Task –

Create a new PersistentVolumeClaim: ✑ Name: pv-volume ✑ Class: csi-hostpath-sc ✑ Capacity: 10Mi

Create a new Pod which mounts the PersistentVolumeClaim as a volume: ✑ Name: web-server ✑

Image: nginx ✑

Mount path: /usr/share/nginx/html

Con+gure the new Pod to have ReadWriteOnce access on the volume.

Finally, using kubectl edit or kubectl patch expand the PersistentVolumeClaim to a capacity of 70Mi and record that change

vim pvc.yaml

Paste the below content in the file

kind: PersistentVolumeClaim

apiVersion: v1

metadata:

name: pv-volume

spec:

storageClassName: csi-hostpath-sc

accessModes:

- ReadWriteOnce

resources:

requests:

storage: 10Mi

kubectl create -f pvc.yaml

kubectl get pvc

vim podvolume.yaml

kind: Pod

apiVersion: v1

metadata:

name: web-server

spec:

volumes:

- name: task-pv-storage

persistentVolumeClaim:

claimName: pv-volume

containers:

- name: web-server

image: nginx

ports:

- containerPort: 80

volumeMounts:

- mountPath: "/usr/share/nginx/html"

name: task-pv-storage

kubectl create -f podvolume.yaml

kubectl get pods