login as: cloud\_user

Keyboard-interactive authentication prompts from server:

| Password:

End of keyboard-interactive prompts from server

Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.15.0-1015-aws x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

System information as of Mon Aug 1 06:10:43 UTC 2022

System load: 0.95

Usage of /: 27.6% of 19.31GB

Memory usage: 44%

Swap usage: 0%

Processes: 202

Users logged in: 1

IPv4 address for ens5: 172.31.47.54

IPv6 address for ens5: 2600:1f14:ec4:9802:c39f:9690:66f0:b4f4

\* Ubuntu Pro delivers the most comprehensive open source security and

compliance features.

https://ubuntu.com/aws/pro

0 updates can be applied immediately.

The list of available updates is more than a week old.

To check for new updates run: sudo apt update

Last login: Mon Aug 1 06:10:13 2022 from 203.170.48.2

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ uname -m

x86\_64

cloud\_user@c0cc00ba421c:~$ cat /etc/os-release

NAME="Ubuntu"

VERSION="20.04.4 LTS (Focal Fossa)"

ID=ubuntu

ID\_LIKE=debian

PRETTY\_NAME="Ubuntu 20.04.4 LTS"

VERSION\_ID="20.04"

HOME\_URL="https://www.ubuntu.com/"

SUPPORT\_URL="https://help.ubuntu.com/"

BUG\_REPORT\_URL="https://bugs.launchpad.net/ubuntu/"

PRIVACY\_POLICY\_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-poli cy"

VERSION\_CODENAME=focal

UBUNTU\_CODENAME=focal

cloud\_user@c0cc00ba421c:~$ curl -LO https://storage.googleapis.com/minikube/rele ases/latest/minikube\_latest\_amd64.deb

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 25.3M 100 25.3M 0 0 32.1M 0 --:--:-- --:--:-- --:--:-- 32.1M

cloud\_user@c0cc00ba421c:~$ sudo dpkg -i minikube\_latest\_amd64.deb

[sudo] password for cloud\_user:

Selecting previously unselected package minikube.

(Reading database ... 194756 files and directories currently installed.)

Preparing to unpack minikube\_latest\_amd64.deb ...

Unpacking minikube (1.26.0-0) ...

Setting up minikube (1.26.0-0) ...

cloud\_user@c0cc00ba421c:~$ systemctl docker status

Unknown operation docker.

cloud\_user@c0cc00ba421c:~$ systemctl status docker

Unit docker.service could not be found.

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ sudo apt-get update

Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal InRelease [265 kB]

Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [11 4 kB]

Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [ 108 kB]

Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]

Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 Packages [ 970 kB]

Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main Translation-en [ 506 kB]

Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 DEP-11 Met adata [494 kB]

Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 c-n-f Meta data [29.5 kB]

Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/restricted amd64 Pack ages [22.0 kB]

Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/restricted Translati on-en [6212 B]

Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/restricted amd64 c-n -f Metadata [392 B]

Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packa ges [8628 kB]

Get:13 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [163 1 kB]

Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe Translation -en [5124 kB]

Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 DEP-1 1 Metadata [3603 kB]

Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]

Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Pac kages [144 kB]

Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translati on-en [104 kB]

Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 DEP -11 Metadata [48.4 kB]

Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n -f Metadata [9136 B]

Get:21 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 P ackages [1992 kB]

Get:22 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main Transla tion-en [359 kB]

Get:23 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 D EP-11 Metadata [278 kB]

Get:24 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c -n-f Metadata [15.6 kB]

Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted a md64 Packages [1179 kB]

Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted T ranslation-en [168 kB]

Get:27 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted a md64 c-n-f Metadata [592 B]

Get:28 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd 64 Packages [926 kB]

Get:29 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Tra nslation-en [208 kB]

Get:30 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd 64 DEP-11 Metadata [391 kB]

Get:31 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd 64 c-n-f Metadata [21.0 kB]

Get:32 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse a md64 Packages [24.4 kB]

Get:33 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse T ranslation-en [7336 B]

Get:34 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse a md64 DEP-11 Metadata [944 B]

Get:35 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse a md64 c-n-f Metadata [592 B]

Get:36 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [44.8 kB]

Get:37 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/main Trans lation-en [11.3 kB]

Get:38 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 DEP-11 Metadata [7996 B]

Get:39 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [976 B]

Get:40 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]

Get:41 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/universe a md64 Packages [23.7 kB]

Get:42 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/universe T ranslation-en [15.9 kB]

Get:43 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/universe a md64 DEP-11 Metadata [30.5 kB]

Get:44 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/universe a md64 c-n-f Metadata [860 B]

Get:45 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]

Get:46 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [277 kB]

Get:47 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metada ta [40.8 kB]

Get:48 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadat a [10.8 kB]

Get:49 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Package s [1091 kB]

Get:50 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-e n [155 kB]

Get:51 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [711 kB]

Get:52 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [128 kB]

Get:53 http://security.ubuntu.com/ubuntu focal-security/universe amd64 DEP-11 Me tadata [66.9 kB]

Get:54 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Met adata [14.6 kB]

Get:55 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 DEP-11 Metadata [2464 B]

Fetched 30.4 MB in 8s (3715 kB/s)

Reading package lists... Done

cloud\_user@c0cc00ba421c:~$ sudo apt-get install \

> ca-certificates \

> curl \

> gnupg \

> lsb-release

Reading package lists... Done

Building dependency tree

Reading state information... Done

lsb-release is already the newest version (11.1.0ubuntu2).

lsb-release set to manually installed.

ca-certificates is already the newest version (20211016~20.04.1).

curl is already the newest version (7.68.0-1ubuntu2.12).

curl set to manually installed.

gnupg is already the newest version (2.2.19-3ubuntu2.2).

gnupg set to manually installed.

