

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
```

Deploy Postgres

1. Create configuration file (.yaml)

2. `kubectl apply -f <filename.yaml>`
3. Create PersistenVolumeClaim file (.yaml)
4. `kubectl apply -f <filename.yaml>`
5. Create deployment file (.yaml)
6. `kubectl apply -f <filename.yaml>`
7. Create service file (.yaml)
8. `kubectl apply -f <filename.yaml>`

Deploy Pgadmin

- Create configuration 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 port (if not default) to ContainerPort (not Minikube service port)
5. Connect to server

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