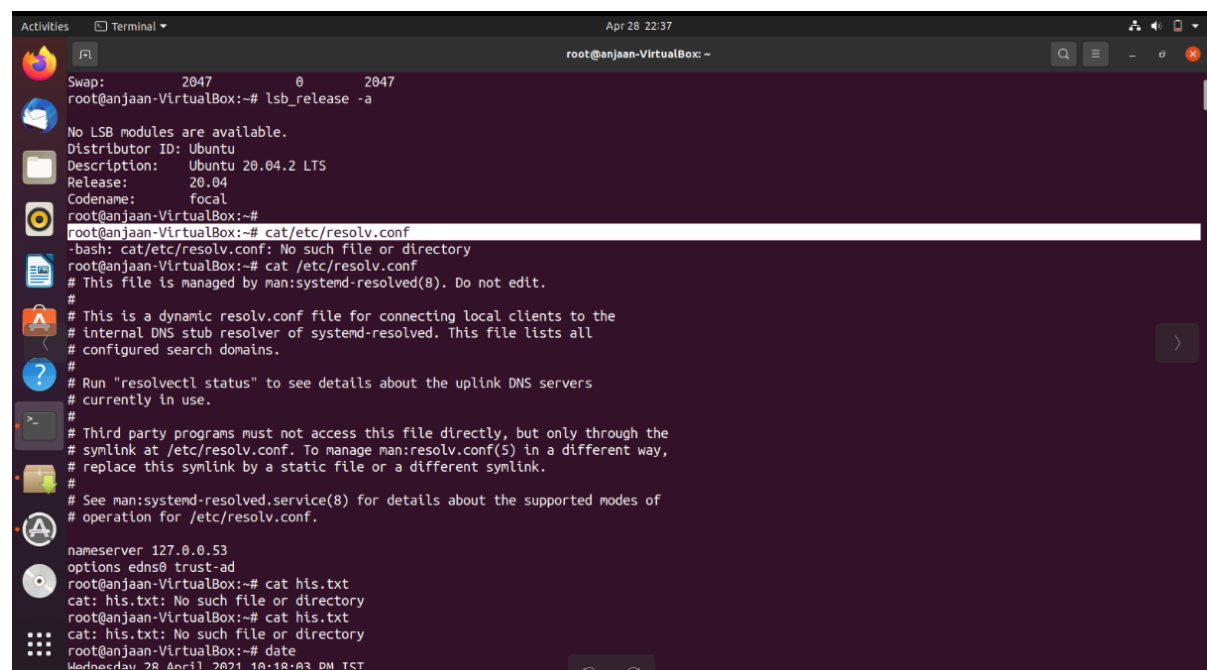


**TO CHECK RAM SIZE**A terminal window titled 'root@anjaan-VirtualBox: ~' showing the execution of the 'free -m' command. The output displays memory usage statistics in megabytes. The left sidebar of the terminal window shows various application icons.

```
root@anjaan-VirtualBox: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
anjaan@anjaan-VirtualBox:~$ sudo -i  
[sudo] password for anjaan:  
root@anjaan-VirtualBox:~# free -m  
              total        used        free      shared  buff/cache   available  
Mem:           4377         756         2427          14         1193         3367  
Swap:           2047           0         2047  
root@anjaan-VirtualBox:~#
```

