

StatefulSets:

```
ubuntu@k8s-master:~$ vi sc.yaml
ubuntu@k8s-master:~$ kubectl apply -f sc.yaml
storageclass.storage.k8s.io/ebs-sc created
ubuntu@k8s-master:~$ vi pvc.yaml
ubuntu@k8s-master:~$ kubectl apply -f pvc.yaml
persistentvolumeclaim/ebs-claim created
ubuntu@k8s-master:~$ kubectl get sc
NAME      PROVISIONER      RECLAIMPOLICY      VOLUMEBINDINGMODE      ALLOWVOLUMEEXPANSION      AGE
ebs-sc    ebs.csi.aws.com  Delete             WaitForFirstConsumer    false                      47s
ubuntu@k8s-master:~$ kubectl get pvc
NAME      STATUS      VOLUME      CAPACITY      ACCESS MODES      STORAGECLASS      VOLUMEATTRIBUTESCLASS      AGE
ebs-claim  Pending                                ebs-sc          <unset>          15s
ubuntu@k8s-master:~$ kubectl get pv
No resources found
ubuntu@k8s-master:~$ vi stateful.yaml
ubuntu@k8s-master:~$ kubectl apply -f stateful.yaml
statefulset.apps/postgres-db created
ubuntu@k8s-master:~$ kubectl get statefulsets
NAME                                READY      AGE
my-argo-cd-argocd-application-controller  1/1        22h
postgres-db                            0/3        17s
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          41s
postgres-db-1          0/1      Pending   0          13s
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          56s
postgres-db-1          0/1      Pending   0          28s
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          81s
postgres-db-1          0/1      Pending   0          53s
ubuntu@k8s-master:~$ kubectl get statefulsets
NAME                                READY      AGE
my-argo-cd-argocd-application-controller  1/1        22h
postgres-db                            1/3        114s
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          2m28s
postgres-db-1          0/1      Pending   0          2m
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          2m47s
postgres-db-1          0/1      Pending   0          2m19s
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          2m51s
postgres-db-1          0/1      Pending   0          2m23s
ubuntu@k8s-master:~$ kubectl get pods | grep -i postgres-db
postgres-db-0          1/1      Running    0          3m19s
postgres-db-1          0/1      Pending   0          2m51s
ubuntu@k8s-master:~$ kubectl describe pod postgres-db-1
Name:          postgres-db-1
Namespace:     default
```

```
ubuntu@k8s-master:~$ kubectl describe pod postgres-db-1
Name:         postgres-db-1
Namespace:    default
Priority:      0
Service Account: default
Node:         <none>
Labels:       app=postgres-db
              apps.kubernetes.io/pod-index=1
              controller-revision-hash=postgres-db-688875796b
              statefulset.kubernetes.io/pod-name=postgres-db-1
Annotations:  <none>
Status:       Pending
IP:           <none>
IPs:          <none>
Controlled By: StatefulSet/postgres-db
Containers:
  postgres-container:
    Image:      postgres:latest
    Port:       5432/TCP
    Host Port:  0/TCP
    Environment:
      POSTGRES_DB:      postgresdb
      POSTGRES_USER:    postgres
      POSTGRES_PASSWORD: postgres
      PGDATA:           /var/lib/postgresql/data/pgdata
    Mounts:
      /var/lib/postgresql/data from data-volume (rw)
      /var/run/secrets/kubernetes.io/serviceaccount from kube-api-access-rhq25 (ro)
Conditions:
  Type             Status
  PodScheduled     False
Volumes:
  data-volume:
    Type:      PersistentVolumeClaim (a reference to a PersistentVolumeClaim in the same namespace)
    ClaimName: data-volume-postgres-db-1
    ReadOnly:  false
  kube-api-access-rhq25:
    Type:      Projected (a volume that contains injected data from multiple sources)
    TokenExpirationSeconds: 3607
    ConfigMapName: kube-root-ca.crt
    ConfigMapOptional: <nil>
    DownwardAPI: true
QoS Class:       BestEffort
Node-Selectors:  <none>
Tolerations:     node.kubernetes.io/not-ready:NoExecute op=Exists for 300s
                 node.kubernetes.io/unreachable:NoExecute op=Exists for 300s
Events:
  Type    Reason          Age    From          Message
  ----    -
  Warning FailedScheduling 3m41s  default-scheduler  0/3 nodes are available: 1 node(s) had untolerated taint (key: value1), 1 node(s) had untolerated taint (node-role.kubernetes.io/control-plane: ), 1 node(s) had untolerated taint (node.kubernetes.io/disk-pressure: ). preemption: 0/3 nodes are available: 3 Preemption is not helpful for scheduling.
```

```
ubuntu@k8s-master:~$ kubectl get pods -o wide | grep -i postgres-db
postgres-db-0      1/1      Running    0      4m15s    10.44.0.21    k8s-worker1    <none>    <none>
postgres-db-1      0/1      Pending    0      3m47s    <none>        <none>        <none>    <none>
postgres-db-0      1/1      Running    0      4m28s    10.44.0.21    k8s-worker1    <none>    <none>
postgres-db-1      0/1      Pending    0      4m      <none>        <none>        <none>    <none>
postgres-db-0      1/1      Running    0      4m41s    10.44.0.21    k8s-worker1    <none>    <none>
postgres-db-1      0/1      Pending    0      4m13s    <none>        <none>        <none>    <none>
postgres-db-0      1/1      Running    0      5m44s    10.44.0.21    k8s-worker1    <none>    <none>
postgres-db-1      1/1      Running    0      5m16s    10.44.0.22    k8s-worker1    <none>    <none>
postgres-db-2      0/1      ContainerCreating 0      8s      <none>        k8s-worker1    <none>    <none>
postgres-db-0      1/1      Running    0      6m6s     10.44.0.21    k8s-worker1    <none>    <none>
postgres-db-1      1/1      Running    0      5m38s    10.44.0.22    k8s-worker1    <none>    <none>
postgres-db-2      1/1      Running    0      30s      10.44.0.23    k8s-worker1    <none>    <none>
```

DevOps & Cloud Master PrograWhatsAppVolumes | EC2 | ap-south-1kubernetes-training/k8-manifap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Volumes:GmailYouTubeMapsChat gptGoogleGitHubPierian-Da...All BookmarksawsSearch[Alt+S]Asia Pacific (Mumbai)Sirisha

EC2

Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Volumes (5) info

Last updated 1 minute ago

Actions

Create volume

Choose filter set

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	
<input type="checkbox"/>	-	vol-0256cc793cdb59d41	gp2	2 GiB	100	-	-	2025/04/17 17:35 GMT+5...	af
<input type="checkbox"/>	-	vol-05e2a3a6a7fc2c58e	gp2	2 GiB	100	-	-	2025/04/17 17:35 GMT+5...	af
<input type="checkbox"/>	-	vol-0ad9e32926550ba18	gp2	2 GiB	100	-	-	2025/04/17 17:40 GMT+5...	af
<input type="checkbox"/>	-	vol-04ba10de64037d0dd	gp3	8 GiB	3000	125	snap-00a5570...	2025/04/09 18:42 GMT+5...	af
<input type="checkbox"/>	-	vol-03f204a1c91dde5a0	gp3	8 GiB	3000	125	snap-00a5570...	2025/04/09 18:42 GMT+5...	af

Fault tolerance for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes

0 / 4

Last updated on Thu, Apr 17, 2025, 05:36:13 PM (GMT+05:30)

Data Lifecycle Manager default policy for EBS Snapshots status

No default policy set up | Create policy

CloudShellFeedback

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17:42 17-04-2025