# **Minikube Installation on Linux**

Minikube is a tool that makes Kubernetes run locally. It runs a single node cluster inside a VM. its the fastest way to run Kubernetes cluster mainly used for practicing and studying purpose.

Create EC2 Instance with **Ubuntu AMI** and **t2.medium** Processor with disk space of 20 GiB

Login to EC2 Instance from Git Bash or any other Terminal

## **Install Kubectl on Linux**

curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s [https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/linux/amd64/kubectl](https://storage.googleapis.com/kubernetes-release/release/stable.txt%60/bin/linux/amd64/kubectl)

chmod +x ./kubectl

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

kubectl version --client

## **Install Docker**

sudo apt-get update && sudo apt-get install docker.io -y

## **Install Minikube**

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

sudo mkdir -p /usr/local/bin/

sudo install minikube /usr/local/bin/

sudo apt install conntrack

minikube version

sudo su

## **Build and Install cri-dockerid**

git clone https://github.com/Mirantis/cri-dockerd.git

# Run these commands as root

###Install GO###

add-apt-repository ppa:longsleep/golang-backports

apt-get update

apt-get install golang-go -y

apt-get update

go version

cd cri-dockerd;mkdir bin

go get && go build -o bin/cri-dockerd;mkdir -p /usr/local/bin

install -o root -g root -m 0755 bin/cri-dockerd /usr/local/bin/cri-dockerd

cp -a packaging/systemd/\* /etc/systemd/system

sed -i -e 's,/usr/bin/cri-dockerd,/usr/local/bin/cri-dockerd,' /etc/systemd/system/cri-docker.service

systemctl daemon-reload;systemctl enable cri-docker.service;systemctl enable --now cri-docker.socket

## **Build and Install crictl**

VERSION="v1.29.0"

wget https://github.com/kubernetes-sigs/cri-tools/releases/download/$VERSION/crictl-$VERSION-linux-amd64.tar.gz

tar zxvf crictl-$VERSION-linux-amd64.tar.gz -C /usr/local/bin

rm -f crictl-$VERSION-linux-amd64.tar.gz

## **Install Container Networking Plugin**

CNI\_PLUGIN\_VERSION="v1.4.0"

CNI\_PLUGIN\_TAR="cni-plugins-linux-amd64-$CNI\_PLUGIN\_VERSION.tgz"

# change arch if not on amd64

CNI\_PLUGIN\_INSTALL\_DIR="/opt/cni/bin"

curl -LO "https://github.com/containernetworking/plugins/releases/download/$CNI\_PLUGIN\_VERSION/$CNI\_PLUGIN\_TAR"

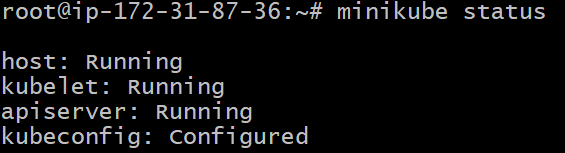
mkdir -p "$CNI\_PLUGIN\_INSTALL\_DIR"

tar -xf "$CNI\_PLUGIN\_TAR" -C "$CNI\_PLUGIN\_INSTALL\_DIR"

rm "$CNI\_PLUGIN\_TAR"

minikube start --driver=none

minikube status



kubectl get nodes