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Linux Foundation CKAD Exam is ideal for developers who have experience with Kubernetes and want to demonstrate their mastery of the platform. It is also a great way for developers to gain a competitive edge in the job market, as more and more companies are adopting Kubernetes as their preferred platform for deploying and managing applications.

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Linux Foundation Certified Kubernetes Application Developer Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28



Context

Your application's namespace requires a specific service account to be used.

Task

Update the app-a deployment in the production namespace to run as the restrictedservice service account. The service account has already been created.

Answer:

Explanation:

See the solution below.

Explanation

Solution:



NEW QUESTION # 29

Context

Anytime a team needs to run a container on Kubernetes they will need to define a pod within which to run the container.

Task

Please complete the following:

* Create a YAML formatted pod manifest

/opt/KDPD00101/pod1.yml to create a pod named app1 that runs a container named app1cont using image lfcncf/arg-output with these command line arguments: -lines 56 -F

- * Create the pod with the kubectl command using the YAML file created in the previous step

- * When the pod is running display summary data about the pod in JSON format using the kubectl command and redirect the output to a file named /opt/KDPD00101/out1.json

- * All of the files you need to work with have been created, empty, for your convenience



Answer:

Explanation:

Solution:

```
student@node-1:~$ kubectl run app1 --image=lfcncf/arg-output --dry-run=client -o yaml > /opt/KDPD00101/pod1.yml
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
```



```

apiVersion: v1
kind: Pod
metadata:
  labels:
    run: appl
    name: appl
spec:
  containers:
  - image: lfccncf/arg-output
    name: appl
    args: ["--lines", "56", "--g"]

```

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All

pod/appl created

student@node-1:~\$ kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
appl	0/1	ContainerCreating	0	5s
counter	1/1	Running	0	4m44s
liveness-http	1/1	Running	0	6h50m
nginx-101	1/1	Running	0	6h51m
nginx-configmap	1/1	Running	0	6m21s
nginx-secret	1/1	Running	0	11m
poller	1/1	Running	0	6h51m

student@node-1:~\$ kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
appl	1/1	Running	0	26s
counter	1/1	Running	0	5m5s
liveness-http	1/1	Running	0	6h50m
nginx-101	1/1	Running	0	6h51m
nginx-configmap	1/1	Running	0	6m42s
nginx-secret	1/1	Running	0	12m
poller	1/1	Running	0	6h51m

student@node-1:~\$ kubectl delete pod appl

pod "appl" deleted

student@node-1:~\$ vim /opt/KDE00101/pod1.yml

```
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nginx-configmap 1/1 Running 0 6
nginx-secret 1/1 Running 0 1
poller 1/1 Running 0 6
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 26s
counter 1/1 Running 0 5m5s
liveness-http 1/1 Running 0 6h50m
nginx-101 1/1 Running 0 6h51m
nginx-configmap 1/1 Running 0 6m42s
nginx-secret 1/1 Running 0 12m
poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
student@node-1:~$ kubectl create -f /opt/KDPD00101/pod1.yml
pod/app1 created
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 20s
counter 1/1 Running 0 6m57s
liveness-http 1/1 Running 0 6h52m
nginx-101 1/1 Running 0 6h53m
nginx-configmap 1/1 Running 0 8m34s
nginx-secret 1/1 Running 0 14m
poller 1/1 Running 0 6h53m
student@node-1:~$ kubectl get pod app1 -o json >
```

```
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poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 26s
counter 1/1 Running 0 5m5s
liveness-http 1/1 Running 0 6h50m
nginx-101 1/1 Running 0 6h51m
nginx-configmap 1/1 Running 0 6m42s
nginx-secret 1/1 Running 0 12m
poller 1/1 Running 0 6h51m
student@node-1:~$ kubectl delete pod app1
pod "app1" deleted
student@node-1:~$ vim /opt/KDPD00101/pod1.yml
student@node-1:~$ kubectl create -f /opt/KDPD00101/pod1.yml
pod/app1 created
student@node-1:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
app1 1/1 Running 0 20s
counter 1/1 Running 0 6m57s
liveness-http 1/1 Running 0 6h52m
nginx-101 1/1 Running 0 6h53m
nginx-configmap 1/1 Running 0 8m34s
nginx-secret 1/1 Running 0 14m
poller 1/1 Running 0 6h53m
student@node-1:~$ kubectl get pod app1 -o json > /opt/KDPD00101/out1.json
student@node-1:~$
student@node-1:~$
```

NEW QUESTION # 30

You are building a system for scheduling daily backups of a critical database. The backup process involves running a script that connects to the database, extracts the data, and saves it to an S3 bucket. How would you utilize Kubernetes JobS to automate this backup process and ensure it runs every day at 2:00 AM?