0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.

cloud\_user@c0cc00ba421c:~$ sudo mkdir -p /etc/apt/keyrings

cloud\_user@c0cc00ba421c:~$ curl -fsSL https://download.docker.com/linux/ubuntu/g pg | sudo gpg --dearmor -o /etc/apt/keyrings/docker.gpg

cloud\_user@c0cc00ba421c:~$ echo \

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

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

cloud\_user@c0cc00ba421c:~$ echo \

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

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

cloud\_user@c0cc00ba421c:~$ sudo apt-get update

Get:1 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]

Hit:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal InRelease

Hit:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease

Hit:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease

Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease

Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [17.6 kB]

Fetched 75.2 kB in 1s (89.1 kB/s)

Reading package lists... Done

cloud\_user@c0cc00ba421c:~$ sudo apt-get install docker-ce docker-ce-cli containe rd.io docker-compose-plugin

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

docker-ce-rootless-extras docker-scan-plugin pigz slirp4netns

Suggested packages:

aufs-tools cgroupfs-mount | cgroup-lite

The following NEW packages will be installed:

containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras

docker-compose-plugin docker-scan-plugin pigz slirp4netns

0 upgraded, 8 newly installed, 0 to remove and 5 not upgraded.

Need to get 108 MB of archives.

After this operation, 449 MB of additional disk space will be used.

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

Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 pigz a md64 2.4-1 [57.4 kB]

Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 slirp4 netns amd64 0.4.3-1 [74.3 kB]

Get:3 https://download.docker.com/linux/ubuntu focal/stable amd64 containerd.io amd64 1.6.6-1 [28.1 MB]

Get:4 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:20.10.17~3-0~ubuntu-focal [40.6 MB]

Get:5 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd6 4 5:20.10.17~3-0~ubuntu-focal [21.0 MB]

Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-root less-extras amd64 5:20.10.17~3-0~ubuntu-focal [8171 kB]

Get:7 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-compose -plugin amd64 2.6.0~ubuntu-focal [6560 kB]

Get:8 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-scan-pl ugin amd64 0.17.0~ubuntu-focal [3521 kB]

Fetched 108 MB in 7s (14.7 MB/s)

Selecting previously unselected package pigz.

(Reading database ... 194757 files and directories currently installed.)

Preparing to unpack .../0-pigz\_2.4-1\_amd64.deb ...

Unpacking pigz (2.4-1) ...

Selecting previously unselected package containerd.io.

Preparing to unpack .../1-containerd.io\_1.6.6-1\_amd64.deb ...

Unpacking containerd.io (1.6.6-1) ...

Selecting previously unselected package docker-ce-cli.

Preparing to unpack .../2-docker-ce-cli\_5%3a20.10.17~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce-cli (5:20.10.17~3-0~ubuntu-focal) ...

Selecting previously unselected package docker-ce.

Preparing to unpack .../3-docker-ce\_5%3a20.10.17~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce (5:20.10.17~3-0~ubuntu-focal) ...

Selecting previously unselected package docker-ce-rootless-extras.

Preparing to unpack .../4-docker-ce-rootless-extras\_5%3a20.10.17~3-0~ubuntu-foca l\_amd64.deb ...

Unpacking docker-ce-rootless-extras (5:20.10.17~3-0~ubuntu-focal) ...

Selecting previously unselected package docker-compose-plugin.

Preparing to unpack .../5-docker-compose-plugin\_2.6.0~ubuntu-focal\_amd64.deb ...

Unpacking docker-compose-plugin (2.6.0~ubuntu-focal) ...

Selecting previously unselected package docker-scan-plugin.

Preparing to unpack .../6-docker-scan-plugin\_0.17.0~ubuntu-focal\_amd64.deb ...

Unpacking docker-scan-plugin (0.17.0~ubuntu-focal) ...

Selecting previously unselected package slirp4netns.

Preparing to unpack .../7-slirp4netns\_0.4.3-1\_amd64.deb ...

Unpacking slirp4netns (0.4.3-1) ...

Setting up slirp4netns (0.4.3-1) ...

Setting up docker-scan-plugin (0.17.0~ubuntu-focal) ...

Setting up containerd.io (1.6.6-1) ...

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

Setting up docker-compose-plugin (2.6.0~ubuntu-focal) ...

Setting up docker-ce-cli (5:20.10.17~3-0~ubuntu-focal) ...

Setting up pigz (2.4-1) ...

Setting up docker-ce-rootless-extras (5:20.10.17~3-0~ubuntu-focal) ...

Setting up docker-ce (5:20.10.17~3-0~ubuntu-focal) ...

Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /li b/systemd/system/docker.service.

Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/sy stemd/system/docker.socket.

Processing triggers for man-db (2.9.1-1) ...

Processing triggers for systemd (245.4-4ubuntu3.17) ...

cloud\_user@c0cc00ba421c:~$ apt-cache madison docker-ce

docker-ce | 5:20.10.17~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.16~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.15~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.14~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.13~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.12~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.11~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.10~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:20.10.9~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.8~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.7~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.6~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.5~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.4~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.3~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.2~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.1~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:20.10.0~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

docker-ce | 5:19.03.15~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:19.03.14~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:19.03.13~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:19.03.12~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:19.03.11~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:19.03.10~3-0~ubuntu-focal | https://download.docker.com/linux/ubu ntu focal/stable amd64 Packages

docker-ce | 5:19.03.9~3-0~ubuntu-focal | https://download.docker.com/linux/ubun tu focal/stable amd64 Packages

cloud\_user@c0cc00ba421c:~$ sudo apt-get install docker-ce=5:20.10.16~3-0~ubuntu-focal docker-ce-cli=5:20.10.16~3-0~ubuntu-focal containerd.io docker-compose-plugin

Reading package lists... Done

Building dependency tree

Reading state information... Done

containerd.io is already the newest version (1.6.6-1).

docker-compose-plugin is already the newest version (2.6.0~ubuntu-focal).

