root@ip-172-31-25-8:~# sudo apt

apt 2.0.10 (amd64)

Usage: apt [options] command

apt is a commandline package manager and provides commands for

searching and managing as well as querying information about packages.

It provides the same functionality as the specialized APT tools,

like apt-get and apt-cache, but enables options more suitable for

interactive use by default.

Most used commands:

list - list packages based on package names

search - search in package descriptions

show - show package details

install - install packages

reinstall - reinstall packages

remove - remove packages

autoremove - Remove automatically all unused packages

update - update list of available packages

upgrade - upgrade the system by installing/upgrading packages

full-upgrade - upgrade the system by removing/installing/upgrading packages

edit-sources - edit the source information file

satisfy - satisfy dependency strings

See apt(8) for more information about the available commands.

Configuration options and syntax is detailed in apt.conf(5).

Information about how to configure sources can be found in sources.list(5).

Package and version choices can be expressed via apt\_preferences(5).

Security details are available in apt-secure(8).

This APT has Super Cow Powers.

root@ip-172-31-25-8:~# sudo apt update

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

Get:2 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]

Hit:3 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease

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

Fetched 114 kB in 1s (159 kB/s)

Reading package lists... Done

Building dependency tree

Reading state information... Done

4 packages can be upgraded. Run 'apt list --upgradable' to see them.

root@ip-172-31-25-8:~# apt install apt-transport-https ca-certificates curl software-properties-common -y

Reading package lists... Done

Building dependency tree

Reading state information... Done

ca-certificates is already the newest version (20230311ubuntu0.20.04.1).

ca-certificates set to manually installed.

curl is already the newest version (7.68.0-1ubuntu2.21).

curl set to manually installed.

software-properties-common is already the newest version (0.99.9.12).

software-properties-common set to manually installed.

The following NEW packages will be installed:

apt-transport-https

0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.

Need to get 1704 B of archives.

After this operation, 162 kB of additional disk space will be used.

Get:1 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 apt-transport-https all 2.0.10 [1704 B]

Fetched 1704 B in 0s (111 kB/s)

Selecting previously unselected package apt-transport-https.

(Reading database ... 64758 files and directories currently installed.)

Preparing to unpack .../apt-transport-https\_2.0.10\_all.deb ...

Unpacking apt-transport-https (2.0.10) ...

Setting up apt-transport-https (2.0.10) ...

root@ip-172-31-25-8:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -Copied!

gpg: invalid option "-Copied!"

root@ip-172-31-25-8:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

OK

root@ip-172-31-25-8:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb\_release -cs) stable"

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

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

Hit:3 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease

Get:4 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]

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

Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [38.0 kB]

Fetched 95.6 kB in 1s (112 kB/s)

Reading package lists... Done

root@ip-172-31-25-8:~# apt-cache policy docker-ce

docker-ce:

Installed: (none)

Candidate: 5:25.0.3-1~ubuntu.20.04~focal

Version table:

5:25.0.3-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:25.0.2-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:25.0.1-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:25.0.0-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.9-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.8-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.7-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.6-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.5-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.4-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.3-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.2-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.1-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.0-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.6-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.5-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.4-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.3-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.2-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.1-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.0-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.24~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.23~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.22~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.21~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.20~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.19~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.18~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.17~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.16~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.15~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.14~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.13~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.12~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.11~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.10~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.9~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.8~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.7~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.6~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.5~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.4~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.3~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.2~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.1~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.0~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.15~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.14~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.13~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.12~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.11~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.10~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.9~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

root@ip-172-31-25-8:~# apt install docker-ce -y

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following additional packages will be installed:

containerd.io docker-buildx-plugin docker-ce-cli docker-ce-rootless-extras docker-compose-plugin pigz slirp4netns

Suggested packages:

aufs-tools cgroupfs-mount | cgroup-lite

The following NEW packages will be installed:

containerd.io docker-buildx-plugin docker-ce docker-ce-cli docker-ce-rootless-extras docker-compose-plugin pigz slirp4netns

0 upgraded, 8 newly installed, 0 to remove and 4 not upgraded.

Need to get 117 MB of archives.

After this operation, 420 MB of additional disk space will be used.

