

Connect Postgres database from Postgres Client using core-dns's host name

To run postgres database from the default namespace,

\$ kubectl get all

```
NAME                                READY   STATUS    RESTARTS   AGE
pod/mongopod                        1/1     Running   2 (86m ago) 32h
pod/nginxpod                        1/1     Running   2 (86m ago) 32h
pod/nodepod                         1/1     Running   2 (86m ago) 32h
pod/postgres-7b9fb8d6c5-rp4qp      1/1     Running   0           44m

NAME                                TYPE                      CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
service/kubernetes                 ClusterIP           10.96.0.1       <none>            443/TCP          32h
service/postgres                    NodePort            10.100.142.20   <none>            5432:31413/TCP   5h45m

NAME                                READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/postgres            1/1     1             1           26h

NAME                                DESIRED   CURRENT   READY   AGE
replicaset.apps/postgres-7b9fb8d6c5 1         1         1       44m
```

\$ kubectl exec -it pod/postgres-7b9fb8d6c5-rp4qp -- psql -h localhost -U admin --password -p 5432 postgresdb

```
Password for user admin:
psql (10.1)
Type "help" for help.

postgresdb=# \l

          List of databases
- - - - -
 Name      | Owner   | Encoding | Collate | Ctype   | Access privileges
- - - - -
 internshp | admin   | UTF8     | en_US.utf8 | en_US.utf8 |
 postgres | postgres | UTF8     | en_US.utf8 | en_US.utf8 |
 postgresdb | postgres | UTF8     | en_US.utf8 | en_US.utf8 |
 template0 | postgres | UTF8     | en_US.utf8 | en_US.utf8 | =c/postgres +
           |          |          |          |          | postgres=CTc/postgres
 template1 | postgres | UTF8     | en_US.utf8 | en_US.utf8 | =c/postgres +
           |          |          |          |          | postgres=CTc/postgres
 testdb    | admin   | UTF8     | en_US.utf8 | en_US.utf8 |
(6 rows)
```

Now for **client-postgress** namespace,

\$ kubectl get all -n client-postgress

```
NAME                                READY   STATUS    RESTARTS   AGE
pod/postgres-649f7f45cb-qbp8d      1/1     Running   0           46m

NAME                                TYPE                      CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
service/postgres                    NodePort            10.105.137.243   <none>            5433:30544/TCP   76m

NAME                                READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/postgres            1/1     1             1           76m

NAME                                DESIRED   CURRENT   READY   AGE
replicaset.apps/postgres-649f7f45cb 1         1         1       46m
```

\$ kubectl exec -it pod/postgres-649f7f45cb-qbp8d -n client-postgress -- psql -h postgres.default -U admin --password -p 5432 postgresdb

Password for user admin:
psql (10.1)
Type "help" for help.

postgresdb=# \l

List of databases					
Name	Owner	Encoding	Collate	Ctype	Access privileges
internship	admin	UTF8	en_US.utf8	en_US.utf8	
postgres	postgres	UTF8	en_US.utf8	en_US.utf8	
postgresdb	postgres	UTF8	en_US.utf8	en_US.utf8	
template0	postgres	UTF8	en_US.utf8	en_US.utf8	=c/postgres +
					postgres=Ctc/postgres
template1	postgres	UTF8	en_US.utf8	en_US.utf8	=c/postgres +
					postgres=Ctc/postgres
testdb	admin	UTF8	en_US.utf8	en_US.utf8	

(6 rows)