

# PostgreSQL

## PostgreSQL

### PV

```
kind: PersistentVolume
apiVersion: v1
metadata:
  name: postgresql-pv-volume
  namespace: tomcat-apps
  labels:
    type: local
spec:
  storageClassName: manual
  capacity:
    storage: 20Gi
  accessModes:
    - ReadWriteOnce
  hostPath:
    path: "/data/tomcat/postgresql"
```

---

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: postgresql-pv-claim
  namespace: tomcat-apps
spec:
  storageClassName: manual
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 20Gi
```

### PostgreSQL DBMS

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: tomcat-postgresql
  namespace: tomcat-apps
```

```
spec:
  replicas: 1
  selector:
    matchLabels:
      app: products
      department: tomcat-postgresql
  template:
    metadata:
      labels:
        app: products
        department: tomcat-postgresql
    spec:
      containers:
        - name: postgresql
          image: postgres:11
          ports:
            - containerPort: 5432
          volumeMounts:
            - mountPath: "/var/lib/postgresql/data"
              name: postgresql-persistent-storage
              readOnly: false
          env:
            - name: POSTGRES_PASSWORD
              value: xxxxxxxxxxxx
      volumes:
        - name: postgresql-persistent-storage
          persistentVolumeClaim:
            claimName: postgresql-pv-claim
```

---

```
apiVersion: v1
kind: Service
metadata:
  name: tomcat-postgresql-service
  namespace: tomcat-apps
spec:
  type: LoadBalancer
  externalIPs:
    - 192.168.0.100
  selector:
    app: products
    department: tomcat-postgresql
  ports:
    - protocol: TCP
      port: 5432
      targetPort: 5432
```

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