



Creating Storage Classes



CREATING & VALIDATING STORAGE CLASS - GCE

```
kubectl get sc
```

NAME	PROVISIONER	RECLAIMPOLICY	VOLUMEBINDINGMODE	ALLOWVOLUMEEXPANSION	AGE
standard (default)	kubernetes.io/gce-pd	Delete	Immediate	true	7h44m

```
# sc-ssd.yaml
apiVersion: storage.k8s.io/v1
kind: StorageClass
metadata:
  name: gold
provisioner: kubernetes.io/gce-pd
parameters:
  type: pd-ssd
  fsType: ext4
reclaimPolicy: Retain
allowVolumeExpansion: true
volumeBindingMode: Immediate
```

```
Kubectl get sc
```

NAME	PROVISIONER	RECLAIMPOLICY	VOLUMEBINDINGMODE	ALLOWVOLUMEEXPANSION	AGE
gold	kubernetes.io/gce-pd	Retain	Immediate	true	6s
standard (default)	kubernetes.io/gce-pd	Delete	Immediate	true	8h

USING STORAGE CLASS IN PVC

Gold (SSD)

```
# pvc-ssd.yaml

apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: my-ssd-vol
spec:
  storageClassName: gold
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 20Gi
```

Standard (default)

```
# pvc-default.yaml

apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: my-standard-vol
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 10Gi
```

```
kubectl get pvc
```

NAME	STATUS	VOLUME	CAPACITY	ACCESS MODES	STORAGECLASS	AGE
my-ssd-vol	Bound	pvc-55648443-0f08-406f-9388-2d3a4919df0f	20Gi	RWO	gold	2m2s
my-standard-vol	Bound	pvc-4aab9c62-bcba-4b6b-b10c-32755e11e1b7	10Gi	RWO	standard	115s

```
kubectl get pv
```

NAME	CAPACITY	ACCESS MODES	RECLAIM POLICY	STATUS	CLAIM	STORAGECLASS	REASON	AGE
pvc-4aab9c62-bcba-4b6b-b10c-32755e11e1b7	10Gi	RWO	Delete	Bound	default/my-standard-vol	standard		3m19s
pvc-55648443-0f08-406f-9388-2d3a4919df0f	20Gi	RWO	Retain	Bound	default/my-ssd-vol	gold		3m26s

Cleanup

```
kubectl delete pvc my-ssd-vol
```

```
persistentvolumeclaim "my-ssd-vol" deleted
```

```
kubectl delete pvc my-standard-vol
```

```
persistentvolumeclaim "my-standard-vol" deleted
```

```
kubectl get pvc
```

```
No resources found in default namespace.
```

```
kubectl get pv
```

NAME	CAPACITY	ACCESS MODES	RECLAIM POLICY	STATUS	CLAIM	STORAGECLASS	REASON	AGE
pvc-55648443-0f08-406f-9388-2d3a4919df0f	20Gi	RWO	Retain	Released	default/my-ssd-vol	gold		13m

```
kubectl delete pv pvc-55648443-0f08-406f-9388-2d3a4919df0f
```

```
persistentvolume "pvc-55648443-0f08-406f-9388-2d3a4919df0f" deleted
```