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Linux Foundation Certified Kubernetes Application Developer Exam Sample

Questions (Q98-Q103):

NEW QUESTION # 98

You have a Deployment running a container image for a web application. The application's configuration files are currently stored within the image itself. you want to move the configuration files to a ConfigMap so that they can be updated independently of the application image. Describe the steps involved in modifying the Deployment and creating a ConfigMap to achieve this separation.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a ConfigMap:

- Create a ConfigMap using 'kubectl create configmap' with the configuration files. For example:

`kubectl create configmap webapp-config --from-literal=config.json='{\"port\": 8080, \"database_url\": \"mongodb://localhost27017\"}'`

- Replace 'config.json' with the name of your configuration file and the JSON content with your actual configuration values.

2. Modify the Deployment:

- Modify your Deployment YAML file to mount the ConfigMap as a volume. Here's an example:

3. Apply the Changes: - Apply the updated

Deployment using 'kubectl apply -f deployment.yaml'

4. Verify the Update: - Check the logs of the pods using 'kubectl logs -f'

You should see the application loading configuration values from the ConfigMap.

5. Update the Configuration: - You can now update the

configuration files within the ConfigMap without rebuilding the image. For example:

- This will update the ConfigMap and trigger a rolling update of the Deployment, effectively updating the application configuration

without rebuilding the image.

NEW QUESTION # 99

Task:

Update the Deployment app-1 in the frontend namespace to use the existing ServiceAccount app.

Answer:

Explanation:

See the solution below.

Explanation

Solution:

Text Description automatically generated

NEW QUESTION # 100

You're tasked with deploying a containerized application that handles sensitive customer data. The security policy mandates that only containers with specific security profiles can access the data. How would you implement Pod Security Standards (PSS) in your Kubernetes cluster to enforce this requirement?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define Pod Security Policies:

- Create a Pod Security Policy (PSP) resource using a YAML file.

- Define the allowed security profiles based on your security requirements.

- You can restrict things like:

- Container privileges (root or non-root)

- Allowed capabilities (e.g., 'SYS_ADMIN')

- Security context constraints (e.g., read-only root filesystem)

- Access to host resources (e.g., devices, networking)

2. Apply the Pod Security Policy: - Use 'kubectl apply -f sensitive-data-psp.yaml' to apply the PSP to your cluster. 3. Modify Your Deployment (or other workload) to Use the PSP: - Update the Deployment (or other workload) YAML file to include a 'securitycontext' field that references the PSP you created. - Ensure that the container image and configuration adhere to the constraints defined in the PSP.

4. Verify Deployment: - Use 'kubectl get pods -l app=sensitive-data-app' to ensure your pods are running. - The pods should now adhere to the specified security constraints defined by the PSP 5. Enforcement: - Kubernetes will prevent pods from running if they violate the constraints defined in the PSP - This provides a layer of security enforcement for sensitive applications. Note: PSPs are deprecated in Kubernetes 1.25 and are replaced by Pod Security Admission. For newer Kubernetes versions, you would use Pod Security Admission to enforce these security constraints.]

NEW QUESTION # 101

Context

Task

A Deployment named backend-deployment in namespace staging runs a web application on port 8081.

Answer:

Explanation:

Solution:

□

NEW QUESTION # 102

You have a multi-container pod that uses a database container and an application container. The database container is responsible for storing sensitive data. You need to ensure that the database container only runs on nodes that have a specific label, like 'sensitive-data=true', for added security. How would you implement this constraint using Pod Affinity and node selectors?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Define Node Labels:

- First, you need to label your nodes appropriately. I-Jse 'kubectl label nodes sensitive-data=true' for nodes that should host the database container

2. Create Pod Affinity Rules:

- In your pod definition, add a 'nodeselector' to enforce the requirement.

3. Apply the Pod Definition: - Apply the updated pod definition using 'kubectl apply -f my-app.yaml' 4. Verification: - Check the pod status using 'kubectl get pods my-app'. Ensure the pod is scheduled on a node with the 'sensitive-data=true' label. 5. Further Security: - You can additionally use 'podAffinity' to ensure that the database container and the application container run on different nodes. This adds an extra layer of security in case one node is compromised.

- In this example, 'podAntiAffinity' with 'requiredDuringSchedulingIgnoredDuringExecution' ensures that the database container and the application container are not scheduled on the same node, thus preventing potential data breaches. ,

NEW QUESTION # 103

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