**TO CHECK UBUNTU SYSTEM CONF****TO CHECK WHETHER YOU HAVE INTERNET IN SYSTEM**A terminal window titled 'root@anjaan-VirtualBox: ~' showing the execution of 'lsb\_release -a' and 'cat /etc/resolv.conf'. The output of 'lsb\_release -a' shows Ubuntu 20.04.2 LTS (focal). The output of 'cat /etc/resolv.conf' shows a dynamic resolv.conf file for connecting local clients to the internal DNS stub resolver. The left sidebar of the terminal window shows various application icons.

```
Swap:           2047           0         2047  
root@anjaan-VirtualBox:~# lsb_release -a  
No LSB modules are available.  
Distributor ID: Ubuntu  
Description:    Ubuntu 20.04.2 LTS  
Release:        20.04  
Codename:       focal  
root@anjaan-VirtualBox:~# cat /etc/resolv.conf  
-bash: cat /etc/resolv.conf: No such file or directory  
root@anjaan-VirtualBox:~# cat /etc/resolv.conf  
# This file is managed by man:systemd-resolved(8). Do not edit.  
#  
# This is a dynamic resolv.conf file for connecting local clients to the  
# internal DNS stub resolver of systemd-resolved. This file lists all  
# configured search domains.  
#  
# Run "resolvectl status" to see details about the uplink DNS servers  
# currently in use.  
#  
# Third party programs must not access this file directly, but only through the  
# symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in a different way,  
# replace this symlink by a static file or a different symlink.  
#  
# See man:systemd-resolved.service(8) for details about the supported modes of  
# operation for /etc/resolv.conf.  
nameserver 127.0.0.53  
options edns0 trust-ad  
root@anjaan-VirtualBox:~# cat his.txt  
cat: his.txt: No such file or directory  
root@anjaan-VirtualBox:~# cat his.txt  
cat: his.txt: No such file or directory  
root@anjaan-VirtualBox:~# date  
Wednesday 28 April 2021 10:18:43 PM IST  
root@anjaan-VirtualBox:~#
```

## INSTALL PREQUISITE PACKAGES FOR DOCKER

```
Activities Terminal Apr 28 22:38
root@anjan-VirtualBox: ~

#
# Third party programs must not access this file directly, but only through the
# symlink at /etc/resolv.conf. To manage man:resolv.conf(5) in a different way,
# replace this symlink by a static file or a different symlink.
#
# See man:systemd-resolved.service(8) for details about the supported modes of
# operation for /etc/resolv.conf.
nameserver 127.0.0.53
options edns0 trust-ad
root@anjan-VirtualBox:~# cat his.txt
cat: his.txt: No such file or directory
root@anjan-VirtualBox:~# cat his.txt
cat: his.txt: No such file or directory
root@anjan-VirtualBox:~# date
Wednesday 28 April 2021 10:18:03 PM IST
root@anjan-VirtualBox:~# sudo apt install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'apt' instead of 'apt-transport-https'
ca-certificates is already the newest version (20210119-20.04.1).
ca-certificates set to manually installed.
apt is already the newest version (2.0.4).
apt set to manually installed.
software-properties-common is already the newest version (0.98.9.3).
software-properties-common set to manually installed.
The following NEW packages will be installed:
  curl
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 161 kB of archives.
After this operation, 411 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Err:1 http://security.ubuntu.com/ubuntu focal-security/main amd64 curl amd64 7.68.0-1ubuntu2.4
404 Not Found [IP: 91.189.88.142 80]
E: Failed to fetch http://security.ubuntu.com/ubuntu/focal-security/main/amd64/curl/amd64 7.68.0-1ubuntu2.4 amd64 deb 404 Not Found [IP: 91.189.88.142 80]
```

## DOWNLOADING REPOSITORY

```
Activities Terminal Apr 28 22:39
root@anjan-VirtualBox: ~

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 libglb2.0-0:amd64 (2.64.6-1ubuntu20.04.1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for man-db (2.9.1-1) ...
root@anjan-VirtualBox:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
OK
root@anjan-VirtualBox:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Get:3 https://download.docker.com/linux/ubuntu focal InRelease [36.2 kB]
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [9,166 B]
Fetched 45.3 kB in 2s (23.7 kB/s)
Reading package lists... Done
root@anjan-VirtualBox:~# apt install docker -ce
W: Unable to read e - open (2: No such file or directory)
root@anjan-VirtualBox:~# apt install docker-ce

Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  containerd.io docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki
  git-svn
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz slirp4netns
0 upgraded, 10 newly installed, 0 to remove and 138 not upgraded.
Need to get 113 MB of archives.
After this operation, 504 MB of additional disk space will be used.
Get:1 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 nix amd64 2.4.1 [57.4 kB]
```

