root@ubuntu-2204:/home/ubuntu# hostnamectl set-hostname master

root@ubuntu-2204:/home/ubuntu# sudo su

root@master:/home/ubuntu# exit

exit

root@ubuntu-2204:/home/ubuntu# cat /etc/ssh/sshd\_config|grep Permit

**Permit**RootLogin yes

#**Permit**EmptyPasswords no

# the setting of "**Permit**RootLogin without-password".

#**Permit**TTY yes

#**Permit**UserEnvironment no

#**Permit**Tunnel no

# **Permit**TTY no

root@ubuntu-2204:/home/ubuntu#

root@ubuntu-2204:/home/ubuntu# sudo su

root@master:/home/ubuntu# cd

root@master:~# sudo apt-get update

sudo apt-get install \

ca-certificates \

curl \

gnupg \

lsb-release

sudo mkdir -p /etc/apt/keyrings

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

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

sudo apt-get update

sudo apt-get install containerd.io

Reading package lists... Done

E: Could not get lock /var/lib/apt/lists/lock. It is held by process 3127 (apt-get)

N: Be aware that removing the lock file is not a solution and may break your system.

E: Unable to lock directory /var/lib/apt/lists/

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

ca-certificates is already the newest version (20211016).

ca-certificates set to manually installed.

lsb-release is already the newest version (11.1.0ubuntu4).

lsb-release set to manually installed.

The following package was automatically installed and is no longer required:

virtualbox-guest-utils

Use &apos;sudo apt autoremove&apos; to remove it.

The following additional packages will be installed:

dirmngr gnupg-l10n gnupg-utils gpg gpg-agent gpg-wks-client gpg-wks-server gpgconf gpgsm gpgv

libcurl4

Suggested packages:

tor parcimonie xloadimage scdaemon

The following NEW packages will be installed:

curl

The following packages will be upgraded:

dirmngr gnupg gnupg-l10n gnupg-utils gpg gpg-agent gpg-wks-client gpg-wks-server gpgconf gpgsm

gpgv libcurl4

12 upgraded, 1 newly installed, 0 to remove and 304 not upgraded.

Need to get 2,730 kB of archives.

After this operation, 458 kB of additional disk space will be used.

Do you want to continue? [Y/n] Y

Get:1 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpg-wks-client amd64 2.2.27-3ubuntu2.1 [62.7 kB]

Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 dirmngr amd64 2.2.27-3ubuntu2.1 [293 kB]

Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gnupg-utils amd64 2.2.27-3ubuntu2.1 [308 kB]

Get:4 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpg-wks-server amd64 2.2.27-3ubuntu2.1 [57.5 kB]

Get:5 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpg-agent amd64 2.2.27-3ubuntu2.1 [209 kB]

Get:6 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpg amd64 2.2.27-3ubuntu2.1 [519 kB]

Get:7 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpgconf amd64 2.2.27-3ubuntu2.1 [94.2 kB]

Get:8 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gnupg-l10n all 2.2.27-3ubuntu2.1 [54.4 kB]

Get:9 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gnupg all 2.2.27-3ubuntu2.1 [315 kB]

Get:10 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpgsm amd64 2.2.27-3ubuntu2.1 [197 kB]

Get:11 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gpgv amd64 2.2.27-3ubuntu2.1 [137 kB]

Get:12 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcurl4 amd64 7.81.0-1ubuntu1.4 [290 kB]

Get:13 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 curl amd64 7.81.0-1ubuntu1.4 [194 kB]

Fetched 2,730 kB in 10s (272 kB/s)

(Reading database ... 162908 files and directories currently installed.)

Preparing to unpack .../00-gpg-wks-client\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpg-wks-client (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../01-dirmngr\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking dirmngr (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../02-gnupg-utils\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gnupg-utils (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../03-gpg-wks-server\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpg-wks-server (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../04-gpg-agent\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpg-agent (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../05-gpg\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpg (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../06-gpgconf\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpgconf (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../07-gnupg-l10n\_2.2.27-3ubuntu2.1\_all.deb ...

Unpacking gnupg-l10n (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../08-gnupg\_2.2.27-3ubuntu2.1\_all.deb ...

Unpacking gnupg (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../09-gpgsm\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpgsm (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Preparing to unpack .../10-gpgv\_2.2.27-3ubuntu2.1\_amd64.deb ...

Unpacking gpgv (2.2.27-3ubuntu2.1) over (2.2.27-3ubuntu2) ...

Setting up gpgv (2.2.27-3ubuntu2.1) ...

(Reading database ... 162908 files and directories currently installed.)

Preparing to unpack .../libcurl4\_7.81.0-1ubuntu1.4\_amd64.deb ...

Unpacking libcurl4:amd64 (7.81.0-1ubuntu1.4) over (7.81.0-1) ...

Selecting previously unselected package curl.

Preparing to unpack .../curl\_7.81.0-1ubuntu1.4\_amd64.deb ...

Unpacking curl (7.81.0-1ubuntu1.4) ...

Setting up gnupg-l10n (2.2.27-3ubuntu2.1) ...

Setting up gpgconf (2.2.27-3ubuntu2.1) ...

