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```
student@node-1:~$ kubectl get pods -n web
NAME      READY   STATUS    RESTARTS   AGE
cache     1/1     Running   0           9s
student@node-1:~$ kubectl create secret generic some-secret --from-literal=key1=value4
secret/some-secret created
student@node-1:~$ kubectl get secret
NAME      TYPE      DATA   AGE
default-token-4kvr5  kubernetes.io/service-account-token  3   2d11h
some-secret  Opaque    1       3s
student@node-1:~$ kubectl run nginx-secret --image=nginx --dry-run=client -o yaml > nginx_secret.yaml
student@node-1:~$ vim nginx_secret.yaml
student@node-1:~$ kubectl create -f nginx_secret.yaml
pod/nginx-secret created
student@node-1:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
liveness-http  1/1     Running   0           6h38m
nginx-101     1/1     Running   0           6h39m
nginx-secret  0/1     ContainerCreating  0           4s
poller       1/1     Running   0           6h39m
student@node-1:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
liveness-http  1/1     Running   0           6h38m
nginx-101     1/1     Running   0           6h39m
nginx-secret  1/1     Running   0           8s
poller       1/1     Running   0           6h39m
student@node-1:~$
```

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CKAD certification is important because it is an industry-recognized credential that demonstrates an individual's expertise in Kubernetes application development. Kubernetes is widely used in the industry and is the most popular container orchestration system. Thus, CKAD certification provides a competitive edge to an individual in the job market and increases their chances of getting hired.

The CKAD Exam is designed to test the practical skills of developers in deploying applications on Kubernetes. CKAD exam is designed to be hands-on, and candidates are required to demonstrate their ability to work with Kubernetes by completing a series of practical tasks within a set timeframe. CKAD exam is conducted online and is proctored to ensure the integrity of the certification process.

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The Linux Foundation Certified Kubernetes Application Developer Exam certification exam is administered online and can be taken from anywhere in the world. Candidates must have a strong understanding of Kubernetes fundamentals, including how to deploy and manage applications in a Kubernetes cluster. They must also have a solid understanding of Linux command-line tools and basic networking concepts. Upon successful completion of the CKAD Certification Exam, candidates will receive a certification that demonstrates their proficiency in Kubernetes application development.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q106-Q111):

NEW QUESTION # 106

You have an application that requires a TLS certificate for secure communication with a specific service within the 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.pem' (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 # 107

You have a Deployment named 'web-app-deployment' that runs 5 replicas of a web application container. You need to ensure that only one pod is updated at a time during a rolling update. Additionally, you want to set the update strategy so that no more than 2 pods are unavailable at any given time.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1). Update the Deployment YAML:-

- Update the 'replicas' to 5.

- Define 'maxUnavailable: 1' and 'maxSurge: 2' in the 'strategy.rollingUpdate' section to control the rolling update process.

□ - Configure a 'strategy.type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f web-app-deployment.yaml'

3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments web-app-deployment' to confirm the rollout and

updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'web-app-image:latest' Docker Hub repository

5. Monitor the Deployment: - Use 'kubectl get pods -l app=web-app' to monitor the pod updates during the rolling update process.

You will observe that one pod is terminated at a time, while one new pod with the updated image is created. Additionally, you'll see

that the number of unavailable pods never exceeds 2. 6. Check for Successful Update: - Once the deployment is complete, use

'kubectl describe deployment web-app-deployment' to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a

successful update.

NEW QUESTION # 108

You have a Deployment named 'bookstore-deployment' which deploys a Bookstore application, utilizing a PostgreSQL database.

The deployment has 3 replicas. The database server is managed externally. The application is built with a feature to dynamically

resize its replica count based on the load. You need to implement a strategy to automatically adjust the replica count to between 2

and 5, based on the CPU utilization of the pods. This should happen without manual intervention.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Horizontal Pod Autoscaler (HPA):

- use the 'kubectl create hpa' command to create an HPA named 'bookstore-hpa'
- Set the 'minReplicas' to 2 and 'maxReplicas' to 5, defining the desired range of replicas.
- Set the 'targetCPUUtilizationPercentage' to 70, meaning the replica count will adjust when the average CPU utilization of the pods crosses 70%.
- Specify the selector to match the 'bookstore-deployment' pods.

2. Apply the HPA: - Run 'kubectl apply -f bookstore-hpa.yaml' to create the HPA. 3. Verify the HPA: - Check the status of the HPA using 'kubectl get hpa bookstore-hpa' 4. Observe Replica Adjustment: - Increase the load on the bookstore application to trigger the HPA scaling. - Monitor the replica count of the bookstore-deployment using 'kubectl get deployments bookstore-deployment'. You will observe the replica count automatically adjusting based on the CPU utilization- 5. Customize Scaling Parameters: - You can customize the 'targetCPUUtilizationPercentage', 'minReplicas', and 'maxReplicas' in the HPA definition based on the application requirements and desired behavior.

NEW QUESTION # 109

You are developing a service that uses a custom configuration file called 'service.properties'. You want to use ConfigMaps to store and manage this file in a secure and efficient manner. The 'service.properties' file contains sensitive information such as database credentials and API keys.

How would you create a ConfigMap that securely stores the 'service.properties' file, ensuring that the file is accessible only to the service's container?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Secret for Sensitive Data:

- Create a Secret
- Encode the 'service.properties' file: `bash echo "your-database-username=your-database-username" > service.properties echo "your-database-password=your-database-password" >> service.properties echo "Your-api-key=your-api-key" >> service.properties base64 -w 0 service.properties` - Replace with the output from the base64 command. 2. Create the ConfigMap for the File:

3. Apply the Secret and ConfigMap: `bash kubectl apply -f service-secrets.yaml kubectl apply -f service-config.yaml` 4. Update the Deployment to use the ConfigMap and Secret

- Apply the updated Deployment: `bash kubectl apply -f my-service-deployment.yaml` 6. Access the File in the Container. - Mount the ConfigMap and Secret: - The ConfigMap mounts the 'service.properties' file as a placeholder. - The Secret mounts the actual 'service.properties' file securely. - Access the File: - The container should access the 'service.properties' file from '/var/secrets/service/service.properties' This approach uses a Secret to store sensitive data and a ConfigMap to mount the file securely within the container. The container will have access to the 'service.properties' file, but the actual data is stored in the Secret, ensuring its confidentiality'.

NEW QUESTION # 110

You have a Kubernetes application that uses a Deployment named 'web-app' to deploy multiple replicas of a web server pod. This web server application needs to be accessible through a public IP address. You are tasked with implementing a service that allows users to access the application from outside the cluster. However, the service should be exposed via a specific port number (8080), regardless of the port that the web server listens on inside the pods.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create the Service YAMI:-

- Define the service type as 'LoadBalancer' to expose it via a public IP

- Set the 'targetPort' to the port that the web server listens on inside the pods (let's assume it's 8080)-
 - Set the 'port' to 8080, which will be the port used to access the service from outside the cluster.
2. Apply the Service: - Use 'kubectl apply -f web-app-service.yaml' to create the service- 3. Get the External IP: - Once the service is created, use 'kubectl get services web-app-services' to get the external IP address. This will be assigned by the cloud provider and will be available for users to access the application. 4. Test the Service: - Access the application using the external IP address and port 8080. For example, if the external IP is '123.45.67.89', you would access the application through 'http://123.45.67.89:8080',

NEW QUESTION # 111

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