Answer:

Explanation:

See the solution below with Step by Step Explanation.

Explanation:

Solution (Step by Step) :

1. Create a Job YAML file.

```
apiVersion: batch/v1
kind: Job
metadata:
  name: daily-database-backup
spec:
  template:
    spec:
      containers:
      - name: backup-container
        image: your-backup-script-image:latest
        command: ["/bin/sh", "-c", "your-backup-script.sh"]
        env:
        - name: AWS_ACCESS_KEY_ID
          valueFrom:
            secretKeyRef:
              name: aws-secret
              key: accessKey
        - name: AWS_SECRET_ACCESS_KEY
          valueFrom:
            secretKeyRef:
              name: aws-secret
              key: secretKey
      restartPolicy: Never
```

- Replace 'your-backup-script-image:latest' With the actual image name of your backup script. - Replace 'your-backup-script.sh' with the actual name Of your backup script. - Replace 'aws-secret' with the name of the Kubernetes secret holding your AWS credentials (see step 2). - 'restartPolicy: Never' ensures the job runs only once. 2. Create a Secret for AWS Credentials:

```
apiVersion: v1
kind: Secret
metadata:
  name: aws-secret
type: Opaque
data:
  accessKey:
  secretKey:
```

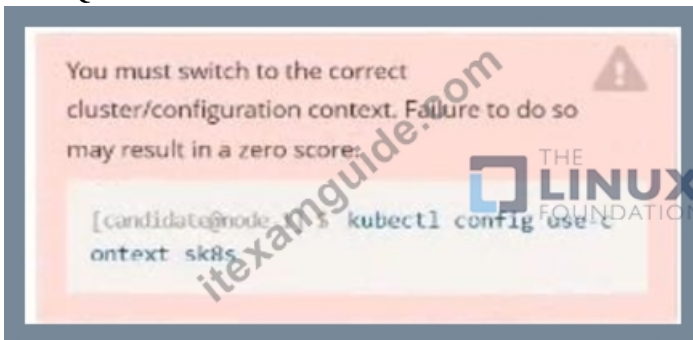
- Replace "and" With your actual AWS credentials. 3. Create a CronJob YAML file:

```
apiVersion: batch/v1
kind: CronJob
metadata:
  name: daily-backup-cron
spec:
  schedule: "0 2 * * *" # Run at 2:00 AM every day
  jobTemplate:
    spec:
      template:
        spec:
          containers:
          - name: backup-container
            image: your-backup-script-image:latest
            command: ["/bin/sh", "-c", "your-backup-script.sh"]
            env:
            - name: AWS_ACCESS_KEY_ID
              valueFrom:
                secretKeyRef:
                  name: aws-secret
                  key: accessKey
            - name: AWS_SECRET_ACCESS_KEY
              valueFrom:
                secretKeyRef:
                  name: aws-secret
                  key: secretKey
          restartPolicy: Never
```

- Adjust the 'schedule' to your desired daily execution time. - Ensure the 'jobTemplate' matches the Job YAML definition. 4. Apply

the YAML files: - Use 'kubectl apply -f job.yaml' and 'kubectl apply -f cronjob.yaml' to create the Job and CronJob on your cluster
5. Verify the CronJob: - Use 'kubectl get cronjobs' to check the status of the CronJob- - You should see the CronJob running and triggering the Job at the specified time.

NEW QUESTION # 31



Task:

- 1- Update the Propertunel scaling configuration of the Deployment web1 in the ckad00015 namespace setting maxSurge to 2 and maxUnavailable to 59
- 2- Update the web1 Deployment to use version tag 1.13.7 for the lfcncf/nginx container image.
- 3- Perform a rollback of the web1 Deployment to its previous version

Answer:

Explanation:

See the solution below.

