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The CKAD certification exam is a rigorous test that evaluates the candidate's ability to work with Kubernetes to deploy and manage containerized applications. Candidates are expected to have a good understanding of Kubernetes concepts and be able to use Kubernetes to solve real-world problems. CKAD exam consists of a series of performance-based tasks that require the candidate to complete various Kubernetes-related challenges, such as deploying a multi-container application, configuring a Kubernetes cluster, creating and deploying a service, and troubleshooting a Kubernetes cluster. CKAD Exam is proctored, and candidates are required to demonstrate their skills in a real-world environment. Upon completion of the exam, candidates receive a CKAD certification, which is recognized by organizations worldwide as a symbol of expertise in Kubernetes application development.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48
You are running a web application on Kubernetes, and you need to schedule a daily backup of your application's dat a. The backup process involves running a script that archives the database and uploads it to a remote storage service. Explain how you would implement this using a CronJ0b in Kubernetes. Provide a sample YAML configuration for the Cronjob.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Container Image:
- Create a Dockerfile that packages the backup script and any necessary dependencies into a container image-
- Build tne image and push it to a container registry (e.g., Docker Hub).
dockefflle
FROM ubuntu:latest
Install necessary packages
RUN apt-get update && apt-get install -y zip
Copy the backup script to the container
COPY backup.sh 'backup.sh
Set entrypoint to the backup script
ENTRYPOINT ["/backup.sh"]
2. Create the CronJob YAML:
- Define the 'cronJob' resource in a YAML file. Specify the schedule, the container image, and the command to run.

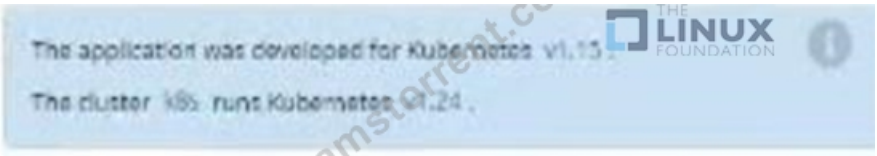
```
apiVersion: batch/v1
kind: CronJob
metadata:
  name: daily-backup
spec:
  schedule: "0 0   "  # Run at midnight every day
  jobTemplate:
    spec:
      template:
        spec:
          containers:
          - name: backup-container
            image: your-registry.com/your-username/backup-image:latest
            command: ["/backup.sh"]
      backoffLimit: 4
      parallelism: 1
```


3. Apply the CronJob: - Apply the YAML file to your Kubernetes cluster using 'kubectl apply -f cronjob.yamr 4. Verification: - Use 'kubectl get cronjobs' to check if the CronJob was successfully created- - Check the Kubernetes logs for the CronJob to ensure it's running as expected.

NEW QUESTION # 49

Task:

1) Fix any API depreciation issues in the manifest file -/credible-mite/www.yaml so that this application can be deployed on cluster K8s.



2) Deploy the application specified in the updated manifest file -/credible-mite/www.yaml in namespace cobra See the solution below.

Answer:

Explanation:

Explanation

Solution:

Text Description automatically generated

Text Description automatically generated

```
eployment.apps/expose created
andidate@node-1:~$ kubectl get pods -n ckad00014
AME                      READY   STATUS              RESTARTS   AGE
xpose-85dd99d4d9-25675   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-4fnct   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-fld7j   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-tt6rm   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-vjd8b   0/1     ContainerCreating   0          6s
xpose-85dd99d4d9-vtzpq   0/1     ContainerCreating   0          6s
andidate@node-1:~$ kubectl  get deploy -n ckad00014
AME     READY   UP-TO-DATE   AVAILABLE   AGE
xpose   6/6     6            6           15s
andidate@node-1:~$ kubectl config use-context k8s
witched to context "k8s".
andidate@node-1:~$ vim ~/credible-mite/www.yaml
andidate@node-1:~$ vim ~/credible-mite/www.yaml
andidate@node-1:~$ kubectl  apply  -f ~/credible-mite/www.yaml
eployment.apps/www-deployment created
andidate@node-1:~$ kubectl get pods -n cobra
AME                              READY   STATUS              RESTARTS   AGE
ww-deployment-d899c6b49-d6ccg   1/1     Running             0          6s
ww-deployment-d899c6b49-f796l   0/1     ContainerCreating   0          6s
ww-deployment-d899c6b49-ztfcw   0/1     ContainerCreating   0          6s
andidate@node-1:~$ kubectl get deploy -n cobra
AME            READY   UP-TO-DATE   AVAILABLE   AGE
ww-deployment   3/3     3            3           11s
andidate@node-1:~$ kubectl get pods -n cobra
AME                              READY   STATUS    RESTARTS   AGE
ww-deployment-d899c6b49-d6ccg   1/1     Running   0          14s
ww-deployment-d899c6b49-f796l   1/1     Running   0          14s
ww-deployment-d899c6b49-ztfcw   1/1     Running   0          14s
andidate@node-1:~$
```