Setting up libcurl4:amd64 (7.81.0-1ubuntu1.4) ...

Setting up curl (7.81.0-1ubuntu1.4) ...

Setting up gpg (2.2.27-3ubuntu2.1) ...

Setting up gnupg-utils (2.2.27-3ubuntu2.1) ...

Setting up gpg-agent (2.2.27-3ubuntu2.1) ...

Setting up gpgsm (2.2.27-3ubuntu2.1) ...

Setting up dirmngr (2.2.27-3ubuntu2.1) ...

Setting up gpg-wks-server (2.2.27-3ubuntu2.1) ...

Setting up gpg-wks-client (2.2.27-3ubuntu2.1) ...

Setting up gnupg (2.2.27-3ubuntu2.1) ...

Processing triggers for libc-bin (2.35-0ubuntu3) ...

Processing triggers for man-db (2.10.2-1) ...

Processing triggers for install-info (6.8-4build1) ...

Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]

Hit:2 http://us.archive.ubuntu.com/ubuntu jammy InRelease

Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]

Get:4 http://security.ubuntu.com/ubuntu jammy-security/main amd64 DEP-11 Metadata [13.0 kB]

Ign:5 https://download.docker.com/linux/ubuntu $(lsb\_release InRelease

Get:6 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 DEP-11 Metadata [12.1 kB]

Err:7 https://download.docker.com/linux/ubuntu $(lsb\_release Release

404 Not Found [IP: 13.224.20.68 443]

Get:8 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]

Get:9 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 DEP-11 Metadata [92.8 kB]

Get:10 http://us.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 DEP-11 Metadata [247 kB]

Get:11 http://us.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 DEP-11 Metadata [940 B]

Get:12 http://us.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [12.7 kB]

Reading package lists... Done

E: The repository &apos;https://download.docker.com/linux/ubuntu $(lsb\_release Release&apos; does not have a Release file.

N: Updating from such a repository can&apos;t be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository creation and user configuration details.

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

E: Unable to locate package containerd.io

E: Couldn&apos;t find any package by glob &apos;containerd.io&apos;

E: Couldn&apos;t find any package by regex &apos;containerd.io&apos;

root@master:~# sudo apt-get install containerd.io^C

root@master:~# 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

root@master:~# echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \$(lsb\_release -cs) stable"

deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable

root@master:~# lsb\_release -cs

jammy

root@master:~# echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \jammy stable"

deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu \jammy stable

root@master:~# echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu jammy stable"

deb [arch=amd64 signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu jammy stable

root@master:~# lsb\_release -cs^C

root@master:~# sudo apt-get update

Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease

Ign:2 https://download.docker.com/linux/ubuntu $(lsb\_release InRelease

Hit:3 http://security.ubuntu.com/ubuntu jammy-security InRelease

Err:4 https://download.docker.com/linux/ubuntu $(lsb\_release Release

404 Not Found [IP: 13.224.20.74 443]

Hit:5 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:6 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease

Reading package lists... Done

E: The repository &apos;https://download.docker.com/linux/ubuntu $(lsb\_release Release&apos; does not have a Release file.

N: Updating from such a repository can&apos;t be done securely, and is therefore disabled by default.

N: See apt-secure(8) manpage for repository creation and user configuration details.

root@master:~# echo "deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] https://download.docker.com/linux/ubuntu jammy stable" ^C

root@master:~# 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

root@master:~# apt-get update

Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease

Get:2 https://download.docker.com/linux/ubuntu jammy InRelease [48.9 kB]

Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease

Get:4 https://download.docker.com/linux/ubuntu jammy/stable amd64 Packages [7,065 B]

Hit:5 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease

Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease

Fetched 55.9 kB in 1s (50.4 kB/s)

Reading package lists... Done

root@master:~# sudo apt-get install containerd

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following package was automatically installed and is no longer required:

virtualbox-guest-utils

Use &apos;sudo apt autoremove&apos; to remove it.

The following additional packages will be installed:

runc

The following NEW packages will be installed:

containerd runc

0 upgraded, 2 newly installed, 0 to remove and 304 not upgraded.

Need to get 31.1 MB of archives.

After this operation, 124 MB of additional disk space will be used.

Do you want to continue? [Y/n] Y

Get:1 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 runc amd64 1.1.0-0ubuntu1 [4,087 kB]

Get:2 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 containerd amd64 1.5.9-0ubuntu3 [27.0 MB]

Fetched 31.1 MB in 12s (2,552 kB/s)

Selecting previously unselected package runc.

(Reading database ... 162915 files and directories currently installed.)

Preparing to unpack .../runc\_1.1.0-0ubuntu1\_amd64.deb ...

Unpacking runc (1.1.0-0ubuntu1) ...

Selecting previously unselected package containerd.

Preparing to unpack .../containerd\_1.5.9-0ubuntu3\_amd64.deb ...

Unpacking containerd (1.5.9-0ubuntu3) ...

Setting up runc (1.1.0-0ubuntu1) ...

Setting up containerd (1.5.9-0ubuntu3) ...

Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.