## UPDATE DOCKER REPOSITORY IN OUR SYSTEM

```
Activities Terminal Apr 28 22:39
root@anjan-VirtualBox: ~
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 libglib2.0-0:amd64 (2.64.6-1ubuntu20.04.1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for man-db (2.9.1-1) ...
root@anjan-VirtualBox:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
OK
root@anjan-VirtualBox:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Get:3 https://download.docker.com/linux/ubuntu focal InRelease [36.2 kB]
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [9,166 B]
Fetched 45.3 kB in 2s (23.7 kB/s)
Reading package lists... Done
root@anjan-VirtualBox:~# apt install docker -ce
W: Unable to read e - open (2: No such file or directory)
root@anjan-VirtualBox:~# apt install docker-ce

Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  containerd.io docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz slurp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki
  git-svn
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz slurp4netns
0 upgraded, 10 newly installed, 0 to remove and 138 not upgraded.
Need to get 113 MB of archives.
After this operation, 504 MB of additional disk space will be used.
```

## UPDATING APT

```
Activities Terminal Apr 28 22:38
root@anjan-VirtualBox: ~
root@anjan-VirtualBox:~# apt-get update
Get:1 http://security.ubuntu.com/ubuntu focal-security InRelease [109 kB]
Get:2 http://in.archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security/main i386 Packages [220 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu focal/main i386 Packages [718 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu focal/main amd64 Packages [970 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [623 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu focal/main Translation-en [506 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu focal/main amd64 DEP-11 Metadata [494 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu focal/main DEP-11 48x48 Icons [98.4 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu focal/main DEP-11 64x64 Icons [163 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu focal/main DEP-11 64x64@2 Icons [15.8 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu focal/main amd64 c-n-f Metadata [29.5 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [22.0 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu focal/restricted i386 Packages [8,112 B]
Get:17 http://in.archive.ubuntu.com/ubuntu focal/restricted Translation-en [6,212 B]
Get:18 http://in.archive.ubuntu.com/ubuntu focal/restricted amd64 c-n-f Metadata [392 B]
Get:19 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8,628 kB]
Get:20 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [127 kB]
Get:21 http://security.ubuntu.com/ubuntu focal-security/main amd64 DEP-11 Metadata [24.3 kB]
Get:22 http://security.ubuntu.com/ubuntu focal-security/main DEP-11 48x48 Icons [11.0 kB]
Get:23 http://security.ubuntu.com/ubuntu focal-security/main DEP-11 64x64 Icons [16.5 kB]
Get:24 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [7,468 B]
Get:25 http://security.ubuntu.com/ubuntu focal-security/restricted i386 Packages [15.0 kB]
Get:26 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [184 kB]
Get:27 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [27.0 kB]
Get:28 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [392 B]
Get:29 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [555 kB]
Get:30 http://in.archive.ubuntu.com/ubuntu focal/universe i386 Packages [4,642 kB]
Get:31 http://in.archive.ubuntu.com/ubuntu focal/universe Translation-en [5,124 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/universe i386 Packages [438 kB]
Get:33 http://in.archive.ubuntu.com/ubuntu focal/universe amd64 DEP-11 Metadata [3,603 kB]
Get:34 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [83.6 kB]
```

**DOWNLOADING DOCKER:**

WE HAVE IN TWO FORM ce AND ee

WE WILL INSTALL ce EDITION(community edition)

```
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 libgl1-mesa-dev:amd64 (2.64.6-1ubuntu20.04.1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.2) ...
Processing triggers for man-db (2.9.1-1) ...
root@anjan-VirtualBox:~# curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
OK
root@anjan-VirtualBox:~# sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
Hit:1 http://ln.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://ln.archive.ubuntu.com/ubuntu focal-updates InRelease
Get:3 https://download.docker.com/linux/ubuntu focal InRelease [36.2 kB]
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:5 http://ln.archive.ubuntu.com/ubuntu focal-backports InRelease
Get:6 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [9,166 B]
Fetched 45.3 kB in 2s (23.7 kB/s)
Reading package lists... Done
root@anjan-VirtualBox:~# apt install docker-ce
W: Unable to read e - open (2: No such file or directory)
root@anjan-VirtualBox:~# apt install docker-ce

Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  containerd.io docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz slurp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite git-daemon-run | git-daemon-sysvinit git-doc git-el git-email git-gui gitk gitweb git-cvs git-mediawiki
  git-svn
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-scan-plugin git git-man liberror-perl pigz slurp4netns
0 upgraded, 10 newly installed, 0 to remove and 138 not upgraded.
Need to get 113 MB of archives.
After this operation, 504 MB of additional disk space will be used.
```