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

Get:2 http://eu-west-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 slirp4netns amd64 0.4.3-1 [74.3 kB]

Get:3 https://download.docker.com/linux/ubuntu focal/stable amd64 containerd.io amd64 1.6.28-1 [29.6 MB]

Get:4 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-buildx-plugin amd64 0.12.1-1~ubuntu.20.04~focal [28.2 MB]

Get:5 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-cli amd64 5:25.0.3-1~ubuntu.20.04~focal [13.7 MB]

Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:25.0.3-1~ubuntu.20.04~focal [24.3 MB]

Get:7 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce-rootless-extras amd64 5:25.0.3-1~ubuntu.20.04~focal [9324 kB]

Get:8 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-compose-plugin amd64 2.24.6-1~ubuntu.20.04~focal [12.1 MB]

Fetched 117 MB in 2s (58.5 MB/s)

Selecting previously unselected package pigz.

(Reading database ... 64762 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\_1.6.28-1\_amd64.deb ...

Unpacking containerd.io (1.6.28-1) ...

Selecting previously unselected package docker-buildx-plugin.

Preparing to unpack .../2-docker-buildx-plugin\_0.12.1-1~ubuntu.20.04~focal\_amd64.deb ...

Unpacking docker-buildx-plugin (0.12.1-1~ubuntu.20.04~focal) ...

Selecting previously unselected package docker-ce-cli.

Preparing to unpack .../3-docker-ce-cli\_5%3a25.0.3-1~ubuntu.20.04~focal\_amd64.deb ...

Unpacking docker-ce-cli (5:25.0.3-1~ubuntu.20.04~focal) ...

Selecting previously unselected package docker-ce.

Preparing to unpack .../4-docker-ce\_5%3a25.0.3-1~ubuntu.20.04~focal\_amd64.deb ...

Unpacking docker-ce (5:25.0.3-1~ubuntu.20.04~focal) ...

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

Preparing to unpack .../5-docker-ce-rootless-extras\_5%3a25.0.3-1~ubuntu.20.04~focal\_amd64.deb ...

Unpacking docker-ce-rootless-extras (5:25.0.3-1~ubuntu.20.04~focal) ...

Selecting previously unselected package docker-compose-plugin.

Preparing to unpack .../6-docker-compose-plugin\_2.24.6-1~ubuntu.20.04~focal\_amd64.deb ...

Unpacking docker-compose-plugin (2.24.6-1~ubuntu.20.04~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-buildx-plugin (0.12.1-1~ubuntu.20.04~focal) ...

Setting up containerd.io (1.6.28-1) ...

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

Setting up docker-compose-plugin (2.24.6-1~ubuntu.20.04~focal) ...

Setting up docker-ce-cli (5:25.0.3-1~ubuntu.20.04~focal) ...

Setting up pigz (2.4-1) ...

Setting up docker-ce-rootless-extras (5:25.0.3-1~ubuntu.20.04~focal) ...

Setting up docker-ce (5:25.0.3-1~ubuntu.20.04~focal) ...

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

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

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

Processing triggers for systemd (245.4-4ubuntu3.23) ...

root@ip-172-31-25-8:~# systemctl status docker

● docker.service - Docker Application Container Engine

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

Active: active (running) since Wed 2024-03-06 08:31:35 UTC; 28s ago

TriggeredBy: ● docker.socket

Docs: https://docs.docker.com

Main PID: 8172 (dockerd)

Tasks: 8

Memory: 38.4M

CGroup: /system.slice/docker.service

└─8172 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Mar 06 08:31:35 ip-172-31-25-8 systemd[1]: Starting Docker Application Container Engine...

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.104368889Z" level=info msg="Starting up"

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.106640534Z" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved, so using resolv.conf: /ru>

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.298903643Z" level=info msg="Loading containers: start."

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.660220538Z" level=info msg="Loading containers: done."