Processing triggers for man-db (2.10.2-1) ...

root@master:~# apt-get update^C

root@master:~# less /etc/containerd/config.toml

/etc/containerd/config.toml: No such file or directory

root@master:~# service containerd restart

root@master:~# less /etc/containerd/config.toml

/etc/containerd/config.toml: No such file or directory

root@master:~# vi /etc/containerd/config.toml

root@master:~# containerd default config

INFO[2022-09-28T13:00:37.627155860-04:00] starting containerd revision= version=1.5.9-0ubuntu3

INFO[2022-09-28T13:00:37.663671221-04:00] loading plugin "io.containerd.content.v1.content"... type=io.containerd.content.v1

INFO[2022-09-28T13:00:37.664028580-04:00] loading plugin "io.containerd.snapshotter.v1.aufs"... type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.666492514-04:00] skip loading plugin "io.containerd.snapshotter.v1.aufs"... error="aufs is not supported (modprobe aufs failed: exit status 1 \"modprobe: FATAL: Module aufs not found in directory /lib/modules/5.15.0-25-generic\\n\"): skip plugin" type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.666725864-04:00] loading plugin "io.containerd.snapshotter.v1.btrfs"... type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.667200667-04:00] skip loading plugin "io.containerd.snapshotter.v1.btrfs"... error="path /var/lib/containerd/io.containerd.snapshotter.v1.btrfs (ext4) must be a btrfs filesystem to be used with the btrfs snapshotter: skip plugin" type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.667419493-04:00] loading plugin "io.containerd.snapshotter.v1.devmapper"... type=io.containerd.snapshotter.v1

WARN[2022-09-28T13:00:37.667618162-04:00] failed to load plugin io.containerd.snapshotter.v1.devmapper error="devmapper not configured"

INFO[2022-09-28T13:00:37.667854506-04:00] loading plugin "io.containerd.snapshotter.v1.native"... type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.668080803-04:00] loading plugin "io.containerd.snapshotter.v1.overlayfs"... type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.668405628-04:00] loading plugin "io.containerd.snapshotter.v1.zfs"... type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.668858500-04:00] skip loading plugin "io.containerd.snapshotter.v1.zfs"... error="path /var/lib/containerd/io.containerd.snapshotter.v1.zfs must be a zfs filesystem to be used with the zfs snapshotter: skip plugin" type=io.containerd.snapshotter.v1

INFO[2022-09-28T13:00:37.669066456-04:00] loading plugin "io.containerd.metadata.v1.bolt"... type=io.containerd.metadata.v1

WARN[2022-09-28T13:00:37.669289617-04:00] could not use snapshotter devmapper in metadata plugin error="devmapper not configured"

INFO[2022-09-28T13:00:37.669514270-04:00] metadata content store policy set policy=shared

^C^[[A^C^C^C^Z

[1]+ Stopped containerd default config

root@master:~# containerd config default

disabled\_plugins = []

imports = []

oom\_score = 0

plugin\_dir = ""

required\_plugins = []

root = "/var/lib/containerd"

state = "/run/containerd"

version = 2

[cgroup]

path = ""

[debug]

address = ""

format = ""

gid = 0

level = ""

uid = 0

[grpc]

address = "/run/containerd/containerd.sock"

gid = 0

max\_recv\_message\_size = 16777216

max\_send\_message\_size = 16777216

tcp\_address = ""

tcp\_tls\_cert = ""

tcp\_tls\_key = ""

uid = 0

[metrics]

address = ""

grpc\_histogram = false

[plugins]

[plugins."io.containerd.gc.v1.scheduler"]

deletion\_threshold = 0

mutation\_threshold = 100

pause\_threshold = 0.02

schedule\_delay = "0s"

startup\_delay = "100ms"

[plugins."io.containerd.grpc.v1.cri"]

disable\_apparmor = false

disable\_cgroup = false

disable\_hugetlb\_controller = true

disable\_proc\_mount = false

disable\_tcp\_service = true

enable\_selinux = false

enable\_tls\_streaming = false

ignore\_image\_defined\_volumes = false

max\_concurrent\_downloads = 3

max\_container\_log\_line\_size = 16384

netns\_mounts\_under\_state\_dir = false

restrict\_oom\_score\_adj = false

sandbox\_image = "k8s.gcr.io/pause:3.5"

selinux\_category\_range = 1024

stats\_collect\_period = 10

stream\_idle\_timeout = "4h0m0s"

stream\_server\_address = "127.0.0.1"

stream\_server\_port = "0"

systemd\_cgroup = false

tolerate\_missing\_hugetlb\_controller = true

unset\_seccomp\_profile = ""

[plugins."io.containerd.grpc.v1.cri".cni]

bin\_dir = "/opt/cni/bin"

conf\_dir = "/etc/cni/net.d"

conf\_template = ""

max\_conf\_num = 1

[plugins."io.containerd.grpc.v1.cri".containerd]

default\_runtime\_name = "runc"

disable\_snapshot\_annotations = true

discard\_unpacked\_layers = false

no\_pivot = false

snapshotter = "overlayfs"

