

**\*\*CKA Lab Part 6 - Storage\*\***

**\*\*Lab 1 - Create a PV\*\***

Create a PV in your environment 1GB in size. Pick a type suitable for your lab:

- HostPath (for single nodes)
- NFS
- Azure Disk
- Etc

Ensure it is capable of being both read and written to.

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: pv-hostpath-1gb
spec:
  capacity:
    storage: 1Gi
  volumeMode: Filesystem
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Recycle
  storageClassName: slow
  hostPath:
    path: /tmp
```

**\*\*Lab 2 - Modify PV\*\***

Change the access mode of the PV in lab 1 to “ReadOnlyMany”

**Change:**

```
accessModes:
  - ReadWriteOnce
```

To:

```
accessModes:
  - ReadOnlyMany
```

**\*\*Lab 3 - Create a PVC\*\***

Create a claim to the persistent volume you created in Lab 1, for 512MB. Choose an applicable access mode based on the state of the persistent volume

```
kind: PersistentVolumeClaim
apiVersion: v1
metadata:
  name: myclaim
spec:
  accessModes:
    - ReadOnlyMany
  volumeMode: Filesystem
  resources:
    requests:
      storage: 512Mi
  storageClassName: slow
```

**\*\*Lab 4 - Consume storage\*\***

Configure a pod to leverage the PVC and mount it to /mnt/readonly

```
apiVersion: v1
kind: Pod
metadata:
  name: pod-with-ro-mount
```

```
spec:
  volumes:
    - name: readonlyvolume
      persistentVolumeClaim:
        claimName: myclaim
  containers:
    - name: busybox
      image: busybox
      args:
        - sleep
        - "1000000"
      volumeMounts:
        - mountPath: "/mnt/readonly"
          name: readonlyvolume
```