service Account:
- Apply this YAML file using 'kubectl apply -f my-app-sa-binding.yaml' 4. Update the Deployment: - Update the 'my-app' Deployment to use the new Service Account:
- Apply the updated Deployment configuration using 'kubectl apply -f my-app.yaml'. 5. Verify: - Ensure that pods within the 'my-app' Deployment are running with the correct Service Account. You can use 'kubectl get pods -l app=my-app -o wide' to inspect the pod details. 6. Restricting Access to Specific Users: - To restrict access to the application to specific users within your organization, you would need to: - Configure a more granular Role to grant specific access levels (e.g., read-only, edit, etc.). - Use a Kubernetes authentication provider (such as OAuth2 or OpenID Connect) to authenticate and authorize users. - Bind the Role to the user's identity, ensuring they have the appropriate permissions. Important Note: This example provides a basic setup for RBAC with Service Accounts. In real-world scenarios, you might need to configure more complex RBAC rules to address your specific security requirements and user access control policies.]

NEW QUESTION # 150

Context
Context
You have been tasked with scaling an existing deployment for availability, and creating a service to expose the deployment within your infrastructure.
Task
Start with the deployment named kdsn00101-deployment which has already been deployed to the namespace kdsn00101 . Edit it to:
* Add the func=webFrontEnd key/value label to the pod template metadata to identify the pod for the service definition
* Have 4 replicas
Next, create ana deploy in namespace kdsn00l01 a service that accomplishes the following:
* Exposes the service on TCP port 8080
* is mapped to me pods defined by the specification of kdsn00l01-deployment
* Is of type NodePort
* Has a name of cherry

Answer:

Explanation:
Solution:

NEW QUESTION # 151
Task:
1) First update the Deployment cka00017-deployment in the ckad00017 namespace:
Role userUI
2) Next, Create a NodePort Service named cherry in the ckad00017 nmespace exposing the ckad00017-deployment Deployment on TCP port 8888 See the solution below.

Answer:

Explanation:
Explanation
Solution:
Text Description automatically generated

Text Description automatically generated

Text Description automatically generated

NEW QUESTION # 152
You have a Deployment named 'my-app-deployment' running an application that requires a specific version of a database. This version is available in a private Docker registry with access credentials stored in a Secret. How would you configure the Deployment to pull the database image from the private registry using the Secret's credentials?

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Secret:
- Create a secret containing the usemame and password required to access the private registry.
- Replace 'your-registry-username' and 'your-registry-password' with your actual credentials.
2. Update the Deployment - Modify the Deployment configuration to include the 'imagePullSecrets' field. - Add the name oftne secret you created in the previous step. - Replace 'your-private-registry-domain/your-database-image:your-version' with the actual image name and version.
3. Apply the Changes: - Apply the updated Deployment configuration using 'kubectl apply -f my-app-deployment.yamr. 4. Verify the Pull: - Check the logs of the Pods in the Deployment. You should see messages indicating that the database image is pulled from the private registry using the provided credentials.

NEW QUESTION # 153
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