[plugins."io.containerd.grpc.v1.cri".containerd.default\_runtime]

base\_runtime\_spec = ""

container\_annotations = []

pod\_annotations = []

privileged\_without\_host\_devices = false

runtime\_engine = ""

runtime\_root = ""

runtime\_type = ""

[plugins."io.containerd.grpc.v1.cri".containerd.default\_runtime.options]

[plugins."io.containerd.grpc.v1.cri".containerd.runtimes]

[plugins."io.containerd.grpc.v1.cri".containerd.runtimes.runc]

base\_runtime\_spec = ""

container\_annotations = []

pod\_annotations = []

privileged\_without\_host\_devices = false

runtime\_engine = ""

runtime\_root = ""

runtime\_type = "io.containerd.runc.v2"

[plugins."io.containerd.grpc.v1.cri".containerd.runtimes.runc.options]

BinaryName = ""

CriuImagePath = ""

CriuPath = ""

CriuWorkPath = ""

IoGid = 0

IoUid = 0

NoNewKeyring = false

NoPivotRoot = false

Root = ""

ShimCgroup = ""

SystemdCgroup = false

[plugins."io.containerd.grpc.v1.cri".containerd.untrusted\_workload\_runtime]

base\_runtime\_spec = ""

container\_annotations = []

pod\_annotations = []

privileged\_without\_host\_devices = false

runtime\_engine = ""

runtime\_root = ""

runtime\_type = ""

[plugins."io.containerd.grpc.v1.cri".containerd.untrusted\_workload\_runtime.options]

[plugins."io.containerd.grpc.v1.cri".image\_decryption]

key\_model = "node"

[plugins."io.containerd.grpc.v1.cri".registry]

config\_path = ""

[plugins."io.containerd.grpc.v1.cri".registry.auths]

[plugins."io.containerd.grpc.v1.cri".registry.configs]

[plugins."io.containerd.grpc.v1.cri".registry.headers]

[plugins."io.containerd.grpc.v1.cri".registry.mirrors]

[plugins."io.containerd.grpc.v1.cri".x509\_key\_pair\_streaming]

tls\_cert\_file = ""

tls\_key\_file = ""

[plugins."io.containerd.internal.v1.opt"]

path = "/opt/containerd"

[plugins."io.containerd.internal.v1.restart"]

interval = "10s"

[plugins."io.containerd.metadata.v1.bolt"]

content\_sharing\_policy = "shared"

[plugins."io.containerd.monitor.v1.cgroups"]

no\_prometheus = false

[plugins."io.containerd.runtime.v1.linux"]

no\_shim = false

runtime = "runc"

runtime\_root = ""

shim = "containerd-shim"

shim\_debug = false

[plugins."io.containerd.runtime.v2.task"]

platforms = ["linux/amd64"]

[plugins."io.containerd.service.v1.diff-service"]

default = ["walking"]

[plugins."io.containerd.snapshotter.v1.aufs"]

root\_path = ""

[plugins."io.containerd.snapshotter.v1.btrfs"]

root\_path = ""

[plugins."io.containerd.snapshotter.v1.devmapper"]

async\_remove = false

base\_image\_size = ""

pool\_name = ""

root\_path = ""

[plugins."io.containerd.snapshotter.v1.native"]

root\_path = ""

[plugins."io.containerd.snapshotter.v1.overlayfs"]

root\_path = ""

[plugins."io.containerd.snapshotter.v1.zfs"]

root\_path = ""

[proxy\_plugins]

[stream\_processors]

[stream\_processors."io.containerd.ocicrypt.decoder.v1.tar"]

accepts = ["application/vnd.oci.image.layer.v1.tar+encrypted"]

args = ["--decryption-keys-path", "/etc/containerd/ocicrypt/keys"]

env = ["OCICRYPT\_KEYPROVIDER\_CONFIG=/etc/containerd/ocicrypt/ocicrypt\_keyprovider.conf"]

path = "ctd-decoder"

returns = "application/vnd.oci.image.layer.v1.tar"

[stream\_processors."io.containerd.ocicrypt.decoder.v1.tar.gzip"]

accepts = ["application/vnd.oci.image.layer.v1.tar+gzip+encrypted"]

args = ["--decryption-keys-path", "/etc/containerd/ocicrypt/keys"]

env = ["OCICRYPT\_KEYPROVIDER\_CONFIG=/etc/containerd/ocicrypt/ocicrypt\_keyprovider.conf"]

path = "ctd-decoder"

returns = "application/vnd.oci.image.layer.v1.tar+gzip"

[timeouts]

"io.containerd.timeout.shim.cleanup" = "5s"

"io.containerd.timeout.shim.load" = "5s"

"io.containerd.timeout.shim.shutdown" = "3s"

"io.containerd.timeout.task.state" = "2s"

[ttrpc]

address = ""

gid = 0

uid = 0

root@master:~# containerd config default|less

root@master:~# service containerd status

● containerd.service - containerd container runtime

Loaded: loaded (/lib/systemd/system/containerd.service; enabled; vendor preset: enabled)

Active: **active (running)** since Wed 2022-09-28 12:59:35 EDT; 1min 32s ago

Docs: https://containerd.io

Process: 7208 ExecStartPre=/sbin/modprobe overlay (code=exited, status=0/SUCCESS)

Main PID: 7209 (containerd)

Tasks: 8

Memory: 11.2M

CPU: 136ms

CGroup: /system.slice/containerd.service

└─7209 /usr/bin/containerd

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.370039892-04:00" level=info msg=s>

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.370086271-04:00" level=info msg=s>

Sep 28 12:59:35 master systemd[1]: Started containerd container runtime.

