Installation of Minikube on EC2 Ubuntu

1. Run a public EC2 Server with the following setup

AMI Ubuntu Server 18.04 LTS (HVM), SSD Volume Type

Instance Type t3.micro (2 vCPU, 1GB Memory)

Storage 8 GB (gp2)

Tags â€“ Key: Name

â€“ Value: Minikube

Security Group Name: Minikube Security Group

â€“ 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

We need atleast 2 CPU and 2 GB RAM

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

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

Minikube requires Docker.

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/

6. Check Minikube Version

minikube version

8. Install conntrack

sudo apt-get install -y conntrack

~~root@debian:/usr/sbin# cd /usr/bin/~~

~~root@debian:/usr/bin# ln -s /usr/sbin/conntrack conntrack~~

**9. Build and install cri-dockerd**

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To begin following the build process for this code, clone this repository in your local environment:

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

The above step creates a local directory called cri-dockerd which you will need for the following steps.

To build for a specific architecture, add ARCH= as an argument, where ARCH is a known build target for golang

To install, on a Linux system that uses systemd, and already has Docker Engine installed

# Run these commands as root

###Install GO###

wget https://storage.googleapis.com/golang/getgo/installer\_linux

chmod +x ./installer\_linux

./installer\_linux

source ~/.bash\_profile

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

**10. install crictl**

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wget https://github.com/kubernetes-sigs/cri-tools/releases/download/v1.24.2/crictl-v1.24.2-linux-amd64.tar.gz

tar -zxvf crictl-v1.24.2-linux-amd64.tar.gz

mv crictl /usr/local/bin

minikube start --driver=none

10. Start the minikube

minikube start --driver=none

11.

sudo mv /root/.kube /root/.minikube $HOME

sudo chown -R $USER $HOME/.kube $HOME/.minikube