Suggested packages:

aufs-tools cgroupfs-mount | cgroup-lite

The following packages will be DOWNGRADED:

docker-ce docker-ce-cli

0 upgraded, 0 newly installed, 2 downgraded, 0 to remove and 5 not upgraded.

Need to get 61.6 MB of archives.

After this operation, 13.3 kB disk space will be freed.

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

Get:1 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:20.10.16~3-0~ubuntu-focal [40.6 MB]

Get:2 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:20.10.16~3-0~ubuntu-focal [21.0 MB]

Fetched 61.6 MB in 6s (10.8 MB/s)

dpkg: warning: downgrading docker-ce-cli from 5:20.10.17~3-0~ubuntu-focal to 5:20.10.16~3-0~ubuntu-focal

(Reading database ... 195010 files and directories currently installed.)

Preparing to unpack .../docker-ce-cli\_5%3a20.10.16~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce-cli (5:20.10.16~3-0~ubuntu-focal) over (5:20.10.17~3-0~ubuntu-focal) ...

dpkg: warning: downgrading docker-ce from 5:20.10.17~3-0~ubuntu-focal to 5:20.10.16~3-0~ubuntu-focal

Preparing to unpack .../docker-ce\_5%3a20.10.16~3-0~ubuntu-focal\_amd64.deb ...

Unpacking docker-ce (5:20.10.16~3-0~ubuntu-focal) over (5:20.10.17~3-0~ubuntu-focal) ...

Setting up docker-ce-cli (5:20.10.16~3-0~ubuntu-focal) ...

Setting up docker-ce (5:20.10.16~3-0~ubuntu-focal) ...

Processing triggers for man-db (2.9.1-1) ...

Processing triggers for systemd (245.4-4ubuntu3.17) ...

cloud\_user@c0cc00ba421c:~$ sudo docker run hello-world

Unable to find image 'hello-world:latest' locally

latest: Pulling from library/hello-world

2db29710123e: Pull complete

Digest: sha256:53f1bbee2f52c39e41682ee1d388285290c5c8a76cc92b42687eecf38e0af3f0

Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.

(amd64)

3. The Docker daemon created a new container from that image which runs the

executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it

to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:

https://hub.docker.com/

For more examples and ideas, visit:

https://docs.docker.com/get-started/

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ docker images

Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/images/json": dial unix /var/run/docker.sock: connect: permission denied

cloud\_user@c0cc00ba421c:~$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

hello-world latest feb5d9fea6a5 10 months ago 13.3kB

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ sudo su - cloud\_user

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ sudo apt-get update

Hit:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal InRelease

Hit:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease

Hit:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease

Hit:4 https://download.docker.com/linux/ubuntu focal InRelease

Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease

Reading package lists... Done

cloud\_user@c0cc00ba421c:~$ sudo apt-get install ./docker-desktop-<version>-<arch>.deb

-bash: version: No such file or directory

cloud\_user@c0cc00ba421c:~$ systemctl --user start docker-desktop

Failed to connect to bus: No such file or directory

cloud\_user@c0cc00ba421c:~$ systemctl docker-desktop status

Unknown operation docker-desktop.

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ systemctl status docker

● docker.service - Docker Application Container Engine

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

Active: active (running) since Mon 2022-08-01 06:29:20 UTC; 4min 36s ago

TriggeredBy: ● docker.socket

Docs: https://docs.docker.com

Main PID: 5890 (dockerd)

Tasks: 9

Memory: 33.1M

CGroup: /system.slice/docker.service

└─5890 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ systemctl status docker-desktop

Unit docker-desktop.service could not be found.

cloud\_user@c0cc00ba421c:~$ ~

-bash: /home/cloud\_user: Is a directory

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ docker version

Client: Docker Engine - Community

Version: 20.10.16

API version: 1.41

Go version: go1.17.10

Git commit: aa7e414

Built: Thu May 12 09:17:23 2022

OS/Arch: linux/amd64

Context: default

Experimental: true

Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ sudo apt-get install ./docker-desktop-4.11.0-amd64.deb

Reading package lists... Done

E: Unsupported file ./docker-desktop-4.11.0-amd64.deb given on commandline

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ cd /home/user/Downloads/

-bash: cd: /home/user/Downloads/: No such file or directory

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ cd /home/user

-bash: cd: /home/user: No such file or directory

cloud\_user@c0cc00ba421c:~$ cd /home/

cloud\_user@c0cc00ba421c:/home$ ls -lrt

total 4

drwxr-xr-x 17 cloud\_user cloud\_user 4096 Aug 1 06:13 cloud\_user

cloud\_user@c0cc00ba421c:/home$

cloud\_user@c0cc00ba421c:/home$

cloud\_user@c0cc00ba421c:/home$ cd cloud\_user/

cloud\_user@c0cc00ba421c:~$ ls -ltr

total 25972

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Videos

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Templates

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Public

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Pictures

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Music

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Downloads

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Documents

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Desktop

-rw-rw-r-- 1 cloud\_user cloud\_user 26558662 Aug 1 06:13 minikube\_latest\_amd64.deb

