

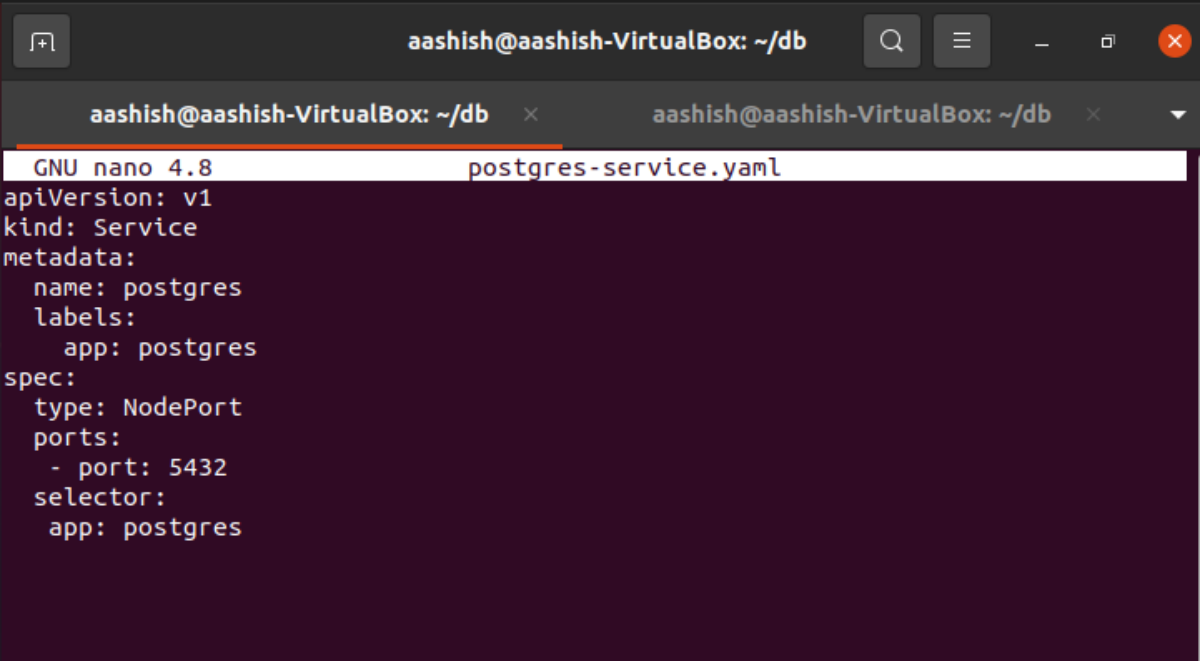
2.

Deploy Postgres Client in cluster(psql).

Answer:

To deploy Postgres Client, we create the YAML file to configure the PostgreSQL client/service named postgres-service.yaml

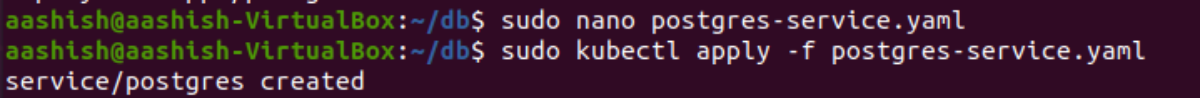
- **sudo nano postgres-service.yaml**



```
GNU nano 4.8 postgres-service.yaml
apiVersion: v1
kind: Service
metadata:
  name: postgres
  labels:
    app: postgres
spec:
  type: NodePort
  ports:
    - port: 5432
  selector:
    app: postgres
```

We save the file and exit. Then we apply the configuration as follows;

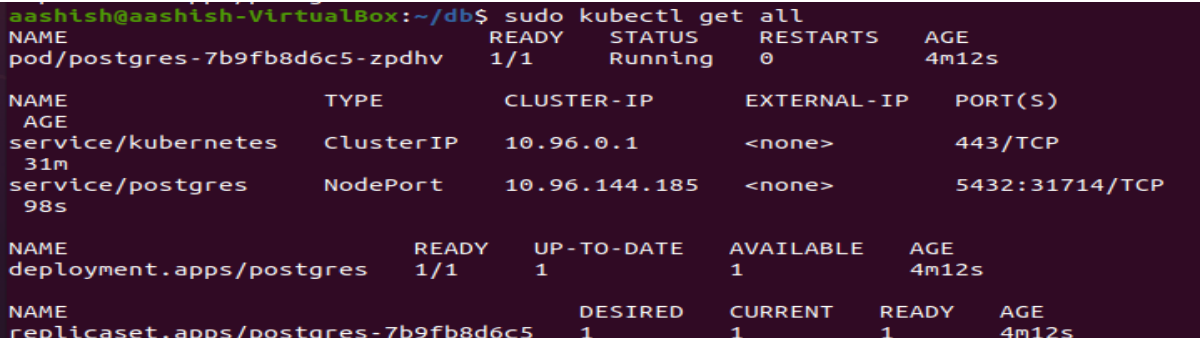
- **sudo kubectl -f postgres-service.yaml**



```
aashish@aashish-VirtualBox:~/db$ sudo nano postgres-service.yaml
aashish@aashish-VirtualBox:~/db$ sudo kubectl apply -f postgres-service.yaml
service/postgres created
```

Then, to list all resources on the system we use the following command;

- **sudo kubectl get all**



```
aashish@aashish-VirtualBox:~/db$ sudo kubectl get all
NAME                                READY    STATUS    RESTARTS   AGE
pod/postgres-7b9fb8d6c5-zpdhv       1/1      Running   0           4m12s

NAME                                TYPE                CLUSTER-IP      EXTERNAL-IP    PORT(S)
AGE
service/kubernetes                  ClusterIP           10.96.0.1       <none>          443/TCP
31m
service/postgres                    NodePort            10.96.144.185   <none>          5432:31714/TCP
98s

NAME                                READY    UP-TO-DATE   AVAILABLE   AGE
deployment.apps/postgres            1/1      1             1           4m12s

NAME                                DESIRED    CURRENT    READY   AGE
replicaset.apps/postgres-7b9fb8d6c5 1          1          1       4m12s
```