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.710490902Z" level=info msg="Docker daemon" commit=f417435 containerd-snapshotter=false storage-driver=overlay2 v>

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.710603458Z" level=info msg="Daemon has completed initialization"

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.812136197Z" level=info msg="API listen on /run/docker.sock"

Mar 06 08:31:35 ip-172-31-25-8 systemd[1]: Started Docker Application Container Engine.

lines 1-20/20 (END)

[1]+ Stopped systemctl status docker

root@ip-172-31-25-8:~# apt update

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

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

Hit:3 http://eu-west-1.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

Building dependency tree

Reading state information... Done

4 packages can be upgraded. Run 'apt list --upgradable' to see them.

root@ip-172-31-25-8:~# apt install docker.io -y

Reading package lists... Done

Building dependency tree

Reading state information... Done

Some packages could not be installed. This may mean that you have

requested an impossible situation or if you are using the unstable

distribution that some required packages have not yet been created

or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

docker.io : Depends: containerd (>= 1.2.6-0ubuntu1~)

E: Unable to correct problems, you have held broken packages.

root@ip-172-31-25-8:~# apt install docker.io

Reading package lists... Done

Building dependency tree

Reading state information... Done

Some packages could not be installed. This may mean that you have

requested an impossible situation or if you are using the unstable

distribution that some required packages have not yet been created

or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

docker.io : Depends: containerd (>= 1.2.6-0ubuntu1~)

E: Unable to correct problems, you have held broken packages.

root@ip-172-31-25-8:~# wget https://docs.docker.com/desktop/linux/install/?\_gl=1\*1x9f5i2\*\_ga\*MTQzODk1NzU1NS4xNzA5NzEzNzQz\*\_ga\_XJWPQMJYHQ\*MTcwOTcxMzc0Mi4xLjEuMTcwOTcxNDAxMy41My4wLjA.

--2024-03-06 08:33:50-- https://docs.docker.com/desktop/linux/install/?\_gl=1\*1x9f5i2\*\_ga\*MTQzODk1NzU1NS4xNzA5NzEzNzQz\*\_ga\_XJWPQMJYHQ\*MTcwOTcxMzc0Mi4xLjEuMTcwOTcxNDAxMy41My4wLjA.

Resolving docs.docker.com (docs.docker.com)... 18.66.171.129, 18.66.171.3, 18.66.171.44, ...

Connecting to docs.docker.com (docs.docker.com)|18.66.171.129|:443... connected.

HTTP request sent, awaiting response... 301 Moved Permanently

Location: /desktop/install/linux-install/ [following]

--2024-03-06 08:33:50-- https://docs.docker.com/desktop/install/linux-install/

Reusing existing connection to docs.docker.com:443.

HTTP request sent, awaiting response... 200 OK

Length: 238831 (233K) [text/html]

Saving to: ‘index.html?\_gl=1\*1x9f5i2\*\_ga\*MTQzODk1NzU1NS4xNzA5NzEzNzQz\*\_ga\_XJWPQMJYHQ\*MTcwOTcxMzc0Mi4xLjEuMTcwOTcxNDAxMy41My4wLjA.’

index.html?\_gl=1\*1x9f5i2\*\_ga\*MTQzODk1NzU1NS4xN 100%[=================================================================================================>] 233.23K --.-KB/s in 0.008s

2024-03-06 08:33:50 (26.9 MB/s) - ‘index.html?\_gl=1\*1x9f5i2\*\_ga\*MTQzODk1NzU1NS4xNzA5NzEzNzQz\*\_ga\_XJWPQMJYHQ\*MTcwOTcxMzc0Mi4xLjEuMTcwOTcxNDAxMy41My4wLjA.’ saved [238831/238831]

root@ip-172-31-25-8:~# ls

apache-maven-3.9.6 'index.html?\_gl=1\*1x9f5i2\*\_ga\*MTQzODk1NzU1NS4xNzA5NzEzNzQz\*\_ga\_XJWPQMJYHQ\*MTcwOTcxMzc0Mi4xLjEuMTcwOTcxNDAxMy41My4wLjA.' snap

apache-maven-3.9.6-bin.tar.gz myapp

root@ip-172-31-25-8:~# apt-cache policy docker-ce

docker-ce:

Installed: 5:25.0.3-1~ubuntu.20.04~focal

Candidate: 5:25.0.3-1~ubuntu.20.04~focal

Version table:

\*\*\* 5:25.0.3-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

100 /var/lib/dpkg/status

5:25.0.2-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:25.0.1-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:25.0.0-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.9-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.8-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.7-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.6-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.5-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.4-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.3-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.2-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.1-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:24.0.0-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.6-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.5-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.4-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.3-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.2-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.1-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:23.0.0-1~ubuntu.20.04~focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.24~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.23~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.22~3-0~ubuntu-focal 500

