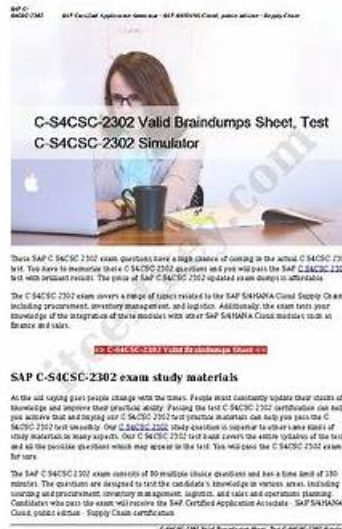


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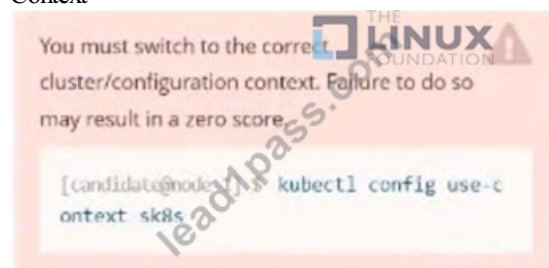
Linux Foundation Certified Kubernetes Application Developer (CKAD) exam is a certification program that is designed to test the skills and knowledge of developers who work with Kubernetes. It is an online, performance-based exam that evaluates a candidate's ability to design and build containerized applications that run on Kubernetes. CKAD Exam is designed to be challenging, but it is also an excellent way for developers to showcase their skills and knowledge in the Kubernetes ecosystem.

Linux Foundation Certified Kubernetes Application Developer (CKAD) Exam is a certification program designed to test and validate the skills of individuals in the field of Kubernetes application development. It is an online, proctored exam that requires candidates to demonstrate their knowledge and ability to design, build, configure, and expose cloud native applications for Kubernetes.

Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q18-Q23):

NEW QUESTION # 18

Context



Task:

The pod for the Deployment named nosql in the craytish namespace fails to start because its container runs out of resources. Update the nosql Deployment so that the Pod:

- 1) Request 160M of memory for its Container
- 2) Limits the memory to half the maximum memory constraint set for the crayfah name space.



Answer:

Explanation:

Solution:

□

```
File Edit View Terminal Tabs Help
---
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nosql
  namespace: crayfish
  labels:
    app.kubernetes.io/name: nosql
    app.kubernetes.io/component: backend
spec:
  selector:
    matchLabels:
      app.kubernetes.io/name: nosql
      app.kubernetes.io/component: backend
  replicas: 1
  template:
    metadata:
      labels:
        app.kubernetes.io/name: nosql
        app.kubernetes.io/component: backend
    spec:
      containers:
        - name: mongo
          image: mongo:4.2
          args:
            - --bind_ip
            - 0.0.0.0
          ports:
            - containerPort: 27017
---
-- INSERT --
12,1 All
```

```
File Edit View Terminal Tabs Help
- name: mongo
  image: mongo:4.2
  args:
    - --bind_ip
    - 0.0.0.0
  ports:
    - containerPort: 27017
  resources:
    requests:
      memory: "160Mi"
    limits:
      memory: "320Mi"
:~
```

NEW QUESTION # 19

You are deploying a new application named 'ecommerce-app' that requires 10 replicas. You want to implement a rolling update strategy that ensures only two pods are unavailable at any given time, while also allowing for the creation of three new pods simultaneously.

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Update the Deployment YAMLI

- Update the 'replicas' to 10.

- Define 'maxUnavailable: 2' and 'maxSurge: 3' in the 'strategy.rollingUpdate' section.

- Configure a 'strategy-type' to 'RollingUpdate' to trigger a rolling update when the deployment is updated.
 - Add a 'spec.template.spec.imagePullPolicy: Always' to ensure that the new image is pulled even if it exists in the pod's local cache.
2. Create the Deployment - Apply the updated YAML file using 'kubectl apply -f ecommerce-app-deployment.yaml' 3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments ecommerce-app-deployment' to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'example/commerce-app:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=ecommerce-apps' to monitor the pod updates during the rolling update process. You will observe that two pods are terminated at a time, while three new pods with the updated image are created. 6. Check for Successful Update: - Once the deployment is complete, use 'kubectl describe deployment ecommerce-app-deployment' to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a successful update.

