





Q Search in our library...

Training Library > CKAD Practice Exam: State Persistence Solution Guide

CKAD Practice Exam: State Persistence Solution Guide

Intermediate () 20m | Bookmark

Check 1: Potential Solution

```
# Create a PersistentVolume named pv in the qq3 Namespace. The
PersistentVolume must be configured with the following settings:
storageClassName: host, 2Gi of storage capacity, Allow a single Node
read-write access, Use a hostPath of /mnt/data
cat << EOF | kubectl -n qq3 apply -f -
apiVersion: v1
kind: PersistentVolume
metadata:
  name: pv
spec:
  storageClassName: host
  capacity:
    storage: 2Gi
  accessModes:
    - ReadWriteOnce
  hostPath:
    path: "/mnt/data"
E0F
# The PersistentVolume must be claimed by a PersistentVolumeClaim named
pvc. The PersistentVolume must request 1Gi of storage capacity.
cat << EOF | kubectl -n qq3 apply -f -
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: pvc
spec:
  storageClassName: host
  accessModes:
    ReadWriteOnce
  resources:
    requests:
      storage: 1Gi
E0F
```















Q

```
- name: data
persistentVolumeClaim:
claimName: pvc
containers:
- name: persist
image: redis
volumeMounts:
- mountPath: "/data"
name: data
EOF
```

Commentary

The <u>Configure a Pod to Use a PersistentVolume for Storage</u> task in the documentation has an example with sample manifest files for each of the resources you need to create. You need to work with manifest files when dealing with volumes so finding good samples in the documentation to start with can save you a lot of time. In this task, the samples have all of the fields that are needed already included. If you needed to use fields that are not in the samples, you may need to consult the <u>Persistent Volumes</u> documentation for other types of PersistentVolumes, search the documentation, or use kubectl explain (e.g. kubectl explain persistentvolume.spec).

Content to review

Mastering Kubernetes Pod Configuration: Persistent Data - Using Persistent
 Data with Pods

Suggested documentation bookmark(s)

- Persistent Volumes
- Configure a Pod to Use a PersistentVolume for Storage

Check 2: Potential Solution

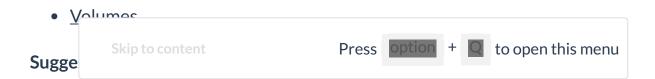


```
IIIC Laua La .
 labels:
   env: prod
 name: logger
 namespace: blah
spec:
 containers:
 - image: bash
   name: c1
   command: ["/usr/local/bin/bash", "-c"]
    - ifconfig > /var/log/blah/data;
      sleep 3600;
   volumeMounts:
   - mountPath: /var/log/blah
     name: vol1
 - image: bash
   name: c2
   command: ["/usr/local/bin/bash", "-c"]
    - sleep 3600;
   volumeMounts:
   - mountPath: /var/log/blah
     name: vol1
 volumes:
 - name: vol1
   hostPath:
     path: /tmp/vol
E0F
```

Commentary

The Configure a Pod to Use a Volume for Storage task in the documentation has an example with a sample manifest file demonstrating how to mount a volume into a container. You need to work with manifest files when dealing with volumes so finding good samples in the documentation to start with can save you a lot of time. In this task, the sample has all of the fields that are needed already included. If you needed to use fields that are not in the samples, you may need to consult the Volumes documentation, and/or use kubectl explain (e.g. kubectl explain pod.spec.volumes).

Content to review





















(i) Mark it or miss it!

Make sure to mark this content as completed; otherwise, it will not be displayed as such.

Mark as completed

Did you like this Resource?





Report an issue

About the author



Students Labs Courses Learning paths

2,626 83 9 18

Digital skills are built at the intersection of knowledge, experience, and context. The fundamental building blocks of the training templates in our Library meet teams wherever they are along the cloud maturity curve, imparting the knowledge and experience needed to take them to the next level. Our training platform is intuitive and scalable. Most importantly, all training is easily customizable, which enables organizations to provide context and guidance for teams of any size. Teams leveraging Cloud Academy hit the ground running.

Covered topics

Deployment Kubernetes Compute DevOps



Press



















Q

ADOUT CIOUG ACAGEMY

About QA

About Circus Street

COMMUNITY

Join Discord Channel

HELP

Help Center

Copyright © 2024 Cloud Academy Inc. All rights reserved.

Terms and Conditions

Privacy Policy

Sitemap

System Status

Manage your cookies