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ cd Do

-bash: cd: Do: No such file or directory

cloud\_user@c0cc00ba421c:~$ cd Downloads/

cloud\_user@c0cc00ba421c:~/Downloads$ ls -lrt

total 0

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ ls -lrt

total 386360

-rw-rw-r-- 1 cloud\_user cloud\_user 395626804 Aug 1 06:35 docker-desktop-4.11.0-amd64.deb

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ cd ~

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ pwd

/home/cloud\_user

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ sudo apt-get install ./docker-desktop-4.11.0-amd64.deb

Reading package lists... Done

E: Unsupported file ./docker-desktop-4.11.0-amd64.deb given on commandline

cloud\_user@c0cc00ba421c:~$ ls -lrt

total 25972

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Videos

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Templates

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Public

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Pictures

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Music

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Documents

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Desktop

-rw-rw-r-- 1 cloud\_user cloud\_user 26558662 Aug 1 06:13 minikube\_latest\_amd64.deb

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Aug 1 06:44 Downloads

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ cd Downloads/

cloud\_user@c0cc00ba421c:~/Downloads$ ls -lrt

total 386360

-rw-rw-r-- 1 cloud\_user cloud\_user 395626804 Aug 1 06:35 docker-desktop-4.11.0-amd64.deb

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ sudo apt-get install ./docker-desktop-4.11.0-amd64.deb

Reading package lists... Done

Building dependency tree

Reading state information... Done

Note, selecting 'docker-desktop' instead of './docker-desktop-4.11.0-amd64.deb'

The following additional packages will be installed:

cpu-checker ibverbs-providers ipxe-qemu ipxe-qemu-256k-compat-efi-roms libboost-iostreams1.71.0 libbrlapi0.7 libcacard0 libfdt1 libibverbs1 libiscsi7

libpmem1 librados2 librbd1 librdmacm1 libslirp0 libspice-server1 libusbredirparser1 libvirglrenderer1 msr-tools ovmf pass qemu-block-extra

qemu-system-common qemu-system-data qemu-system-gui qemu-system-x86 qemu-utils qrencode seabios sharutils tree uidmap xclip

Suggested packages:

gstreamer1.0-plugins-ugly python libxml-simple-perl ruby samba vde2 debootstrap sharutils-doc bsd-mailx | mailx

The following NEW packages will be installed:

cpu-checker docker-desktop ibverbs-providers ipxe-qemu ipxe-qemu-256k-compat-efi-roms libboost-iostreams1.71.0 libbrlapi0.7 libcacard0 libfdt1

libibverbs1 libiscsi7 libpmem1 librados2 librbd1 librdmacm1 libslirp0 libspice-server1 libusbredirparser1 libvirglrenderer1 msr-tools ovmf pass

qemu-block-extra qemu-system-common qemu-system-data qemu-system-gui qemu-system-x86 qemu-utils qrencode seabios sharutils tree uidmap xclip

0 upgraded, 34 newly installed, 0 to remove and 7 not upgraded.

Need to get 20.0 MB/416 MB of archives.

After this operation, 85.3 MB of additional disk space will be used.

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

Get:1 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libbrlapi0.7 amd64 6.0+dfsg-4ubuntu6 [22.1 kB]

Get:2 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libcacard0 amd64 1:2.6.1-1 [32.4 kB]

Get:3 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libfdt1 amd64 1.5.1-1 [18.8 kB]

Get:4 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libibverbs1 amd64 28.0-1ubuntu1 [53.6 kB]

Get:5 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libpmem1 amd64 1.8-1ubuntu1 [63.8 kB]

Get:6 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 librdmacm1 amd64 28.0-1ubuntu1 [64.9 kB]

Get:7 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libslirp0 amd64 4.1.0-2ubuntu2.2 [54.4 kB]

Get:8 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libspice-server1 amd64 0.14.2-4ubuntu3.1 [343 kB]

Get:9 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libusbredirparser1 amd64 0.8.0-1 [14.1 kB]

Get:10 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 libvirglrenderer1 amd64 0.8.2-1ubuntu1.1 [163 kB]

Get:11 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libiscsi7 amd64 1.18.0-2 [63.9 kB]

Get:12 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libboost-iostreams1.71.0 amd64 1.71.0-6ubuntu6 [237 kB]

Get:13 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 librados2 amd64 15.2.16-0ubuntu0.20.04.1 [3214 kB]

Get:14 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 librbd1 amd64 15.2.16-0ubuntu0.20.04.1 [1623 kB]

Get:15 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 qemu-block-extra amd64 1:4.2-3ubuntu6.23 [54.9 kB]

Get:16 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 qemu-system-common amd64 1:4.2-3ubuntu6.23 [1057 kB]

Get:17 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 qemu-system-data all 1:4.2-3ubuntu6.23 [563 kB]

Get:18 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 ipxe-qemu-256k-compat-efi-roms all 1.0.0+git-20150424.a25a16d-0ubuntu4 [552 kB]

Get:19 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 seabios all 1.13.0-1ubuntu1.1 [138 kB]

Get:20 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 ipxe-qemu all 1.0.0+git-20190109.133f4c4-0ubuntu3.2 [930 kB]

Get:21 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 qemu-system-x86 amd64 1:4.2-3ubuntu6.23 [6731 kB]

Get:22 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 tree amd64 1.8.0-1 [43.0 kB]

Get:23 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 pass all 1.7.3-2 [37.6 kB]

Get:24 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 uidmap amd64 1:4.8.1-1ubuntu5.20.04.2 [26.0 kB]

Get:25 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 msr-tools amd64 1.3-3 [10.0 kB]

Get:26 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 cpu-checker amd64 0.7-1.1 [6936 B]

