

MiniKube

[download](#)

```
paru -S kubectl minikube kompose
```

Install Minikube

<https://phoenixnap.com/kb/install-minikube-on-ubuntu>

install VirtualBox

```
sudo apt install virtualbox virtualbox-ext-pack
```

install MiniKube

```
wget  
https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64
```

```
sudo cp minikube-linux-amd64 /usr/local/bin/minikube
```

```
sudo chmod 755 /usr/local/bin/minikube
```

install Kubectl

```
curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s  
https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/li  
nux/amd64/kubectl
```

```
chmod +x ./kubectl
```

```
sudo mv ./kubectl /usr/local/bin/kubectl
```

```
check version --> kubectl version -o json
```

```
minikube start
```

Run PostgreSQL server and Pgadmin on minikube

Deploy Postgres

- Create configuration file (.yaml)
- kubectl apply -f <filename.yaml>
- Create PersistentVolumeClaim file (.yaml)
- kubectl apply -f <filename.yaml>
- Create deployment file (.yaml)
- kubectl apply -f <filename.yaml>
- Create service file (.yaml)
- kubectl apply -f <filename.yaml>

Deploy Pgadmin

<https://www.enterprisedb.com/blog/how-deploy-pgadmin-kubernetes>

- Create configuration file (.yaml)
- kubectl apply -f <filename.yaml>
- Create service file (.yaml)
- kubectl apply -f <filename.yaml>
- Create StatefulSet file (.yaml)
- kubectl apply -f <filename.yaml>

Connect pgadmin to server

```
minikube service <NamePgadminService>
```

1. Login Pgadmin
2. Server -> Properties
3. Change host name/address to Postgres service name
4. Change username to one set in postgres config file
5. Change port (if not default) to ContainerPort (not Minikube service port)
6. Connect to server

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