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.371681685-04:00" level=info msg=">

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.371984962-04:00" level=info msg=">

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.372165572-04:00" level=info msg=">

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.372288589-04:00" level=info msg=">

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.372413487-04:00" level=info msg=">

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.372519260-04:00" level=info msg=">

Sep 28 12:59:35 master containerd[7209]: time="2022-09-28T12:59:35.372835561-04:00" level=info msg=">

root@master:~# swapoff -a

root@master:~# vi /etc/fstab

root@master:~# sudo curl -fsSLo /usr/share/keyrings/kubernetes-archive-keyring.gpg https://packages.cloud.google.com/apt/doc/apt-key.gpg

root@master:~# echo "deb [signed-by=/usr/share/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list

deb [signed-by=/usr/share/keyrings/kubernetes-archive-keyring.gpg] https://apt.kubernetes.io/ kubernetes-xenial main

root@master:~# sudo apt-get update -y

Hit:1 https://download.docker.com/linux/ubuntu jammy InRelease

Hit:2 http://us.archive.ubuntu.com/ubuntu jammy InRelease

Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease

Hit:5 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease

Hit:6 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease

Get:3 https://packages.cloud.google.com/apt kubernetes-xenial InRelease [9,383 B]

Ign:7 https://packages.cloud.google.com/apt kubernetes-xenial/main amd64 Packages

Get:7 https://apt.kubernetes.io kubernetes-xenial/main amd64 Packages [60.1 kB]

Fetched 69.5 kB in 3s (21.3 kB/s)

Reading package lists... Done

root@master:~# apt-get install -y kubelet=1.19.1-00 kubeadm=1.19.1-00 kubectl=1.19.1-00

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

The following package was automatically installed and is no longer required:

virtualbox-guest-utils

Use &apos;sudo apt autoremove&apos; to remove it.

The following additional packages will be installed:

conntrack cri-tools ebtables ethtool kubernetes-cni socat

The following NEW packages will be installed:

conntrack cri-tools ebtables ethtool kubeadm kubectl kubelet kubernetes-cni socat

0 upgraded, 9 newly installed, 0 to remove and 304 not upgraded.

Need to get 77.9 MB of archives.

After this operation, 317 MB of additional disk space will be used.

Get:2 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 conntrack amd64 1:1.4.6-2build2 [33.5 kB]

Get:1 https://packages.cloud.google.com/apt kubernetes-xenial/main amd64 cri-tools amd64 1.25.0-00 [17.9 MB]

Get:5 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 ebtables amd64 2.0.11-4build2 [84.9 kB]

Get:8 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 ethtool amd64 1:5.16-1 [208 kB]

Get:9 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 socat amd64 1.7.4.1-3ubuntu4 [349 kB]

Get:3 https://packages.cloud.google.com/apt kubernetes-xenial/main amd64 kubernetes-cni amd64 1.1.1-00 [25.0 MB]

Get:4 https://packages.cloud.google.com/apt kubernetes-xenial/main amd64 kubelet amd64 1.19.1-00 [18.2 MB]

Get:6 https://packages.cloud.google.com/apt kubernetes-xenial/main amd64 kubectl amd64 1.19.1-00 [8,348 kB]

Get:7 https://packages.cloud.google.com/apt kubernetes-xenial/main amd64 kubeadm amd64 1.19.1-00 [7,758 kB]

Fetched 77.9 MB in 19s (4,187 kB/s)

Selecting previously unselected package conntrack.

(Reading database ... 162971 files and directories currently installed.)

Preparing to unpack .../0-conntrack\_1%3a1.4.6-2build2\_amd64.deb ...

Unpacking conntrack (1:1.4.6-2build2) ...

Selecting previously unselected package cri-tools.

Preparing to unpack .../1-cri-tools\_1.25.0-00\_amd64.deb ...

Unpacking cri-tools (1.25.0-00) ...

Selecting previously unselected package ebtables.

Preparing to unpack .../2-ebtables\_2.0.11-4build2\_amd64.deb ...

Unpacking ebtables (2.0.11-4build2) ...

Selecting previously unselected package ethtool.

Preparing to unpack .../3-ethtool\_1%3a5.16-1\_amd64.deb ...

Unpacking ethtool (1:5.16-1) ...

Selecting previously unselected package kubernetes-cni.

Preparing to unpack .../4-kubernetes-cni\_1.1.1-00\_amd64.deb ...

Unpacking kubernetes-cni (1.1.1-00) ...

Selecting previously unselected package socat.

Preparing to unpack .../5-socat\_1.7.4.1-3ubuntu4\_amd64.deb ...

Unpacking socat (1.7.4.1-3ubuntu4) ...

Selecting previously unselected package kubelet.