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5:20.10.21~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.20~3-0~ubuntu-focal 500

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5:20.10.19~3-0~ubuntu-focal 500

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5:20.10.18~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.17~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.16~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.15~3-0~ubuntu-focal 500

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5:20.10.14~3-0~ubuntu-focal 500

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5:20.10.13~3-0~ubuntu-focal 500

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5:20.10.12~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.11~3-0~ubuntu-focal 500

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5:20.10.4~3-0~ubuntu-focal 500

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5:20.10.3~3-0~ubuntu-focal 500

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5:20.10.2~3-0~ubuntu-focal 500

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5:20.10.1~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:20.10.0~3-0~ubuntu-focal 500

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5:19.03.15~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.14~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.13~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.12~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.11~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.10~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

5:19.03.9~3-0~ubuntu-focal 500

500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages

root@ip-172-31-25-8:~# apt install docker.io

Reading package lists... Done

Building dependency tree

Reading state information... Done

Some packages could not be installed. This may mean that you have

requested an impossible situation or if you are using the unstable

distribution that some required packages have not yet been created

or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

docker.io : Depends: containerd (>= 1.2.6-0ubuntu1~)

E: Unable to correct problems, you have held broken packages.

root@ip-172-31-25-8:~# sudo apt install docker.io -y

Reading package lists... Done

Building dependency tree

Reading state information... Done

Some packages could not be installed. This may mean that you have

requested an impossible situation or if you are using the unstable

distribution that some required packages have not yet been created

or been moved out of Incoming.

The following information may help to resolve the situation:

The following packages have unmet dependencies:

docker.io : Depends: containerd (>= 1.2.6-0ubuntu1~)

E: Unable to correct problems, you have held broken packages.

root@ip-172-31-25-8:~# sudo snap install docker

docker 24.0.5 from Canonical✓ installed

root@ip-172-31-25-8:~# sudo systemctl status docker

● docker.service - Docker Application Container Engine

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

Active: active (running) since Wed 2024-03-06 08:31:35 UTC; 4min 25s ago

TriggeredBy: ● docker.socket

Docs: https://docs.docker.com

Main PID: 8172 (dockerd)

Tasks: 8

Memory: 34.6M

CGroup: /system.slice/docker.service

└─8172 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Mar 06 08:31:35 ip-172-31-25-8 systemd[1]: Starting Docker Application Container Engine...

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.104368889Z" level=info msg="Starting up"

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.106640534Z" level=info msg="detected 127.0.0.53 nameserver, assuming systemd-resolved, so using resolv.conf: /ru>

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.298903643Z" level=info msg="Loading containers: start."

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.660220538Z" level=info msg="Loading containers: done."

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.710490902Z" level=info msg="Docker daemon" commit=f417435 containerd-snapshotter=false storage-driver=overlay2 v>

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.710603458Z" level=info msg="Daemon has completed initialization"

Mar 06 08:31:35 ip-172-31-25-8 dockerd[8172]: time="2024-03-06T08:31:35.812136197Z" level=info msg="API listen on /run/docker.sock"

Mar 06 08:31:35 ip-172-31-25-8 systemd[1]: Started Docker Application Container Engine.

lines 1-20/20 (END)

[2]+ Stopped sudo systemctl status docker

root@ip-172-31-25-8:~#

root@ip-172-31-25-8:~# docker --version

Docker version 25.0.3, build 4debf41

root@ip-172-31-25-8:~# docker

Usage: docker [OPTIONS] COMMAND

A self-sufficient runtime for containers

Common Commands:

run Create and run a new container from an image

exec Execute a command in a running container

ps List containers

build Build an image from a Dockerfile

pull Download an image from a registry

push Upload an image to a registry

images List images

login Log in to a registry

logout Log out from a registry

search Search Docker Hub for images

version Show the Docker version information

info Display system-wide information

Management Commands:

builder Manage builds

buildx\* Docker Buildx (Docker Inc., v0.12.1)

compose\* Docker Compose (Docker Inc., v2.24.6)

