

# 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>
```

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

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