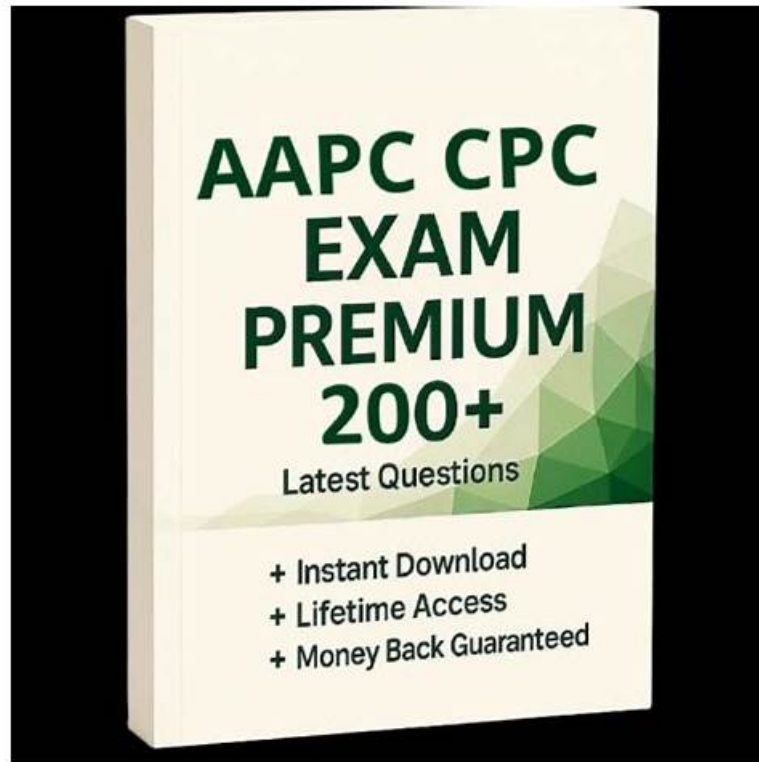


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Linux Foundation offers a comprehensive training program to prepare candidates for the CKA Exam. The training program includes online courses, hands-on labs, and practice exams. The program is designed to help candidates gain the necessary knowledge and skills to pass the exam and become certified Kubernetes administrators.

Challenge

* Create a Persistent Volume Claim that requests the Persistent Volume we had created above. The claim should request 2Gi. Ensure that the Persistent Volume Claim has the same storageClassName as the persistentVolume you had previously created.

kind: PersistentVolumeClaim

spec:

accessModes: ReadWriteMany

resources:

requests:

storage: 2Gi

storageClassName: shared

2. Save and create the pvc

njerry191@cloudshell:~(extreme-clone-2654111)\$ kubectl create -f app-data.yaml persistentvolumeclaim/app-data created

3. View the pvc

Image for post

```
njerry191@cloudshell:~(extreme-clone-2654111)$ kubectl get pvc
NAME          STATUS    VOLUME          CAPACITY   ACCESS MODES   STORAGECLASS
pv            Bound    pv              512m      RWX            shared
```

4. Let's see what has changed in the pv we had initially created.

Image for post

```
njerry191@cloudshell:~(extreme-clone-2654111)$ kubectl get pv
NAME          CAPACITY   ACCESS MODES   RECLAIM POLICY   STATUS    CLAIM          STORAGECLASS   REASON   AGE
pv            512m      RWX            Retain           Bound    default/pv     shared         16m
```

Our status has now changed from available to bound.

5. Create a new pod named myapp with image nginx that will be used to Mount the Persistent Volume Claim with the path /var/app/config.

Mounting a Claim

apiVersion: v1 kind: Pod metadata: creationTimestamp: null name: app-data spec: volumes:

name: config volumeClaimName: app-data containers: - image: nginx name:

app volumeMounts: - mountPath: "

NEW QUESTION # 31

You have a Deployment named 'my-app' with 5 replicas running an application container. You need to implement a rolling update strategy that allows for a maximum of 2 pods to be unavailable at any given time during the update process. Additionally, you want to ensure that the update process is triggered automatically whenever a new image is pushed to the Docker Hub repository 'my.org/my-app:latest'.

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: 2' and 'maxSurge: 0' 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.

- 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.

```

apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 5
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
        - name: my-app
          image: my-org/my-app:latest
          imagePullPolicy: Always
  strategy:
    type: RollingUpdate
    rollingUpdate:
      maxUnavailable: 2
      maxSurge: 0

```

2. Create the Deployment: - Apply the updated YAML file using 'kubectl apply -f my-app.yaml' 3. Verify the Deployment: - Check the status of the deployment using 'kubectl get deployments my-app' to confirm the rollout and updated replica count. 4. Trigger the Automatic Update: - Push a new image to the 'my.org/my-app:latest' Docker Hub repository. 5. Monitor the Deployment: - Use 'kubectl get pods -l app=my-app' to monitor the pod updates during the rolling update process. You will observe that up to 2 pods are terminated at a time, while new pods with the updated image are created. 6. Check for Successful Update: - Once the deployment is complete, use 'kubectl describe deployment my-app' to see that the 'updatedReplicas' field matches the 'replicas' field, indicating a successful update.

NEW QUESTION # 32

Get the deployment rollout status

Answer:

Explanation:

kubectl rollout status deploy webapp

NEW QUESTION # 33

Create a namespace called 'development' and a pod with image nginx called nginx on this namespace.

Answer:

Explanation:

kubectl create namespace development

kubectl run nginx --image=nginx --restart=Never -n development

NEW QUESTION # 34

List all the pods sorted by name

Answer:

Explanation:

kubectl get pods --sort-by=.metadata.name

NEW QUESTION # 35

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