Explanation

Solution:

```
candidate@node-1:~$ kubectl config use-context k8s
Switched to context "k8s".
candidate@node-1:~$ kubectl edit deploy web1 -n ckad00015
```

Text Description automatically generated

```
  app: nginx
strategy:
  rollingUpdate:
    maxSurge: 2%
    maxUnavailable: 5%
  type: RollingUpdate
template:
  metadata:
    creationTimestamp: null
    labels:
      app: nginx
  spec:
    containers:
      - image: lfcncf/nginx:1.13.7
        imagePullPolicy: IfNotPresent
        name: nginx
        ports:
          - containerPort: 80
            protocol: TCP
        resources: {}
        terminationMessagePath: /dev/termination-log
        terminationMessagePolicy: File
    dnsPolicy: ClusterFirst
    restartPolicy: Always
    schedulerName: default-scheduler
    securityContext: {}
    terminationGracePeriodSeconds: 30
status:
  availableReplicas: 2
conditions:
  - lastTransitionTime: "2022-09-24T04:26:41Z"
```

```

switched to context "k8s".
student@node-1:~$ kubectl create secret generic app-secret -n default --from-literal=key3=value1
secret/app-secret created
student@node-1:~$ kubectl get secrets
NAME      TYPE      DATA      AGE
app-secret Opaque    1          4s
student@node-1:~$ kubectl run nginx-secret -n default --image=nginx:stable --dry-run=client -o yaml > sec.yaml
student@node-1:~$ vim sec.yaml
student@node-1:~$ kubectl create -f sec.yaml
nginx-secret created
student@node-1:~$ kubectl get pods
NAME      READY   STATUS    RESTARTS   AGE
nginx-secret 1/1     Running   0          7s
student@node-1:~$ kubectl config use-context k8s
switched to context "k8s".
student@node-1:~$ kubectl edit deploy web1 -n ckad00015
deployment.apps/web1 edited
student@node-1:~$ kubectl rollout status deploy web1 -n ckad00015
deployment "web1" successfully rolled out
student@node-1:~$ kubectl rollout undo deploy web1 -n ckad00015
deployment.apps/web1 rolled back
student@node-1:~$ kubectl rollout history deploy web1 -n ckad00015
deployment.apps/web1
REVISION  CHANGE-CAUSE
<none>
<none>
student@node-1:~$ kubectl get rs -n ckad00015
NAME          DESIRED   CURRENT   READY   AGE
rs1-56f98bcb79 0         0         0       63s
rs1-85775b6b79 2         2         2       6h53m
student@node-1:~$

```

NEW QUESTION # 32

Exhibit:



Context

Developers occasionally need to submit pods that run periodically.

Task

Follow the steps below to create a pod that will start at a predetermined time and which runs to completion only once each time it is started:

- * Create a YAML formatted Kubernetes manifest `/opt/KDPD00301/periodic.yaml` that runs the following shell command: `date` in a single busybox container. The command should run every minute and must complete within 22 seconds or be terminated by Kubernetes. The Cronjob name and container name should both be `hello`
- * Create the resource in the above manifest and verify that the job executes successfully at least once

- A. Solution:

```

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student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
,yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml

```

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```
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["/bin/sh", "-c", "date"]
          restartPolicy: Never
      schedule: '* * * * *'
      startingDeadlineSeconds: 22
      concurrencyPolicy: Allow
```

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All

- B. Solution:

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```
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
error: unable to match a printer suitable for the output format "yaml", allowed formats are: go-t
emplate,go-template-file,json,jsonpath,jsonpath-as-json,jsonpath-file,name,template,templatefile
,yaml
student@node-1:~$ kubectl create cronjob hello --image=busybox --schedule "* * * * *" --dry-run=
client -o yaml > /opt/KDPD00301/periodic.yaml
student@node-1:~$ vim /opt/KDPD00301/periodic.yaml
```

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```
apiVersion: batch/v1beta1
kind: CronJob
metadata:
  name: hello
spec:
  jobTemplate:
    metadata:
      name: hello
    spec:
      template:
        spec:
          containers:
            - image: busybox
              name: hello
              args: ["/bin/sh", "-c", "date"]
          restartPolicy: Never
      schedule: '* * * * *'
      startingDeadlineSeconds: 22
      concurrencyPolicy: Allow
```

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All

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