```
To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
PS C:\Users\Admin> kubectl create ns gb4
namespace/gb4 created
PS C:\Users\Admin> kubectl create secret generic postgres-secret --from-literal=PASS=testpassword -n gb4
secret/postgres-secret created
PS C:\Users\Admin> kubectl get secret postgres-secret -n gb4
NAME              TYPE     DATA   AGE
postgres-secret   Opaque   1      14s
PS C:\Users\Admin> kubectl apply -f pv.yaml -n gb4
error: the path "pv.yaml" does not exist
PS C:\Users\Admin> kubectl apply -f pv.yaml -n gb4
persistentvolume/postgresql-volume created
PS C:\Users\Admin> kubectl apply -f pvc.yaml -n gb4
persistentvolumeclaim/postgres-pvc created
PS C:\Users\Admin> kubectl get pv -n gb4
NAME                CAPACITY   ACCESS MODES   RECLAIM POLICY   STATUS   CLAIM              STORAGECLASS   REASON   AGE
postgresql-volume   10Gi       RWO            Retain           Bound    gb4/postgres-pvc   manual                  2m24sPS C:\Users
\Admin> kubectl get pvc -n gb4
NAME           STATUS   VOLUME              CAPACITY   ACCESS MODES   STORAGECLASS   AGE
postgres-pvc   Bound    postgresql-volume   10Gi       RWO            manual         22s
PS C:\Users\Admin> kubectl apply -f deployment.yaml -n gb4
deployment.apps/postgres created
PS C:\Users\Admin> kubectl get pod -o wide -n gb4
NAME                        READY   STATUS              RESTARTS   AGE   IP       NODE
    NOMINATED NODE   READINESS GATES
postgres-5ff9fbc9d5-kwgd6   0/1     ContainerCreating   0          12s   <none>   kubernetes-cluster-2520-default-group-0   <none>
         <none>
PS C:\Users\Admin> kubectl get pod -o wide -n gb4
NAME                        READY   STATUS    RESTARTS   AGE   IP              NODE
 NOMINATED NODE   READINESS GATES
postgres-5ff9fbc9d5-kwgd6   1/1     Running   0          29s   10.100.205.64   kubernetes-cluster-2520-default-group-0   <none>
       <none>
PS C:\Users\Admin> kubectl run -t -i --rm --image postgres:10.13 test bash
If you don't see a command prompt, try pressing enter.
root@test:/# psql -h 10.100.205.64 -U testuser testdatabase
Password for user testuser:
psql: FATAL:  password authentication failed for user "testuser"
root@test:/# psql -h 10.100.205.64 -U testuser testdatabase
Password for user testuser:
psql (10.13 (Debian 10.13-1.pgdg90+1))
Type "help" for help.

testdatabase=# CREATE TABLE testtable (testcolumn VARCHAR (50) );
CREATE TABLE
testdatabase=# \dt
          List of relations
 Schema |   Name    | Type  |  Owner
--------+-----------+-------+----------
 public | testtable | table | testuser
(1 row)
```

```
PS C:\Users\Admin> kubectl delete po postgres-5ff9fbc9d5-kwgd6 -n gb4
pod "postgres-5ff9fbc9d5-kwgd6" deleted
```

```
PS C:\Users\Admin> kubectl get pod -o wide -n gb4
NAME                        READY   STATUS    RESTARTS   AGE   IP              NODE
 NOMINATED NODE   READINESS GATES
postgres-5ff9fbc9d5-b44f4   1/1     Running   0          11s   10.100.205.66   kubernetes-cluster-2520-default-group-0   <none>
       <none>
PS C:\Users\Admin> kubectl run -t -i --rm --image postgres:10.13 test bash
If you don't see a command prompt, try pressing enter.
root@test:/# psql -h 10.100.205.66 -U testuser testdatabase
Password for user testuser:
psql (10.13 (Debian 10.13-1.pgdg90+1))
Type "help" for help.

testdatabase=# \dt
          List of relations
 Schema |   Name    | Type  |  Owner
--------+-----------+-------+----------
 public | testtable | table | testuser
(1 row)

testdatabase=#
```