Get:27 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 ibverbs-providers amd64 28.0-1ubuntu1 [232 kB]

Get:28 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 qemu-system-gui amd64 1:4.2-3ubuntu6.23 [40.7 kB]

Get:29 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 qemu-utils amd64 1:4.2-3ubuntu6.23 [968 kB]

Get:30 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 qrencode amd64 4.0.2-2 [24.0 kB]

Get:31 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 sharutils amd64 1:4.15.2-4build1 [155 kB]

Get:32 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 xclip amd64 0.13-1 [18.4 kB]

Get:33 http://us-west-2.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 ovmf all 0~20191122.bd85bf54-2ubuntu3.3 [2490 kB]

Get:34 /home/cloud\_user/Downloads/docker-desktop-4.11.0-amd64.deb docker-desktop amd64 4.11.0-83626 [396 MB]

Fetched 20.0 MB in 24s (836 kB/s)

Extracting templates from packages: 100%

Selecting previously unselected package libbrlapi0.7:amd64.

(Reading database ... 195010 files and directories currently installed.)

Preparing to unpack .../00-libbrlapi0.7\_6.0+dfsg-4ubuntu6\_amd64.deb ...

Unpacking libbrlapi0.7:amd64 (6.0+dfsg-4ubuntu6) ...

Selecting previously unselected package libcacard0:amd64.

Preparing to unpack .../01-libcacard0\_1%3a2.6.1-1\_amd64.deb ...

Unpacking libcacard0:amd64 (1:2.6.1-1) ...

Selecting previously unselected package libfdt1:amd64.

Preparing to unpack .../02-libfdt1\_1.5.1-1\_amd64.deb ...

Unpacking libfdt1:amd64 (1.5.1-1) ...

Selecting previously unselected package libibverbs1:amd64.

Preparing to unpack .../03-libibverbs1\_28.0-1ubuntu1\_amd64.deb ...

Unpacking libibverbs1:amd64 (28.0-1ubuntu1) ...

Selecting previously unselected package libpmem1:amd64.

Preparing to unpack .../04-libpmem1\_1.8-1ubuntu1\_amd64.deb ...

Unpacking libpmem1:amd64 (1.8-1ubuntu1) ...

Selecting previously unselected package librdmacm1:amd64.

Preparing to unpack .../05-librdmacm1\_28.0-1ubuntu1\_amd64.deb ...

Unpacking librdmacm1:amd64 (28.0-1ubuntu1) ...

Selecting previously unselected package libslirp0:amd64.

Preparing to unpack .../06-libslirp0\_4.1.0-2ubuntu2.2\_amd64.deb ...

Unpacking libslirp0:amd64 (4.1.0-2ubuntu2.2) ...

Selecting previously unselected package libspice-server1:amd64.

Preparing to unpack .../07-libspice-server1\_0.14.2-4ubuntu3.1\_amd64.deb ...

Unpacking libspice-server1:amd64 (0.14.2-4ubuntu3.1) ...

Selecting previously unselected package libusbredirparser1:amd64.

Preparing to unpack .../08-libusbredirparser1\_0.8.0-1\_amd64.deb ...

Unpacking libusbredirparser1:amd64 (0.8.0-1) ...

Selecting previously unselected package libvirglrenderer1:amd64.

Preparing to unpack .../09-libvirglrenderer1\_0.8.2-1ubuntu1.1\_amd64.deb ...

Unpacking libvirglrenderer1:amd64 (0.8.2-1ubuntu1.1) ...

Selecting previously unselected package libiscsi7:amd64.

Preparing to unpack .../10-libiscsi7\_1.18.0-2\_amd64.deb ...

Unpacking libiscsi7:amd64 (1.18.0-2) ...

Selecting previously unselected package libboost-iostreams1.71.0:amd64.

Preparing to unpack .../11-libboost-iostreams1.71.0\_1.71.0-6ubuntu6\_amd64.deb ...

Unpacking libboost-iostreams1.71.0:amd64 (1.71.0-6ubuntu6) ...

Selecting previously unselected package librados2.

Preparing to unpack .../12-librados2\_15.2.16-0ubuntu0.20.04.1\_amd64.deb ...

Unpacking librados2 (15.2.16-0ubuntu0.20.04.1) ...

Selecting previously unselected package librbd1.

Preparing to unpack .../13-librbd1\_15.2.16-0ubuntu0.20.04.1\_amd64.deb ...

Unpacking librbd1 (15.2.16-0ubuntu0.20.04.1) ...

Selecting previously unselected package qemu-block-extra:amd64.

Preparing to unpack .../14-qemu-block-extra\_1%3a4.2-3ubuntu6.23\_amd64.deb ...

Unpacking qemu-block-extra:amd64 (1:4.2-3ubuntu6.23) ...

Selecting previously unselected package qemu-system-common.

Preparing to unpack .../15-qemu-system-common\_1%3a4.2-3ubuntu6.23\_amd64.deb ...

Unpacking qemu-system-common (1:4.2-3ubuntu6.23) ...

Selecting previously unselected package qemu-system-data.

Preparing to unpack .../16-qemu-system-data\_1%3a4.2-3ubuntu6.23\_all.deb ...

Unpacking qemu-system-data (1:4.2-3ubuntu6.23) ...

Selecting previously unselected package ipxe-qemu-256k-compat-efi-roms.

Preparing to unpack .../17-ipxe-qemu-256k-compat-efi-roms\_1.0.0+git-20150424.a25a16d-0ubuntu4\_all.deb ...