NEW QUESTION # 20

Exhibit:

Context

You sometimes need to observe a pod's logs, and write those logs to a file for further analysis.

Task

Please complete the following:

* Deploy the counter pod to the cluster using the provided YAMLspec file at /opt/KDOB00201/counter.yaml

* Retrieve all currently available application logs from the running pod and store them in the file /opt/KDOB00201/log_Output.txt, which has already been created

- A. Solution:

```
student@node-1:~$ kubectl create -f /opt/KDOB00201/counter.yaml
pod/counter created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
counter       1/1     Running   0           10s
liveness-http 1/1     Running   0           6h45m
nginx-101     1/1     Running   0           6h46m
nginx-configmap 1/1     Running   0           107s
nginx-secret  1/1     Running   0           7m21s
poller        1/1     Running   0           6h46m
student@node-1:~$ kubectl logs counter
1: 2b305101817ac25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828fbc5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaaf6c242aac4
10: bfcc9a894a0604fc4b814b37d0a200a4
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$
```

- B. Solution:

```
student@node-1:~$ kubectl create -f /opt/KDOB00201/counter.yaml
pod/counter created
student@node-1:~$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
counter       1/1     Running   0           10s
liveness-http 1/1     Running   0           6h45m
nginx-101     1/1     Running   0           6h46m
nginx-configmap 1/1     Running   0           107s
nginx-secret  1/1     Running   0           7m21s
poller        1/1     Running   0           6h46m
student@node-1:~$ kubectl logs counter
1: 2b305101817ac25ca60ae46510fb6d11
2: 3648cf2eae95ab680dba8f195f891af4
3: 65c8bbd4dbf70bf81f2a0984a3a44ede
4: 40d3a9c8e46f5533bb4828fbc5c8d038
5: 390442d2530a90c3602901e3fe999ac8
6: b71d95187417e139effb33af77681040
7: 66a8e55a6491e756d2d0549ad6ab90a7
8: ff2b3d583b64125d2f9129c443bb37ff
9: b6c6a12b6e77944ed8baaaf6c242aac4
10: bfcc9a894a0604fc4b814b37d0a200a4
student@node-1:~$ kubectl logs counter > /opt/KDOB00201/log_output.txt
student@node-1:~$
```

Answer: B

NEW QUESTION # 21

Refer to Exhibit.

Context

You are asked to prepare a Canary deployment for testing a new application release.

Task:

A Service named krill-Service in the goshawk namespace points to 5 pod created by the Deployment named current-krill-deployment

1) Create an identical Deployment named canary-kill-deployment, in the same namespace.

2) Modify the Deployment so that:

-A maximum number of 10 pods run in the goshawk namespace.

-40% of the krill-service 's traffic goes to the canary-krill-deployment pod(s)

Answer:

Explanation:

Solution:

□

NEW QUESTION # 22

You're building a containerized application that needs access to a database running outside of the Kubernetes cluster You need to implement a service account With specific permissions to access the external database using an API key.

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 YAML file named 'database-service-account.yaml' with the following contents:

2. Create a Secret for the API Key: - Create a secret YAML file named 'database-api-key.yaml' with the following contents:

3. Create a Role and RoleBinding: - Create a Role YAML file named 'database-role.yaml' with the following contents:

4. Create a RoleBinding YAML: - Create a RoleBinding YAML file named 'database-rolebinding.yaml' with the following contents:

5. Apply the YAML Files: - Apply the created YAML files using 'kubectl apply -f database-service-account.yaml', 'kubectl apply -f database-api-key.yaml', 'kubectl apply -f database-role.yaml', and 'kubectl apply -f database-rolebinding.yaml' 6. Update your Deployment: - Update your application deployment to use the 'database-service-account' and mount the secret containing the API key.

7. Access the External Database: - Your application container should now be able to access the external database using the API key provided in the secret.

NEW QUESTION # 23

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