After downloading it will automatically configured in single node

We can again check it is installed with newer version with same command

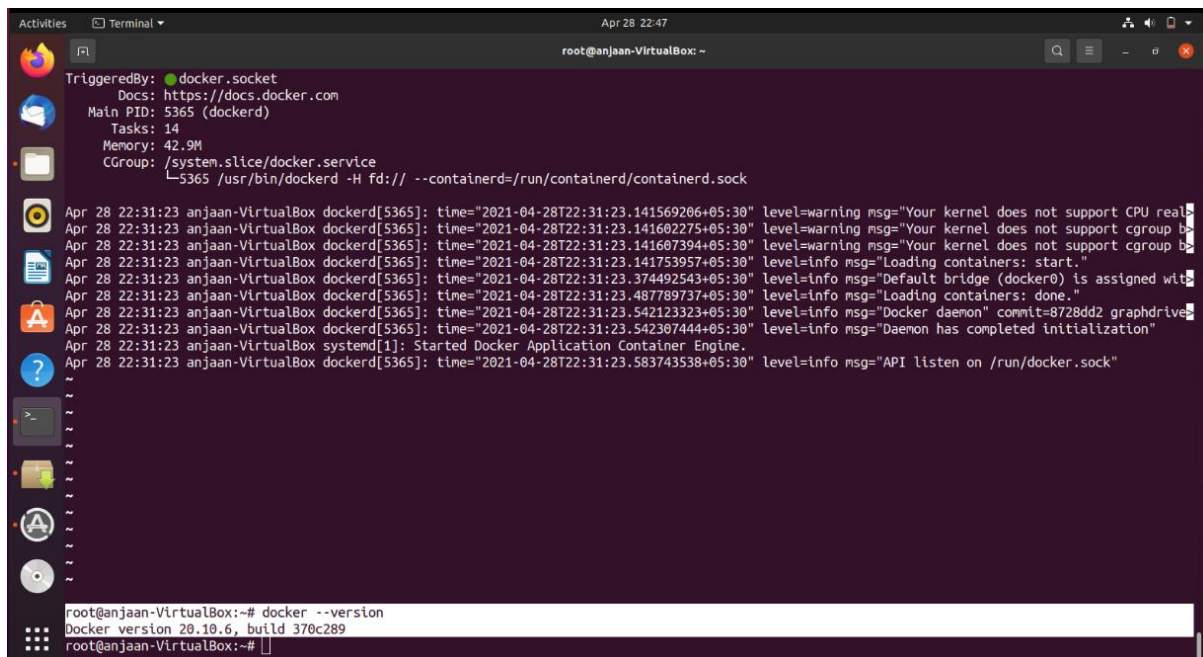
**CHECKING STATUS FOR DOCKER THAT SERVICE IS RUNNING OR NOT :**

```
docker-ce is already the newest version (5:20.10.6-3-0-ubuntu-focal).
0 upgraded, 0 newly installed, 0 to remove and 138 not upgraded.
root@anjan-VirtualBox:~# 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 2021-04-28 22:31:23 IST; 1min 54s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 5365 (dockerd)
      Tasks: 14
     Memory: 42.9M
    CGroup: /system.slice/docker.service
            └─5365 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141569206+05:30" level=warning msg="Your kernel does not support CPU real
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141602275+05:30" level=warning msg="Your kernel does not support cgroup b
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141607394+05:30" level=warning msg="Your kernel does not support cgroup b
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141753957+05:30" level=info msg="Loading containers: start."
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.374492543+05:30" level=info msg="Default bridge (docker0) is assigned with
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.487789737+05:30" level=info msg="Loading containers: done."
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.542123323+05:30" level=info msg="Docker daemon" commit=8728dd2 graphdrive
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.542307444+05:30" level=info msg="Daemon has completed initialization"
Apr 28 22:31:23 anjan-VirtualBox systemd[1]: Started Docker Application Container Engine.
Apr 28 22:31:23 anjan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.583743538+05:30" level=info msg="API listen on /run/docker.sock"
...skipping...
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2021-04-28 22:31:23 IST; 1min 54s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 5365 (dockerd)
      Tasks: 14
     Memory: 42.9M
    CGroup: /system.slice/docker.service
            └─5365 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
```