Unpacking ipxe-qemu-256k-compat-efi-roms (1.0.0+git-20150424.a25a16d-0ubuntu4) ...

Selecting previously unselected package seabios.

Preparing to unpack .../18-seabios\_1.13.0-1ubuntu1.1\_all.deb ...

Unpacking seabios (1.13.0-1ubuntu1.1) ...

Selecting previously unselected package ipxe-qemu.

Preparing to unpack .../19-ipxe-qemu\_1.0.0+git-20190109.133f4c4-0ubuntu3.2\_all.deb ...

Unpacking ipxe-qemu (1.0.0+git-20190109.133f4c4-0ubuntu3.2) ...

Selecting previously unselected package qemu-system-x86.

Preparing to unpack .../20-qemu-system-x86\_1%3a4.2-3ubuntu6.23\_amd64.deb ...

Unpacking qemu-system-x86 (1:4.2-3ubuntu6.23) ...

Selecting previously unselected package tree.

Preparing to unpack .../21-tree\_1.8.0-1\_amd64.deb ...

Unpacking tree (1.8.0-1) ...

Selecting previously unselected package pass.

Preparing to unpack .../22-pass\_1.7.3-2\_all.deb ...

Unpacking pass (1.7.3-2) ...

Selecting previously unselected package uidmap.

Preparing to unpack .../23-uidmap\_1%3a4.8.1-1ubuntu5.20.04.2\_amd64.deb ...

Unpacking uidmap (1:4.8.1-1ubuntu5.20.04.2) ...

Selecting previously unselected package docker-desktop.

Preparing to unpack .../24-docker-desktop-4.11.0-amd64.deb ...

Unpacking docker-desktop (4.11.0-83626) ...

Selecting previously unselected package msr-tools.

Preparing to unpack .../25-msr-tools\_1.3-3\_amd64.deb ...

Unpacking msr-tools (1.3-3) ...

Selecting previously unselected package cpu-checker.

Preparing to unpack .../26-cpu-checker\_0.7-1.1\_amd64.deb ...

Unpacking cpu-checker (0.7-1.1) ...

Selecting previously unselected package ibverbs-providers:amd64.

Preparing to unpack .../27-ibverbs-providers\_28.0-1ubuntu1\_amd64.deb ...

Unpacking ibverbs-providers:amd64 (28.0-1ubuntu1) ...

Selecting previously unselected package qemu-system-gui:amd64.

Preparing to unpack .../28-qemu-system-gui\_1%3a4.2-3ubuntu6.23\_amd64.deb ...

Unpacking qemu-system-gui:amd64 (1:4.2-3ubuntu6.23) ...

Selecting previously unselected package qemu-utils.

Preparing to unpack .../29-qemu-utils\_1%3a4.2-3ubuntu6.23\_amd64.deb ...

Unpacking qemu-utils (1:4.2-3ubuntu6.23) ...

Selecting previously unselected package qrencode.

Preparing to unpack .../30-qrencode\_4.0.2-2\_amd64.deb ...

Unpacking qrencode (4.0.2-2) ...

Selecting previously unselected package sharutils.

Preparing to unpack .../31-sharutils\_1%3a4.15.2-4build1\_amd64.deb ...

Unpacking sharutils (1:4.15.2-4build1) ...

Selecting previously unselected package xclip.

Preparing to unpack .../32-xclip\_0.13-1\_amd64.deb ...

Unpacking xclip (0.13-1) ...

Selecting previously unselected package ovmf.

Preparing to unpack .../33-ovmf\_0~20191122.bd85bf54-2ubuntu3.3\_all.deb ...

Unpacking ovmf (0~20191122.bd85bf54-2ubuntu3.3) ...

Setting up libbrlapi0.7:amd64 (6.0+dfsg-4ubuntu6) ...

Setting up libibverbs1:amd64 (28.0-1ubuntu1) ...

Setting up ibverbs-providers:amd64 (28.0-1ubuntu1) ...

Setting up qrencode (4.0.2-2) ...

Setting up qemu-system-gui:amd64 (1:4.2-3ubuntu6.23) ...

Setting up uidmap (1:4.8.1-1ubuntu5.20.04.2) ...

Setting up libspice-server1:amd64 (0.14.2-4ubuntu3.1) ...

Setting up msr-tools (1.3-3) ...

Setting up libfdt1:amd64 (1.5.1-1) ...

Setting up libusbredirparser1:amd64 (0.8.0-1) ...

Setting up libboost-iostreams1.71.0:amd64 (1.71.0-6ubuntu6) ...

Setting up libcacard0:amd64 (1:2.6.1-1) ...

Setting up ovmf (0~20191122.bd85bf54-2ubuntu3.3) ...

Setting up libvirglrenderer1:amd64 (0.8.2-1ubuntu1.1) ...

Setting up tree (1.8.0-1) ...

Setting up xclip (0.13-1) ...

Setting up pass (1.7.3-2) ...

Setting up qemu-system-data (1:4.2-3ubuntu6.23) ...

Setting up seabios (1.13.0-1ubuntu1.1) ...

Setting up libslirp0:amd64 (4.1.0-2ubuntu2.2) ...

Setting up cpu-checker (0.7-1.1) ...

Setting up ipxe-qemu (1.0.0+git-20190109.133f4c4-0ubuntu3.2) ...

Setting up ipxe-qemu-256k-compat-efi-roms (1.0.0+git-20150424.a25a16d-0ubuntu4) ...

Setting up sharutils (1:4.15.2-4build1) ...

Setting up libpmem1:amd64 (1.8-1ubuntu1) ...

Setting up librdmacm1:amd64 (28.0-1ubuntu1) ...