Preparing to unpack .../6-kubelet\_1.19.1-00\_amd64.deb ...

Unpacking kubelet (1.19.1-00) ...

Selecting previously unselected package kubectl.

Preparing to unpack .../7-kubectl\_1.19.1-00\_amd64.deb ...

Unpacking kubectl (1.19.1-00) ...

Selecting previously unselected package kubeadm.

Preparing to unpack .../8-kubeadm\_1.19.1-00\_amd64.deb ...

Unpacking kubeadm (1.19.1-00) ...

Setting up conntrack (1:1.4.6-2build2) ...

Setting up kubectl (1.19.1-00) ...

Setting up ebtables (2.0.11-4build2) ...

Setting up socat (1.7.4.1-3ubuntu4) ...

Setting up cri-tools (1.25.0-00) ...

Setting up kubernetes-cni (1.1.1-00) ...

Setting up ethtool (1:5.16-1) ...

Setting up kubelet (1.19.1-00) ...

Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.

Setting up kubeadm (1.19.1-00) ...

Processing triggers for man-db (2.10.2-1) ...

root@master:~# cat <<EOF | sudo tee /etc/modules-load.d/k8s.conf

overlay

br\_netfilter

EOF

sudo modprobe overlay

sudo modprobe br\_netfilter

# sysctl params required by setup, params persist across reboots

cat <<EOF | sudo tee /etc/sysctl.d/k8s.conf

net.bridge.bridge-nf-call-iptables = 1

net.bridge.bridge-nf-call-ip6tables = 1

net.ipv4.ip\_forward = 1

EOF

# Apply sysctl params without reboot

sudo sysctl --system

overlay

br\_netfilter

net.bridge.bridge-nf-call-iptables = 1

net.bridge.bridge-nf-call-ip6tables = 1

net.ipv4.ip\_forward = 1

\* Applying /etc/sysctl.d/10-console-messages.conf ...

kernel.printk = 4 4 1 7

\* Applying /etc/sysctl.d/10-ipv6-privacy.conf ...

net.ipv6.conf.all.use\_tempaddr = 2

net.ipv6.conf.default.use\_tempaddr = 2

\* Applying /etc/sysctl.d/10-kernel-hardening.conf ...

kernel.kptr\_restrict = 1

\* Applying /etc/sysctl.d/10-magic-sysrq.conf ...

kernel.sysrq = 176

\* Applying /etc/sysctl.d/10-network-security.conf ...

net.ipv4.conf.default.rp\_filter = 2

net.ipv4.conf.all.rp\_filter = 2

\* Applying /etc/sysctl.d/10-ptrace.conf ...

kernel.yama.ptrace\_scope = 1

\* Applying /etc/sysctl.d/10-zeropage.conf ...

vm.mmap\_min\_addr = 65536

\* Applying /usr/lib/sysctl.d/30-tracker.conf ...

fs.inotify.max\_user\_watches = 65536

\* Applying /usr/lib/sysctl.d/50-bubblewrap.conf ...

kernel.unprivileged\_userns\_clone = 1

\* Applying /usr/lib/sysctl.d/50-default.conf ...

kernel.core\_uses\_pid = 1

net.ipv4.conf.default.rp\_filter = 2

net.ipv4.conf.default.accept\_source\_route = 0

sysctl: setting key "net.ipv4.conf.all.accept\_source\_route": Invalid argument

net.ipv4.conf.default.promote\_secondaries = 1

sysctl: setting key "net.ipv4.conf.all.promote\_secondaries": Invalid argument

net.ipv4.ping\_group\_range = 0 2147483647

net.core.default\_qdisc = fq\_codel

fs.protected\_hardlinks = 1

fs.protected\_symlinks = 1

fs.protected\_regular = 1

fs.protected\_fifos = 1

\* Applying /usr/lib/sysctl.d/50-pid-max.conf ...

kernel.pid\_max = 4194304

\* Applying /usr/lib/sysctl.d/99-protect-links.conf ...

fs.protected\_fifos = 1

fs.protected\_hardlinks = 1

fs.protected\_regular = 2

fs.protected\_symlinks = 1

\* Applying /etc/sysctl.d/99-sysctl.conf ...

\* Applying /etc/sysctl.d/k8s.conf ...

net.bridge.bridge-nf-call-iptables = 1

net.bridge.bridge-nf-call-ip6tables = 1

net.ipv4.ip\_forward = 1

\* Applying /etc/sysctl.conf ...

root@master:~# ifconfig

enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255

inet6 fe80::c919:c166:f8a5:74f7 prefixlen 64 scopeid 0x20<link>

ether 08:00:27:81:43:e1 txqueuelen 1000 (Ethernet)

RX packets 461856 bytes 690505694 (690.5 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 32461 bytes 2229370 (2.2 MB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s8: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 10.0.2.10 netmask 255.255.255.0 broadcast 10.0.2.255

inet6 fe80::945:552d:deab:d83b prefixlen 64 scopeid 0x20<link>

ether 08:00:27:be:2a:44 txqueuelen 1000 (Ethernet)

