

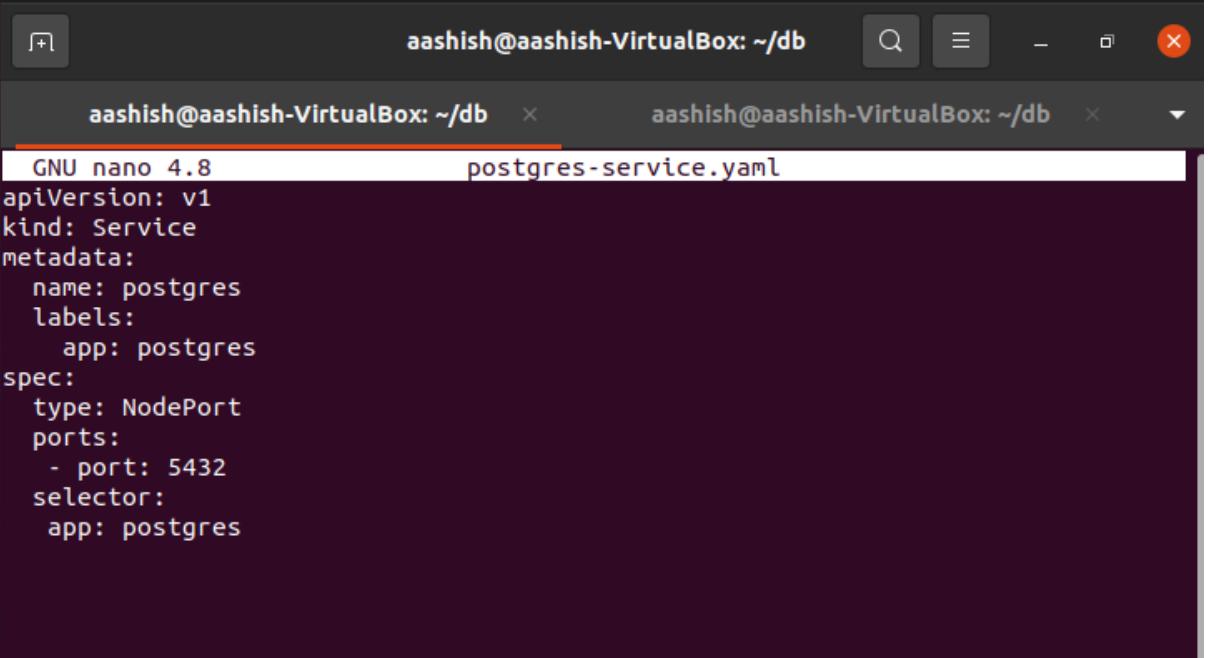
2.

Deploy Postgres Client in cluster(sql).

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**



The screenshot shows a terminal window with two tabs. The active tab is titled 'postgres-service.yaml' and contains the following YAML configuration:

```
GNU nano 4.8
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
                                     TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)
NAME                AGE
service/kubernetes  31m       ClusterIP      <none>        443/TCP
service/postgres   98s       NodePort       10.96.144.185  <none>        5432:31714/TCP
                                     READY   UP-TO-DATE   AVAILABLE   AGE
deployment.apps/postgres  1/1     1           1           4m12s
                                     DESIRED  CURRENT    READY      AGE
replicaset.apps/postgres-7b9fb8d6c5  1        1           1           4m12s
```