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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.

>> New CKA Test Prep <<

2026 Linux Foundation CKA: The Best New Certified Kubernetes Administrator (CKA) Program Exam Test Prep

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Linux Foundation Certified Kubernetes Administrator (CKA) Program Exam Sample Questions (Q43-Q48):

NEW QUESTION # 43

Resume the rollout of the deployment

Answer:

Explanation:

kubectl rollout resume deploy webapp

NEW QUESTION # 44

Get list of all the pods showing name and namespace with a jsonpath expression.

Answer:

Explanation:

See the solution below.

Explanation

```
kubectl get pods -o=jsonpath="{.items[*]['metadata.name'], 'metadata.namespace'}"
```

NEW QUESTION # 45

Create a hostPath PersistentVolume named task-pv-volume with storage 10Gi, access modes ReadWriteOnce, storageClassName manual, and volume at /mnt/data and verify

- A.

```
vim task-pv-volume.yaml
apiVersion: v1
kind: PersistentVolume
metadata:
  name: task-pv-volume
labels:
  type: local
spec:
  storageClassName: ""
  capacity:
    storage: 5Gi
  accessModes:
    - ReadWriteOnce
  hostPath:
    path: "/mnt/data"
kubectl apply -f task-pv-volume.yaml
//Verify
kubectl get pv
NAME CAPACITY ACCESS
MODES RECLAIM POLICY STATUS CLAIM
STORAGECLASS REASON AGE
task-pv-volume 4Gi RWO
Retain Available
8s
```
- B.

```
vim task-pv-volume.yaml
apiVersion: v1
kind: PersistentVolume
metadata:
  name: task-pv-volume
labels:
  type: local
spec:
  storageClassName: ""
  capacity:
    storage: 5Gi
  accessModes:
    - ReadWriteOnce
  hostPath:
    path: "/mnt/data"
kubectl apply -f task-pv-volume.yaml
//Verify
```

```
kubectl get pv
NAME CAPACITY ACCESS
MODES RECLAIM POLICY STATUS CLAIM
STORAGECLASS REASON AGE
task-pv-volume 5Gi RWO
Retain Available
3s
```

Answer: B

NEW QUESTION # 46

Create a persistent volume with name `app-data`, of capacity `2Gi` and access mode `ReadWriteMany`. The type of volume is `hostPath` and its location is `/srv/app-data`.

Answer:

Explanation:
solution

Persistent Volume

A persistent volume is a piece of storage in a Kubernetes cluster. PersistentVolumes are a cluster-level resource like nodes, which don't belong to any namespace. It is provisioned by the administrator and has a particular file size. This way, a developer deploying their app on Kubernetes need not know the underlying infrastructure. When the developer needs a certain amount of persistent storage for their application, the system administrator configures the cluster so that they consume the PersistentVolume provisioned in an easy way.

Creating Persistent Volume

kind: PersistentVolume apiVersion: v1 metadata: name:app-data spec: capacity: # defines the capacity of PV we are creating storage: 2Gi #the amount of storage we are trying to claim accessModes: # defines the rights of the volume we are creating - ReadWriteMany hostPath: path: "/srv/app-data"# path to which we are creating the volume Challenge Create a Persistent Volume named app-data, with access mode ReadWriteMany, storage classname shared, 2Gi of storage capacity and the host path /srv/app-data.

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: app-data
spec:
  capacity:
    storage: 2Gi
  accessModes:
    - ReadWriteMany
  hostPath:
    path: /srv/app-data
  storageClassName: shared
```

"app-data.yaml" 12L, 194C

2. Save the file and create the persistent volume.

```
njerry191@cloudshell:~ (extreme-clone-265411)$ kubectl create -f pv.yaml
persistentvolume/pv created
```

3. View the persistent volume.

```
njerry191@cloudshell:~$ (extreme-clone-265411) $ kubectl get pvc
NAME          CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS    CLAIM          STORAGECLASS  REASON    AGE
app-data      2Gi       RWX           Retain          Available  app-data       shared                31s
```

Our persistent volume status is available meaning it is available and it has not been mounted yet. This status will change when we mount the persistentVolume to a persistentVolumeClaim.

PersistentVolumeClaim

In a real ecosystem, a system admin will create the PersistentVolume then a developer will create a PersistentVolumeClaim which will be referenced in a pod. A PersistentVolumeClaim is created by specifying the minimum size and the access mode they require from the persistentVolume.

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: PersistentVolume apiVersion: v1 metadata: name:app-data

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

```
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.

```
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:conigpvc

persistenVolumeClaim: claimName: app-data containers: - image: nginx name: app volumeMounts: - mountPath: "/srv/app-data " name: configpvc

NEW QUESTION # 47

Get list of all the pods showing name and namespace with a jsonpath expression.

Answer:

Explanation:

kubectl get pods -o=jsonpath="{.items[*]['metadata.name' , 'metadata.namespace']}"

NEW QUESTION # 48

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