RX packets 457 bytes 56887 (56.8 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 554 bytes 54439 (54.4 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

enp0s9: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500

inet 192.168.0.8 netmask 255.255.255.0 broadcast 192.168.0.255

inet6 fe80::5a84:786a:2e9a:a837 prefixlen 64 scopeid 0x20<link>

ether 08:00:27:dd:2b:7b txqueuelen 1000 (Ethernet)

RX packets 885 bytes 98787 (98.7 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 541 bytes 50916 (50.9 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1000 (Local Loopback)

RX packets 912 bytes 100757 (100.7 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 912 bytes 100757 (100.7 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@master:~# kubeadm init --apiserver-advertise-address 10.0.2.10 --pod-network-cidr=192.168.0.0/16>>init.log

I0928 13:07:03.808099 8237 version.go:252] remote version is much newer: v1.25.2; falling back to: stable-1.19

W0928 13:07:04.833581 8237 configset.go:348] WARNING: kubeadm cannot validate component configs for API groups [kubelet.config.k8s.io kubeproxy.config.k8s.io]

root@master:~# less init.log

root@master:~# mkdir -p $HOME/.kube

sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config

sudo chown $(id -u):$(id -g) $HOME/.kube/config

root@master:~# vi /etc/sysctl.d/10-network-security.conf

root@master:~# kubectl describe nodes

.bash\_history .kube/ snap/

.bashrc .lesshst .sudo\_as\_admin\_successful

.cache/ .local/

init.log .profile

root@master:~# kubectl get nodes

NAME STATUS ROLES AGE VERSION

master NotReady master 3m50s v1.19.1

root@master:~# ls -lart

total 48

-rw-r--r-- 1 root root 161 Jul 9 2019 .profile

-rw-r--r-- 1 root root 3106 Oct 15 2021 .bashrc

drwx------ 2 root root 4096 Apr 19 06:05 **.cache**

drwxr-xr-x 20 root root 4096 Apr 22 02:07 **..**

drwx------ 5 root root 4096 Apr 22 02:10 **snap**

drwxr-xr-x 3 root root 4096 Apr 22 02:12 **.local**

-rw-r--r-- 1 root root 0 Sep 28 12:38 .sudo\_as\_admin\_successful

-rw------- 1 root root 5 Sep 28 12:38 .bash\_history

-rw-r--r-- 1 root root 4722 Sep 28 13:14 init.log

-rw------- 1 root root 20 Sep 28 13:14 .lesshst

drwx------ 6 root root 4096 Sep 28 13:14 **.**

drwxr-xr-x 3 root root 4096 Sep 28 13:16 **.kube**

root@master:~# kubectl describe node master

Name: master

Roles: master

Labels: beta.kubernetes.io/arch=amd64

beta.kubernetes.io/os=linux

kubernetes.io/arch=amd64

kubernetes.io/hostname=master

kubernetes.io/os=linux

node-role.kubernetes.io/master=

Annotations: kubeadm.alpha.kubernetes.io/cri-socket: /run/containerd/containerd.sock

node.alpha.kubernetes.io/ttl: 0

volumes.kubernetes.io/controller-managed-attach-detach: true

CreationTimestamp: Wed, 28 Sep 2022 13:12:55 -0400

Taints: node.kubernetes.io/not-ready:NoExecute

node-role.kubernetes.io/master:NoSchedule

node.kubernetes.io/not-ready:NoSchedule

Unschedulable: false

Lease:

HolderIdentity: master

AcquireTime: <unset>

RenewTime: Wed, 28 Sep 2022 13:18:06 -0400

Conditions:

Type Status LastHeartbeatTime LastTransitionTime Reason Message

---- ------ ----------------- ------------------ ------ -------

MemoryPressure False Wed, 28 Sep 2022 13:14:21 -0400 Wed, 28 Sep 2022 13:12:51 -0400 KubeletHasSufficientMemory kubelet has sufficient memory available

DiskPressure False Wed, 28 Sep 2022 13:14:21 -0400 Wed, 28 Sep 2022 13:12:51 -0400 KubeletHasNoDiskPressure kubelet has no disk pressure

PIDPressure False Wed, 28 Sep 2022 13:14:21 -0400 Wed, 28 Sep 2022 13:12:51 -0400 KubeletHasSufficientPID kubelet has sufficient PID available

Ready False Wed, 28 Sep 2022 13:14:21 -0400 Wed, 28 Sep 2022 13:12:51 -0400 KubeletNotReady runtime network not ready: NetworkReady=false reason:NetworkPluginNotReady message:Network plugin returns error: cni plugin not initialized

Addresses:

InternalIP: 10.0.2.15

Hostname: master

Capacity:

cpu: 2

ephemeral-storage: 525800976Ki

hugepages-2Mi: 0

memory: 4019996Ki

pods: 110

Allocatable:

cpu: 2

ephemeral-storage: 484578178680

hugepages-2Mi: 0

memory: 3917596Ki

pods: 110

System Info:

Machine ID: 5107e96ec98c45199290398eef818dff

System UUID: e5ccce5d-16c7-b044-94bb-9953c2e92eaa

Boot ID: 920dafee-1162-465a-9909-897c943977d4

Kernel Version: 5.15.0-25-generic

OS Image: Ubuntu 22.04 LTS

Operating System: linux

Architecture: amd64

Container Runtime Version: containerd://1.5.9-0ubuntu3

Kubelet Version: v1.19.1

Kube-Proxy Version: v1.19.1

PodCIDR: 192.168.0.0/24

PodCIDRs: 192.168.0.0/24

Non-terminated Pods: (5 in total)

Namespace Name CPU Requests CPU Limits Memory Requests Memory Limits AGE

--------- ---- ------------ ---------- --------------- ------------- ---

kube-system etcd-master 0 (0%) 0 (0%) 0 (0%) 0 (0%) 4m41s

kube-system kube-apiserver-master 250m (12%) 0 (0%) 0 (0%) 0 (0%) 4m43s

kube-system kube-controller-manager-master 200m (10%) 0 (0%) 0 (0%) 0 (0%) 4m37s

kube-system kube-proxy-29kwq 0 (0%) 0 (0%) 0 (0%) 0 (0%) 2m54s

kube-system kube-scheduler-master 100m (5%) 0 (0%) 0 (0%) 0 (0%) 4m41s

Allocated resources:

(Total limits may be over 100 percent, i.e., overcommitted.)

Resource Requests Limits

-------- -------- ------

cpu 550m (27%) 0 (0%)

memory 0 (0%) 0 (0%)

ephemeral-storage 0 (0%) 0 (0%)

hugepages-2Mi 0 (0%) 0 (0%)

Events:

Type Reason Age From Message

---- ------ ---- ---- -------

Normal Starting 3m53s kubelet, master Starting kubelet.

Warning InvalidDiskCapacity 3m53s kubelet, master invalid capacity 0 on image filesystem

Normal NodeHasSufficientMemory 3m53s kubelet, master Node master status is now: NodeHasSufficientMemory

Normal NodeHasNoDiskPressure 3m53s kubelet, master Node master status is now: NodeHasNoDiskPressure

Normal NodeHasSufficientPID 3m53s kubelet, master Node master status is now: NodeHasSufficientPID

Normal NodeAllocatableEnforced 3m53s kubelet, master Updated Node Allocatable limit across pods

Normal Starting 2m5s kube-proxy, master Starting kube-proxy.

root@master:~# kubectl taint node master node.kubernetes.io/not-ready:NoExecute-

node/master untainted

root@master:~# kubectl taint node master node-role.kubernetes.io/master:NoSchedule-

node/master untainted

root@master:~# kubectl taint node master node.kubernetes.io/not-ready:NoSchedule-

node/master untainted

root@master:~# kubectl apply -f https://docs.projectscalico.org/v3.11/manifests/calico.yaml

Unable to connect to the server: dial tcp: lookup docs.projectscalico.org on 127.0.0.53:53: no such host

root@master:~# kubectl apply -f https://docs.projectcalico.org/v3.11/manifests/calico.yaml

configmap/calico-config created

**Warning:** apiextensions.k8s.io/v1beta1 CustomResourceDefinition is deprecated in v1.16+, unavailable in v1.22+; use apiextensions.k8s.io/v1 CustomResourceDefinition

customresourcedefinition.apiextensions.k8s.io/felixconfigurations.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/ipamblocks.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/blockaffinities.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/ipamhandles.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/ipamconfigs.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/bgppeers.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/bgpconfigurations.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/ippools.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/hostendpoints.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/clusterinformations.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/globalnetworkpolicies.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/globalnetworksets.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/networkpolicies.crd.projectcalico.org created

customresourcedefinition.apiextensions.k8s.io/networksets.crd.projectcalico.org created

clusterrole.rbac.authorization.k8s.io/calico-kube-controllers created

clusterrolebinding.rbac.authorization.k8s.io/calico-kube-controllers created

clusterrole.rbac.authorization.k8s.io/calico-node created

clusterrolebinding.rbac.authorization.k8s.io/calico-node created

daemonset.apps/calico-node created

serviceaccount/calico-node created

deployment.apps/calico-kube-controllers created

serviceaccount/calico-kube-controllers created

root@master:~# kubectl get nodes

NAME STATUS ROLES AGE VERSION

master NotReady master 9m41s v1.19.1

root@master:~# kubectl get po -A

NAMESPACE NAME READY STATUS RESTARTS AGE

kube-system calico-kube-controllers-6b8f6f78dc-26ng9 0/1 Pending 0 16s

kube-system calico-node-k4pnh 0/1 Init:0/3 0 24s

kube-system coredns-f9fd979d6-r22sr 0/1 Pending 0 7m27s

kube-system coredns-f9fd979d6-t47pj 0/1 Pending 0 7m28s

kube-system etcd-master 1/1 Running 0 9m15s

kube-system kube-apiserver-master 1/1 Running 0 9m17s

kube-system kube-controller-manager-master 1/1 Running 1 9m11s

kube-system kube-proxy-29kwq 1/1 Running 0 7m28s

kube-system kube-scheduler-master 1/1 Running 0 9m15s

root@master:~# watch kubectl get po -A

root@master:~# watch kubectl get po -A

root@master:~#