NEW QUESTION # 50
You are deploying a microservice application that requires secure access to an external database. The database credentials are stored as environment variables Within the application container. You want to create a Kubernetes secret that securely stores these credentials and can be mounted as a file in the container.

Answer:

Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Create a Kubernetes Secret:
- Create a YAML file, for example, 'database-secret.yamr , with the following content:

```
apiVersion: v1
kind: Secret
metadata:
  name: database-secret
type: Opaque
data:
  DATABASE_USER:
  DATABASE_PASSWORD:
  DATABASE_HOST:
  DATABASE_PORT:
```

- Replace ". ". ". and with the actual values, Base64 encoded. You can use the 'base64' command to encode the values: bash echo "your _ username" | base64 echo 'Your_password" | base64 echo "your _ host" | base64 echo "your _ port" | base64 2. Apply the Secret: - Apply the secret to your Kubernetes cluster: bash kubectl apply -f database-secret.yaml 3. Modify the Deployment: - Modify your Deployment YAML file to mount the secret as a file:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-microservice
spec:
  template:
    spec:
      containers:
      - name: my-microservice
        image: your-image:latest
        envFrom:
          - secretRef:
              name: database-secret
        volumeMounts:
          - name: database-secret-volume
            mountPath: /var/secrets/database
      volumes:
        - name: database-secret-volume
          secret:
            secretName: database-secret
```


4. Apply the Updated Deployment: - Apply the updated Deployment YAML file using: bash kubectl apply -f my-microservice-deployment.yaml 5. Accessing Credentials: - The application container can now access the environment variables from the secret using 'process-env-DATABASE USER , 'process.env.DATABASE_PASSWORD', etc. Additionally, the secret data is mounted as a file at '/var/secrets/database'.

NEW QUESTION # 51
You are tasked with deploying an application with a deployment named 'web-app' that requires a specific SecurityContext to run. The application should be able to access a specific hostPath volume mounted at '/data' and should be able to run as a non-root user with a specific UID. You need to define the Securitycontext in your Deployment configuration to ensure the application runs with the required privileges and access.

Answer:

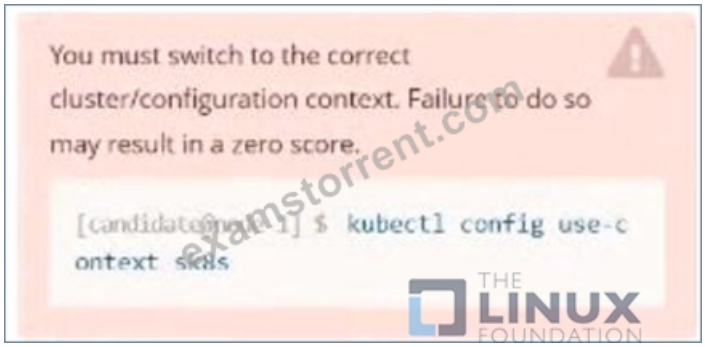
Explanation:
See the solution below with Step by Step Explanation.
Explanation:
Solution (Step by Step) :
1. Define the Securitycontext in the Deployment YAML:
- Create a 'securityContext' section within the 'spec-template.spec.containerss block for your application container
- Set the 'runAsLJser' field to the desired non-root IJID (e.g., 1000).
- Specify 'allowPrivilegeEscalatiom false' to prevent the container from escalating its privileges beyond the defined CJID.
- Add a 'hostPatm volume mount with 'readOnly: false' to allow the application to read and write to the mounted directory.
- Define a 'volume' with the 'hostPath' type, specifying the source path (e.g., './data') and the path within the container where it should be mounted.

