**Running Minikube in (Ubuntu 18)**

## Installation of Minikube on Ubuntu

### 1. Run a public Server with the following setup

|  |  |
| --- | --- |
| **AMI** | Ubuntu Server 18.04 LTS (HVM), SSD Volume Type |
| **Instance Type** | t2.micro |
| **Storage** | 8 GB (gp2) |
| **Tags** | – Key: Name – Value: Minikube |
| **Security Group** | Name: Minikube Security Group – SSH, 0.0.0.0/0 *Later we will be editing this.* |
| **Key Pair** | Create your own keypair. *You will need this to SSH to your EC2 Instance* |

The above setup is within the AWS Free Tier so you could try Minikube on EC2 without spending money. But you can run Minikube on a bigger instance if you like.

### 2. SSH into your created EC2 Instance using your keypair.

$ ssh ubuntu@<ipv4\_public\_ip> -i <keypair>.pem

### 3. Install kubectl

$ curl -LO https://storage.googleapis.com/kubernetes-release/release/$(curl -s https://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/linux/amd64/kubectl

$ chmod +x ./kubectl

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

### 4. Install Docker

$ sudo apt-get update && \

$ sudo apt-get install docker.io -y

### 5. Install Minikube

$ curl -Lo minikube https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64 && chmod +x minikube && sudo

$ mv minikube /usr/local/bin/

$ apt install kubelet

### 6. Check Minikube Version

$ minikube version

We have now successfully installed Minikube!

## Running Minikube on EC2 Ubuntu

**1. Become a root user.**

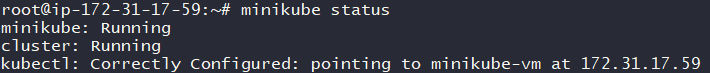
$ sudo -i

### 2. Start Minikube

$ minikube start --vm-driver=none --docker-env HTTP\_PROXY=http://172.31.34.244:8080 --docker-env HTTPS\_PROXY=http://172.31.34.244:8080 --docker-env

### 3. Check the status of Minikube

$ minikube status



**Enable Kubernetes Dashboard**

**1. First check the addon list**

$ minikube addons list

**2. Create the dashboard**

$ minikube dashboard

**3. Start the proxy to access the dashboard**

$ nohup kubectl proxy --address="172.31.34.244" -p 80 --accept-hosts='^\*$' -n kube-dashboard&

**3. Open the URL in web browser to access dashboard**

<http://34.249.128.76/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/error?namespace=default>

**Destroy Minikube**

$ minikube stop

$ minikube delete

$ rm -rf ~/.minikube