Setting up librados2 (15.2.16-0ubuntu0.20.04.1) ...

Setting up librbd1 (15.2.16-0ubuntu0.20.04.1) ...

Setting up libiscsi7:amd64 (1.18.0-2) ...

Setting up qemu-block-extra:amd64 (1:4.2-3ubuntu6.23) ...

Setting up qemu-system-common (1:4.2-3ubuntu6.23) ...

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

Setting up qemu-system-x86 (1:4.2-3ubuntu6.23) ...

Setting up docker-desktop (4.11.0-83626) ...

Enabling use of privileged ports by Docker Desktop

kubernetes.docker.internal added to /etc/hosts

Reloading systemd daemon for logged in users

Cannot access user instance remotely.

Cannot access user instance remotely.

Done reloading systemd daemon for logged in users

Setting up qemu-utils (1:4.2-3ubuntu6.23) ...

Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...

Processing triggers for mime-support (3.64ubuntu1) ...

Processing triggers for hicolor-icon-theme (0.17-2) ...

Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...

Processing triggers for libc-bin (2.31-0ubuntu9.9) ...

Processing triggers for man-db (2.9.1-1) ...

Processing triggers for install-info (6.7.0.dfsg.2-5) ...

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ systemctl --user start docker-desktop

Failed to connect to bus: No such file or directory

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ systemctl start docker-desktop

==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ===

Authentication is required to start 'docker-desktop.service'.

Authenticating as: cloud\_user

Password:

==== AUTHENTICATION COMPLETE ===

Failed to start docker-desktop.service: Unit docker-desktop.service not found.

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ docker compose version

^C

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$

cloud\_user@c0cc00ba421c:~/Downloads$ cd ~

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ docker compose version

Docker Compose version v2.7.0

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ docker --version

Docker version 20.10.16, build aa7e414

cloud\_user@c0cc00ba421c:~$ minikube start --driver=docker

\* minikube v1.26.0 on Ubuntu 20.04

\* Using the docker driver based on user configuration

X Exiting due to PROVIDER\_DOCKER\_NEWGRP: "docker version --format -" exit status 1: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/version": dial unix /var/run/docker.sock: connect: permission denied

\* Suggestion: Add your user to the 'docker' group: 'sudo usermod -aG docker $USER && newgrp docker'

\* Documentation: https://docs.docker.com/engine/install/linux-postinstall/

cloud\_user@c0cc00ba421c:~$ sudo usermod -aG docker cloud\_user && newgrp docker

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ minikube start --driver=docker

\* minikube v1.26.0 on Ubuntu 20.04

\* Using the docker driver based on user configuration

X The requested memory allocation of 1945MiB does not leave room for system overhead (total system memory: 1945MiB). You may face stability issues.

\* Suggestion: Start minikube with less memory allocated: 'minikube start --memory=1945mb'

\* Using Docker driver with root privileges

\* Starting control plane node minikube in cluster minikube

\* Pulling base image ...

\* Downloading Kubernetes v1.24.1 preload ...

> preloaded-images-k8s-v18-v1...: 405.83 MiB / 405.83 MiB 100.00% 58.64 Mi

> gcr.io/k8s-minikube/kicbase: 386.00 MiB / 386.00 MiB 100.00% 22.09 MiB p

> gcr.io/k8s-minikube/kicbase: 0 B [\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_] ?% ? p/s 11s

\* Creating docker container (CPUs=2, Memory=1945MB) ...

\* Preparing Kubernetes v1.24.1 on Docker 20.10.17 ...

- Generating certificates and keys ...

- Booting up control plane ...

- Configuring RBAC rules ...

\* Verifying Kubernetes components...

- Using image gcr.io/k8s-minikube/storage-provisioner:v5

! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 14.339082334s

\* Restarting the docker service may improve performance.

\* Enabled addons: storage-provisioner, default-storageclass

\* kubectl not found. If you need it, try: 'minikube kubectl -- get pods -A'

\* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

cloud\_user@c0cc00ba421c:~$ minikube status

! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 13.495701361s

\* Restarting the docker service may improve performance.

minikube

type: Control Plane

host: Running

kubelet: Running

apiserver: Running

kubeconfig: Configured

cloud\_user@c0cc00ba421c:~$ kubectl get po -A

Command 'kubectl' not found, but can be installed with:

sudo snap install kubectl

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ minikube kubectl -- get po -A

> kubectl.sha256: 64 B / 64 B [--------------------------] 100.00% ? p/s 0s

> kubectl: 43.59 MiB / 43.59 MiB [------------] 100.00% 61.55 MiB p/s 900ms

NAMESPACE NAME READY STATUS RESTARTS AGE

kube-system coredns-6d4b75cb6d-vwg4h 1/1 Running 0 4m30s

kube-system etcd-minikube 1/1 Running 0 4m40s

kube-system kube-apiserver-minikube 1/1 Running 0 4m40s

kube-system kube-controller-manager-minikube 1/1 Running 0 4m40s

kube-system kube-proxy-8xrwk 1/1 Running 0 4m30s

kube-system kube-scheduler-minikube 1/1 Running 0 4m40s

kube-system storage-provisioner 1/1 Running 0 3m45s

cloud\_user@c0cc00ba421c:~$ minikube dashboard

! Executing "docker container inspect minikube --format={{.State.Status}}" took an unusually long time: 12.007776307s

\* Restarting the docker service may improve performance.

\* Enabling dashboard ...

- Using image kubernetesui/dashboard:v2.6.0

- Using image kubernetesui/metrics-scraper:v1.0.8

\* Verifying dashboard health ...

\* Launching proxy ...