```yaml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: web-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: web-app
  template:
    metadata:
      labels:
        app: web-app
    spec:
      containers:
      - name: web-app
        image: your-image:latest
        securityContext:
          runAsUser: 1000
          allowPrivilegeEscalation: false
        volumeMounts:
        - name: data-volume
          mountPath: /data
          readOnly: false
      volumes:
      - name: data-volume
        hostPath:
          path: /data
```


2. Create the Deployment: - Apply the Deployment YAML file using 'kubectl apply -f web-app-deployment.yamr 3. Verify the Deployment - Check the status of the Deployment using 'kubectl get deployments web-app'. You should see a running pod with the specified Securitycontext. - Use kubectl describe pod' to inspect the details of the pod and verify that the Securitycontext is applied correctly. 4. Test the Application: - Ensure that your application can access and modify the '/data' volume with the specified user ID (1000). - The 'securitycontext' allows you to define security settings for the application container, such as user ID and privilege escalation- - 'runAsIJsers specifies the IJID under which the container should run. - 'allowPrivilegeEscalation' controls whether the container can elevate its privileges beyond the specified IJID. - 'hostPath' volume mounts allow containers to access directories on the host system. - 'readOnly' determines whether the volume mount iS read-only or read-write. - Ensure your container image has the necessary permissions to access the hostPath volume within the specified UID.

NEW QUESTION # 52

Context

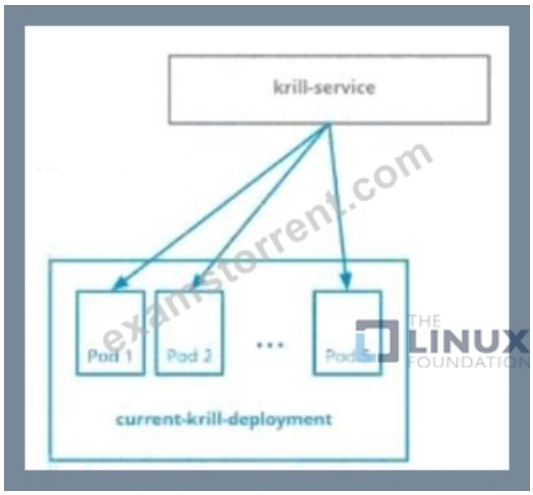


Context

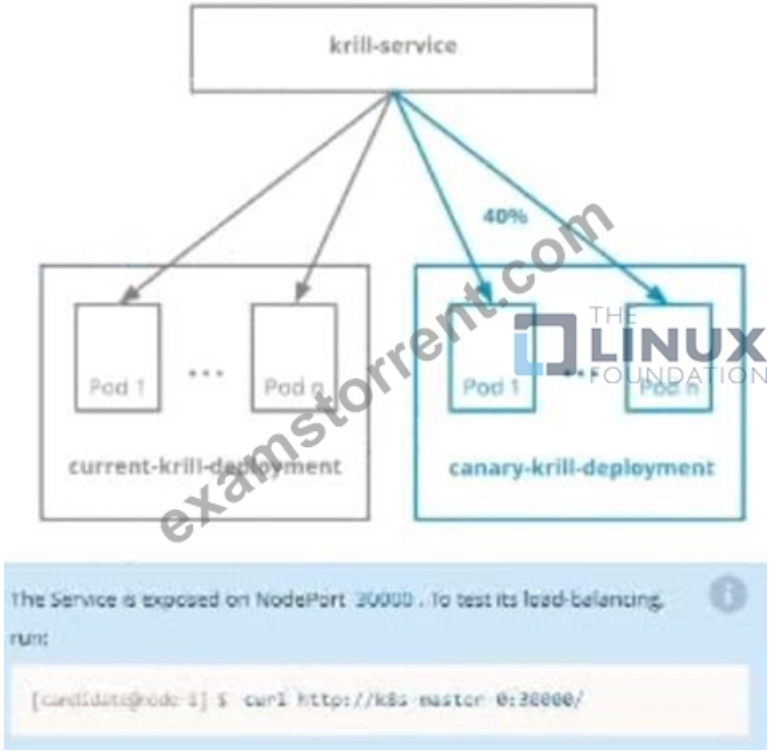
You are asked to prepare a Canary deployment for testing a new application release.

Task:

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

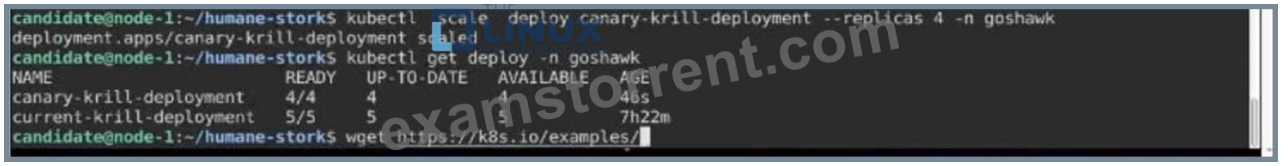


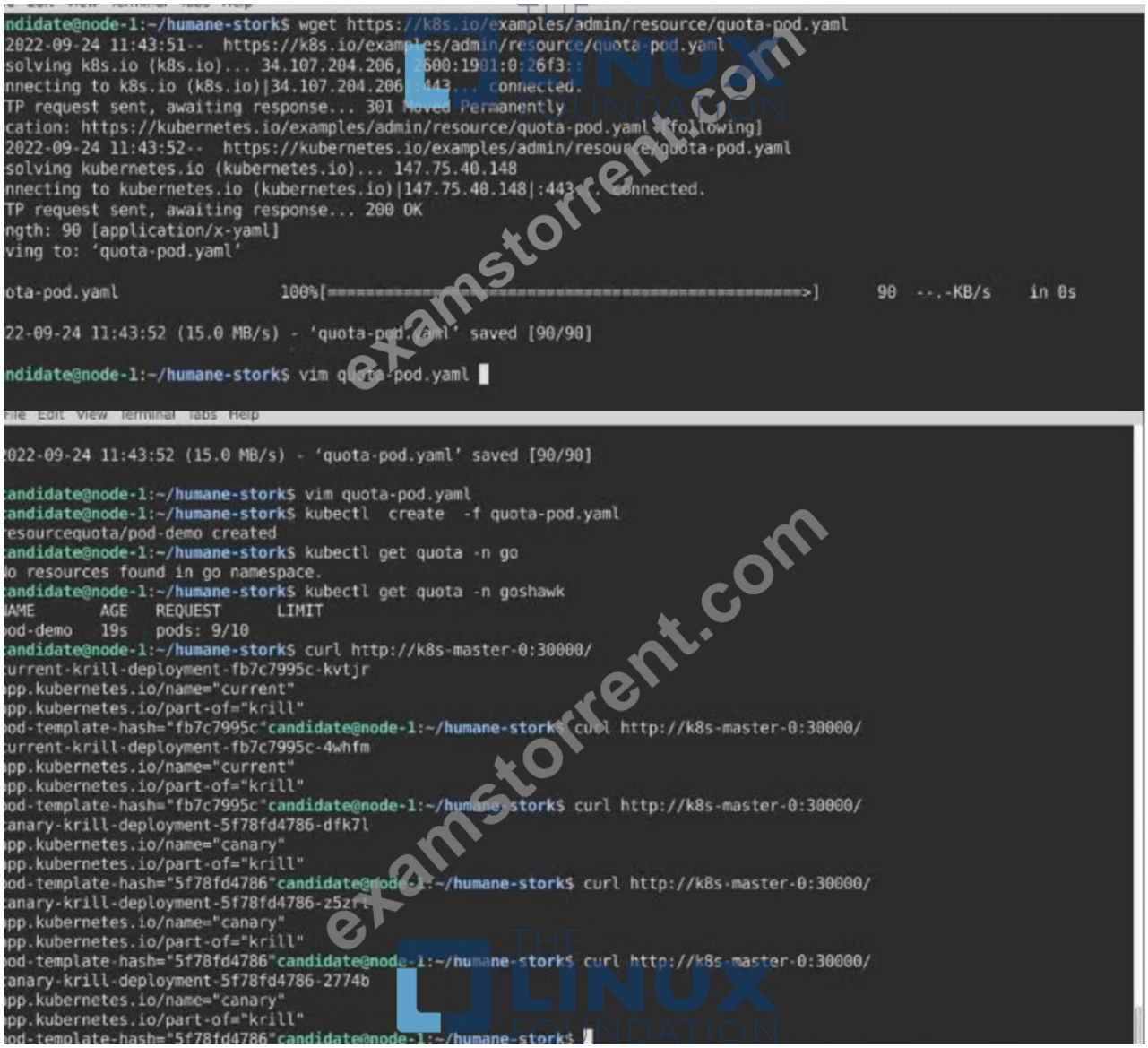
1) Create an identical Deployment named canary-kill-deployment, in the same namespace.
2) Modify the Deployment so that:
-A maximum number of 10 pods run in the goshawk namespace.
-40% of the krill-service 's traffic goes to the canary-krill-deployment pod(s)



Answer:

Explanation:
Solution:





NEW QUESTION # 53

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