

VOLUMES AND DATA

# Volumes and Data

# Persistent Volume Claim

With a persistent volume created in your cluster, you can then write a manifest for a claim, and use that claim in your pod definition. In the Pod, the volume uses the **persistentVolumeClaim**.

```
kind: PersistentVolumeClaim
apiVersion: v1
metadata:
  name: myclaim
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 8Gi
```

In the Pod:

```
spec:
  containers:
  ....
  volumes:
    - name: test-volume
      persistentVolumeClaim:
        claimName: myclaim
```

The Pod configuration could also be as complex as this:

```
  volumeMounts:
    - name: Cephpd
      mountPath: /data/rbd
  volumes:
    - name: rbdpd
      rbd:
        monitors:
          - '10.19.14.22:6789'
          - '10.19.14.23:6789'
          - '10.19.14.24:6789'
        pool: k8s
        image: client
        fsType: ext4
        readOnly: true
        user: admin
        keyring: /etc/ceph/keyring
```