container Manage containers

context Manage contexts

image Manage images

manifest Manage Docker image manifests and manifest lists

network Manage networks

plugin Manage plugins

system Manage Docker

trust Manage trust on Docker images

volume Manage volumes

Swarm Commands:

swarm Manage Swarm

Commands:

attach Attach local standard input, output, and error streams to a running container

commit Create a new image from a container's changes

cp Copy files/folders between a container and the local filesystem

create Create a new container

diff Inspect changes to files or directories on a container's filesystem

events Get real time events from the server

export Export a container's filesystem as a tar archive

history Show the history of an image

import Import the contents from a tarball to create a filesystem image

inspect Return low-level information on Docker objects

kill Kill one or more running containers

load Load an image from a tar archive or STDIN

logs Fetch the logs of a container

pause Pause all processes within one or more containers

port List port mappings or a specific mapping for the container

rename Rename a container

restart Restart one or more containers

rm Remove one or more containers

rmi Remove one or more images

save Save one or more images to a tar archive (streamed to STDOUT by default)

start Start one or more stopped containers

stats Display a live stream of container(s) resource usage statistics

stop Stop one or more running containers

tag Create a tag TARGET\_IMAGE that refers to SOURCE\_IMAGE

top Display the running processes of a container

unpause Unpause all processes within one or more containers

update Update configuration of one or more containers

wait Block until one or more containers stop, then print their exit codes

Global Options:

--config string Location of client config files (default "/root/.docker")

-c, --context string Name of the context to use to connect to the daemon (overrides DOCKER\_HOST env var and default context set with "docker context use")

-D, --debug Enable debug mode

-H, --host list Daemon socket to connect to

-l, --log-level string Set the logging level ("debug", "info", "warn", "error", "fatal") (default "info")

--tls Use TLS; implied by --tlsverify

--tlscacert string Trust certs signed only by this CA (default "/root/.docker/ca.pem")

--tlscert string Path to TLS certificate file (default "/root/.docker/cert.pem")

--tlskey string Path to TLS key file (default "/root/.docker/key.pem")

--tlsverify Use TLS and verify the remote

-v, --version Print version information and quit

Run 'docker COMMAND --help' for more information on a command.

For more help on how to use Docker, head to https://docs.docker.com/go/guides/

root@ip-172-31-25-8:~# docker search ubuntu

NAME DESCRIPTION STARS OFFICIAL

ubuntu Ubuntu is a Debian-based Linux operating sys… 16924 [OK]

ubuntu-debootstrap DEPRECATED; use "ubuntu" instead 52 [OK]

open-liberty Open Liberty multi-architecture images based… 64 [OK]

websphere-liberty WebSphere Liberty multi-architecture images … 298 [OK]

neurodebian NeuroDebian provides neuroscience research s… 106 [OK]

ubuntu-upstart DEPRECATED, as is Upstart (find other proces… 115 [OK]

