1 sudo apt-get remove docker docker-engine docker.io containerd runc

2 apt-get update

3 apt-get install ca-certificates curl gnupg lsb-release -y

4 mkdir -m 0755 -p /etc/apt/keyrings

5 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

6 sudo apt-get update

7 sudo apt-get install \

ca-certificates \

curl \

gnupg \

lsb-release

8 echo \

"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \

$(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

9 chmod a+r /etc/apt/keyrings/docker.gpg

10 sudo apt-get update

11 sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

12 sudo docker run hello-world

13 wget https://go.dev/dl/go1.20.2.linux-amd64.tar.gz

14 ls

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

16 ls

17 tar -xvf go1.20.2.linux-amd64.tar.gz

18 echo 'export PATH=$PATH:/usr/local/go/bin' >>~/.profile

19 source ~/.profile

20 sudo apt install golang-go -y

21 go version

22 ls

23 cd cri-dockerd/

24 mkdir bin

25 go build -o bin/cri-dockerd

26 mkdir -p /usr/local/bin

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

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

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

30 systemctl daemon-reload

31 systemctl enable cri-docker.service

32 systemctl enable --now cri-docker.socket

33 sudo apt-get update

34 sudo apt-get install -y apt-transport-https ca-certificates curl

35 sudo curl -fsSLo /etc/apt/keyrings/kubernetes-archive-keyring.gpg https://packages.cloud.google.com/apt/doc/apt-key.gpg

36 echo "deb [signed-by=/etc/apt/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list

37 sudo apt-get update

38 sudo apt-get install -y kubelet kubeadm kubectl

39 sudo apt-mark hold kubelet kubeadm kubectl

ON MASTER:

01 sudo apt-mark hold kubelet kubeadm kubectl

02 ip addr

03 kubeadm init --pod-network-cidr=192.168.0.0/16 (**FROM:** [**https://docs.tigera.io/calico/3.25/getting-started/kubernetes/hardway/standing-up-kubernetes#install-kubernetes**](https://docs.tigera.io/calico/3.25/getting-started/kubernetes/hardway/standing-up-kubernetes#install-kubernetes) **)**

**#** copy the sudo kubeadm init --pod-network-cidr=192.168.0.0/16

# kubeadm init --help

04 kubeadm init --pod-network-cidr=192.168.0.0/16 --cri-socket=unix:///var/run/cri-dockerd.sock

(As it gives multi Found multiple CRI endpoints on the host.)

05 kubectl get pods -A

06 cd ubuntu

07 curl https://raw.githubusercontent.com/projectcalico/calico/v3.25.0/manifests/calico.yaml -O

08 ls

09 kubectl apply -f calico.yaml

10 kubectl get pods -A --watch

11 kubectl get pods -A

12 history

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ON NODE

# kubeadm join 172.31.46.255:6443 --token xe4h65.gt09wfi60j5l4chc --discovery-token-ca-cert-hash sha256:6cc7c818f7b514aa75f1212412110db90ea9d1a86623f8d2ea1ba36f7bf69d8e --cri-socket unix:///var/run/cri-dockerd.sock

<kubeadm join ip:6443> --cri-socket unix:///var/run/cri-dockerd.sock

**Flag: <--cri-socket > Argument: <unix:///var/run/cri-dockerd.sock>**

The error Found multiple CRI endpoints on the host. Please define which one do you wish to use by setting the 'criSocket' field in the kubeadm configuration file: unix:///var/run/containerd/containerd.sock, unix:///var/run/cri-dockerd.sock

To see the stack trace of this error execute with --v=5 or higher

Command for node:

1 apt-get install ca-certificates curl gnupg lsb-release

2 mkdir -m 0755 -p /etc/apt/keyrings

3 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

4 chmod a+r /etc/apt/keyrings/docker.gpg

5 apt-get update

6 sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

7 sudo apt-get install ca-certificates curl gnupg lsb-release

8 sudo mkdir -m 0755 -p /etc/apt/keyrings

9 curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

10 echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \

$(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

11 sudo apt-get update

12 sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin

13 sudo docker run hello-world

14 wget https://go.dev/dl/go1.20.2.linux-amd64.tar.gz

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

16 ls

17 tar -xvf go1.20.2.linux-amd64.tar.gz

18 echo 'export PATH=$PATH:/usr/local/go/bin' >>~/.profile

19 source ~/.profile

20 apt install golang-go -y

21 go version

22 ls

23 cd cri-dockerd/

24 go version

25 mkdir bin

26 mkdir -p /usr/local/bin

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

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

29 systemctl enable cri-docker.service

30 sudo apt-get update

31 sudo apt-get install -y apt-transport-https ca-certificates curl

32 sudo curl -fsSLo /etc/apt/keyrings/kubernetes-archive-keyring.gpg htt3s://packages.cloud.google.com/apt/doc/apt-key.gpg

34 echo "deb [signed-by=/etc/apt/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list

35 sudo apt-get update

36 kubeadm join 172.31.46.255:6443 --token xe4h65.gt09wfi60j5l4chc --discovery-token-ca-cert-hash sha256:6cc7c818f7b514aa75f1212412110db90ea9d1a86623f8d2ea1ba36f7bf69d8e --cri-socket unix:///var/run/cri-dockerd.sock