## CHECKING VERSION OF MY DOCKER



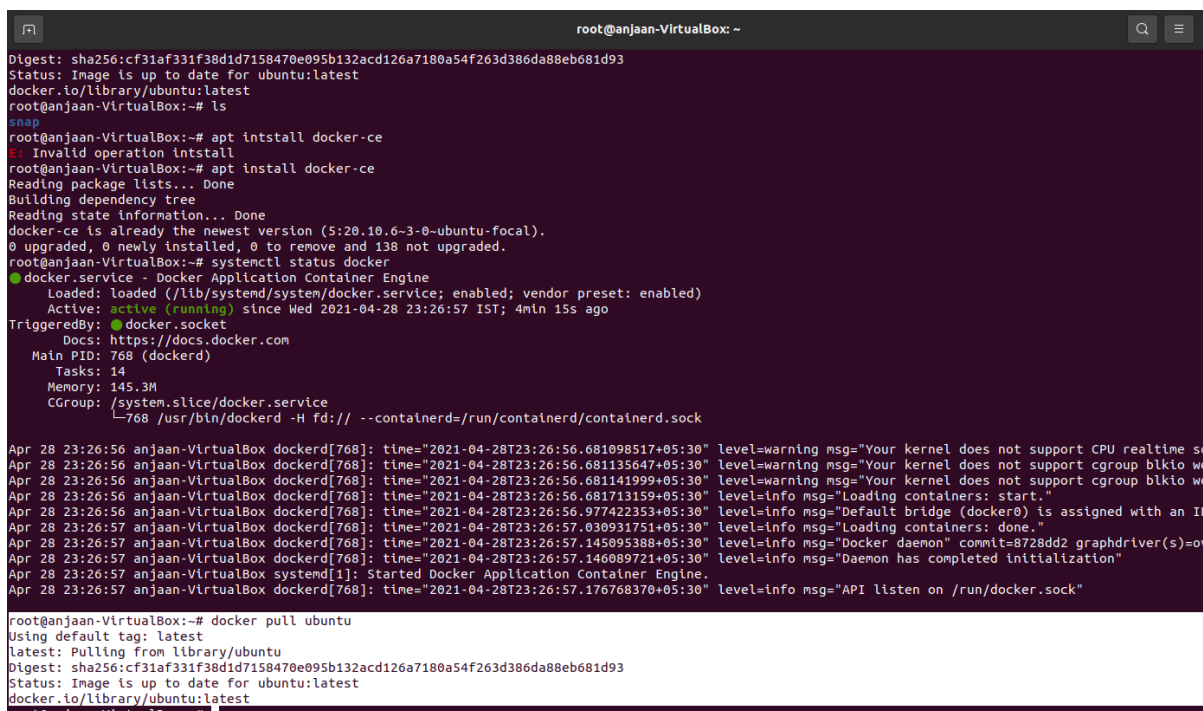
The screenshot shows a terminal window titled 'root@anjan-VirtualBox: ~'. It displays the output of the 'systemctl status docker' command, showing that the Docker service is active and running. Below this, the 'docker --version' command is executed, displaying 'Docker version 20.10.6, build 370c289'.

```
TriggeredBy: ● docker.socket
Docs: https://docs.docker.com
Main PID: 5365 (dockerd)
Tasks: 14
Memory: 42.9M
CGroup: /system.slice/docker.service
└─5365 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141569206+05:30" level=warning msg="Your kernel does not support CPU realt
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141602275+05:30" level=warning msg="Your kernel does not support cgroup bs
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141607394+05:30" level=warning msg="Your kernel does not support cgroup bs
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.141753957+05:30" level=info msg="Loading containers: start."
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.374492543+05:30" level=info msg="Default bridge (docker0) is assigned with IP 172.17.0.1 on interface veth-pair
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.487789737+05:30" level=info msg="Loading containers: done."
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.542123323+05:30" level=info msg="Docker daemon" commit=8728dd2 graphdriver(s)=ov
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.542307444+05:30" level=info msg="Daemon has completed initialization"
Apr 28 22:31:23 anjaan-VirtualBox systemd[1]: Started Docker Application Container Engine.
Apr 28 22:31:23 anjaan-VirtualBox dockerd[5365]: time="2021-04-28T22:31:23.583743538+05:30" level=info msg="API listen on /run/docker.sock"

root@anjan-VirtualBox:~# docker --version
Docker version 20.10.6, build 370c289
root@anjan-VirtualBox:~#
```