ubuntu/nginx Nginx, a high-performance reverse proxy & we… 112

ubuntu/squid Squid is a caching proxy for the Web. Long-t… 84

ubuntu/cortex Cortex provides storage for Prometheus. Long… 4

ubuntu/prometheus Prometheus is a systems and service monitori… 58

ubuntu/apache2 Apache, a secure & extensible open-source HT… 71

ubuntu/kafka Apache Kafka, a distributed event streaming … 43

ubuntu/bind9 BIND 9 is a very flexible, full-featured DNS… 76

ubuntu/zookeeper ZooKeeper maintains configuration informatio… 13

ubuntu/mysql MySQL open source fast, stable, multi-thread… 61

ubuntu/postgres PostgreSQL is an open source object-relation… 35

ubuntu/jre Distroless Java runtime based on Ubuntu. Lon… 13

ubuntu/redis Redis, an open source key-value store. Long-… 22

ubuntu/dotnet-aspnet Chiselled Ubuntu runtime image for ASP.NET a… 17

ubuntu/grafana Grafana, a feature rich metrics dashboard & … 9

ubuntu/dotnet-deps Chiselled Ubuntu for self-contained .NET & A… 13

ubuntu/memcached Memcached, in-memory keyvalue store for smal… 5

ubuntu/dotnet-runtime Chiselled Ubuntu runtime image for .NET apps… 14

ubuntu/prometheus-alertmanager Alertmanager handles client alerts from Prom… 9

ubuntu/cassandra Cassandra, an open source NoSQL distributed … 2

root@ip-172-31-25-8:~# docker pull ubuntu

Using default tag: latest

latest: Pulling from library/ubuntu

bccd10f490ab: Pull complete

Digest: sha256:77906da86b60585ce12215807090eb327e7386c8fafb5402369e421f44eff17e

Status: Downloaded newer image for ubuntu:latest

docker.io/library/ubuntu:latest

root@ip-172-31-25-8:~# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

ubuntu latest ca2b0f26964c 7 days ago 77.9MB

root@ip-172-31-25-8:~# docker run hello-world

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

latest: Pulling from library/hello-world

c1ec31eb5944: Pull complete

Digest: sha256:d000bc569937abbe195e20322a0bde6b2922d805332fd6d8a68b19f524b7d21d

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/

root@ip-172-31-25-8:~# docker run ubuntu

root@ip-172-31-25-8:~# docker run -it ubuntu

root@c74a9f8d15a9:/# docker ps

bash: docker: command not found

root@c74a9f8d15a9:/# docker ps -a

bash: docker: command not found

root@c74a9f8d15a9:/# docker network ls

bash: docker: command not found

root@c74a9f8d15a9:/# cd ..

root@c74a9f8d15a9:/# cd ..

root@c74a9f8d15a9:/# history

1 docker ps

2 docker ps -a

3 docker network ls

4 cd ..

5 history

root@c74a9f8d15a9:/# docker run ubuntu

bash: docker: command not found

root@c74a9f8d15a9:/# exit

exit

root@ip-172-31-25-8:~# docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

root@ip-172-31-25-8:~# docker ps -a

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

c74a9f8d15a9 ubuntu "/bin/bash" 7 minutes ago Exited (127) 52 seconds ago objective\_mayer

3aa8fe8f2c9c ubuntu "/bin/bash" 7 minutes ago Exited (0) 7 minutes ago magical\_mirzakhani

ddff034d55f5 hello-world "/hello" 8 minutes ago Exited (0) 8 minutes ago amazing\_kirch

root@ip-172-31-25-8:~# docker ps -l

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

c74a9f8d15a9 ubuntu "/bin/bash" 9 minutes ago Exited (127) 3 minutes ago objective\_mayer

root@ip-172-31-25-8:~# docker start c74a9f8d15a9

c74a9f8d15a9

root@ip-172-31-25-8:~# docker stop c74a9f8d15a9

c74a9f8d15a9

root@ip-172-31-25-8:~# docker volume create

6db6885728d1f767ebedca2bf38fe29afe72c5bc02586150b6f2ba2b4fbeb879

root@ip-172-31-25-8:~# docker volume create sars-abc

sars-abc

root@ip-172-31-25-8:~# docker volume rm sars-abc

sars-abc

root@ip-172-31-25-8:~# docker network ls

NETWORK ID NAME DRIVER SCOPE

fddcf4150d10 bridge bridge local

d83b9de93fd0 host host local

bde2bb809783 none null local

root@ip-172-31-25-8:~# docker network inspect bridge

[

{

"Name": "bridge",

"Id": "fddcf4150d1064bece39111e5f21dd03609e276548bc2e9c68c27b58b5be24bc",

"Created": "2024-03-06T08:35:47.701010479Z",

"Scope": "local",

"Driver": "bridge",

"EnableIPv6": false,

"IPAM": {

"Driver": "default",

"Options": null,

"Config": [

{

"Subnet": "172.17.0.0/16",

"Gateway": "172.17.0.1"

}

]

},

"Internal": false,

"Attachable": false,

"Ingress": false,

"ConfigFrom": {

"Network": ""

},

"ConfigOnly": false,

"Containers": {},

"Options": {

"com.docker.network.bridge.default\_bridge": "true",

"com.docker.network.bridge.enable\_icc": "true",

"com.docker.network.bridge.enable\_ip\_masquerade": "true",

"com.docker.network.bridge.host\_binding\_ipv4": "0.0.0.0",

"com.docker.network.bridge.name": "docker0",

"com.docker.network.driver.mtu": "1500"

},

"Labels": {}

}

]

root@ip-172-31-25-8:~#