\* Verifying proxy health ...

cloud\_user@c0cc00ba421c:~$ minikube kubectl get nodes

NAME STATUS ROLES AGE VERSION

minikube Ready control-plane 18m v1.24.1

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ ls -lrt

total 25972

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Videos

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Templates

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Public

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Pictures

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Music

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Documents

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Desktop

-rw-rw-r-- 1 cloud\_user cloud\_user 26558662 Aug 1 06:13 minikube\_latest\_amd64.deb

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Aug 1 06:44 Downloads

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ pwd

/home/cloud\_user

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ vi mongo-config.yaml

**cloud\_user@c0cc00ba421c:~$ cat mongo-config.yaml**

**apiVersion: v1**

**kind: ConfigMap**

**metadata:**

**name: mongo-config**

**data:**

**mongo-url: mongo-service**

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ vi mongo-secret.yaml

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ echo -n mongouser | base64 **[To encrypt the username and password ]**

bW9uZ291c2Vy

cloud\_user@c0cc00ba421c:~$ echo -n mongopassword | base64

bW9uZ29wYXNzd29yZA==

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ vi mongo-secret.yaml

**cloud\_user@c0cc00ba421c:~$ cat mongo-secret.yaml**

**apiVersion: v1**

**kind: Secret**

**metadata:**

**name: mongo-secret**

**type: Opaque**

**data:**

**mongo-user: bW9uZ291c2Vy**

**mongo-password: bW9uZ29wYXNzd29yZA==**

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$

cloud\_user@c0cc00ba421c:~$ ls -lrt

total 25980

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Videos

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Templates

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Public

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Pictures

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Music

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Documents

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Apr 29 2020 Desktop

-rw-rw-r-- 1 cloud\_user cloud\_user 26558662 Aug 1 06:13 minikube\_latest\_amd64.deb

drwxr-xr-x 2 cloud\_user cloud\_user 4096 Aug 1 06:44 Downloads

**-rw-rw-r-- 1 cloud\_user docker 95 Aug 1 07:31 mongo-config.yaml**

**-rw-rw-r-- 1 cloud\_user docker 144 Aug 1 07:38 mongo-secret.yaml**

cloud\_user@c0cc00ba421c:~$

**cloud\_user@c0cc00ba421c:~$ cat mongo.yaml**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: mongo-deployment**

**labels:**

**app: mongo**

**spec:**

**replicas: 1**

**selector:**

**matchLabels:**

**app: mongo**

**template:**

**metadata:**

**labels:**

**app: mongo**

**spec:**

**containers:**

**- name: mongodb**

**image: mongo:5.0**

**ports:**

**- containerPort: 27017**

**---**

**apiVersion: v1**

**kind: Service**

**metadata:**

**name: mongo-service**

**spec:**

**selector:**

**app: mongo**

**ports:**

**- protocol: TCP**

**port: 27017**

**targetPort: 27017**

cloud\_user@c0cc00ba421c:~$

**cloud\_user@c0cc00ba421c:~$ cat webapp.yaml**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: webapp-deployment**

**labels:**

**app: webapp**

**spec:**

**replicas: 1**

**selector:**

**matchLabels:**

**app: webapp**

**template:**

**metadata:**

**labels:**

**app: webapp**

**spec:**

**containers:**

**- name: webapp**

**image: nanajanashia/k8s-demo-app:v1.0**

**ports:**

**- containerPort: 3000**

**---**

**apiVersion: v1**

**kind: Service**

**metadata:**

**name: webapp-service**

**spec:**

**selector:**

**app: webapp**

**ports:**

**- protocol: TCP**

**port: 3000**

**targetPort: 3000**

**cloud\_user@c0cc00ba421c:~$**

**FINAL webapp.yaml file**

**cloud\_user@c0cc00ba421c:~$ cat webapp.yaml**

**apiVersion: apps/v1**

**kind: Deployment**

**metadata:**

**name: webapp-deployment**

**labels:**

**app: webapp**

**spec:**

**replicas: 1**

**selector:**

**matchLabels:**

**app: webapp**

**template:**

**metadata:**

**labels:**

**app: webapp**

**spec:**

**containers:**

**- name: webapp**

**image: nanajanashia/k8s-demo-app:v1.0**

**ports:**

**- containerPort: 3000**

**env:**

**- name: USER\_NAME**

**valueFrom:**

**secretKeyRef:**

**name: mongo-secret**

**key: mongo-user**

**- name: USER\_PWD**

**valueFrom:**

**secretKeyRef:**

**name: mongo-secret**

**key: mongo-password**

**- name: DB\_URL**

**valueFrom:**

**configMapKeyRef:**

**name: mongo-config**

**key: mongo-url**

**---**

**apiVersion: v1**

**kind: Service**

**metadata:**

**name: webapp-service**

**spec:**

**type: NodePort**

**selector:**

**app: webapp**

**ports:**

**- protocol: TCP**

**port: 3000**

**targetPort: 3000**

**nodePort: 30100**

**cloud\_user@c0cc00ba421c:~$**

**9 curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"**

**10 curl -LO "https://dl.k8s.io/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl.sha256"**

**11 echo "$(cat kubectl.sha256) kubectl" | sha256sum --check**

**12 sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl**

**13 kubectl version --client**

**14 kubectl version --short**

**15 sudo apt-get update**

**16 sudo apt-get install -y kubectl**

**17 kubectl apply -f mongo-config.yaml**

**18 kubectl apply -f mongo-secret.yaml**

**19 ls -lrt**

**20 kubectl apply -f mongo.yaml**

**21 kubectl apply -f webapp.yaml**

**22 kubectl get all**