



Menu



Browse  
Library



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"
EOF
```

```
# 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
EOF
```



# Last  
must  
cat  
apiV

[Skip to content](#)

Press **option** + **Q** to open this menu



Menu



Browse  
Library



```
volumes:
```

```
- name: data
  persistentVolumeClaim:
    claimName: pvc
```

```
containers:
```

```
- name: persist
  image: redis
  volumeMounts:
    - mountPath: "/data"
      name: data
```

```
EOF
```

## Commentary

The [Configure a Pod to Use a PersistentVolume for Storage](#) 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 [Persistent Volumes](#) 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

# Up  
name  
the

Skip to content

Press **option** + **Q** to open this menu both



Menu



Browse  
Library



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

## 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

- [Volumes](#)

Suggest

[Skip to content](#)

Press **option** + **Q** to open this menu

[Menu](#)[Browse Library](#) ▼

### 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



**Cloud Academy**

Instructor

Students

**2,626**

Labs

**83**

Courses

**9**

Learning paths

**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

Compute

DevOps

Kubernetes



Skip to content

Press  +  to open this menu



Menu



Browse  
Library ▼



---

## About Cloud Academy

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](#)