## GETTING A UBUNTU IMAGE FROM INTERNET



The screenshot shows a terminal window titled 'root@anjan-VirtualBox: ~'. It displays the output of the 'docker pull ubuntu' command, showing that the latest Ubuntu image is being pulled from the Docker Hub. The output includes the image's digest and status, and the terminal shows the image is successfully pulled.

```
Digest: sha256:cf31af331f38d1d7158470e095b132acd126a7180a54f263d386da88eb681d93
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
root@anjan-VirtualBox:~# ls
snap
root@anjan-VirtualBox:~# apt install docker-ce
Invalid operation install
root@anjan-VirtualBox:~# apt install docker-ce
Reading package lists... Done
Building dependency tree
Reading state information... Done
docker-ce is already the newest version (5:20.10.6-3-0-ubuntu-focal).
0 upgraded, 0 newly installed, 0 to remove and 138 not upgraded.
root@anjan-VirtualBox:~# 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 2021-04-28 23:26:57 IST; 4min 15s ago
   TriggeredBy: ● docker.socket
   Docs: https://docs.docker.com
   Main PID: 768 (dockerd)
   Tasks: 14
   Memory: 145.3M
   CGroup: /system.slice/docker.service
           └─768 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

Apr 28 23:26:56 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:56.681098517+05:30" level=warning msg="Your kernel does not support CPU realt
Apr 28 23:26:56 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:56.681135647+05:30" level=warning msg="Your kernel does not support cgroup blkio we
Apr 28 23:26:56 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:56.681141999+05:30" level=warning msg="Your kernel does not support cgroup blkio we
Apr 28 23:26:56 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:56.681713159+05:30" level=info msg="Loading containers: start."
Apr 28 23:26:56 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:56.977422353+05:30" level=info msg="Default bridge (docker0) is assigned with an IP
Apr 28 23:26:57 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:57.030931751+05:30" level=info msg="Loading containers: done."
Apr 28 23:26:57 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:57.145095388+05:30" level=info msg="Docker daemon" commit=8728dd2 graphdriver(s)=ov
Apr 28 23:26:57 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:57.146089721+05:30" level=info msg="Daemon has completed initialization"
Apr 28 23:26:57 anjaan-VirtualBox systemd[1]: Started Docker Application Container Engine.
Apr 28 23:26:57 anjaan-VirtualBox dockerd[768]: time="2021-04-28T23:26:57.176768370+05:30" level=info msg="API listen on /run/docker.sock"

root@anjan-VirtualBox:~# docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
Digest: sha256:cf31af331f38d1d7158470e095b132acd126a7180a54f263d386da88eb681d93
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
root@anjan-VirtualBox:~#
```

**DOCKER IMAGE:**

```
root@anjaan-VirtualBox:~# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    7e0aa2d69a15   4 days ago    72.7MB
root@anjaan-VirtualBox:~#
```

**LAUNCHING IMAGE:**

```
root@anjaan-VirtualBox:~# docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
ubuntu        latest    7e0aa2d69a15   4 days ago    72.7MB
root@anjaan-VirtualBox:~# docker run -it -d 7e0aa2d69a15
bb68b4efb1208d76fce7ed90af68c400fa1d2da0b89a4d8b9efd8c1f1aa661a8
root@anjaan-VirtualBox:~#
```

**LOGIN TO THIS IMAGE WITH CONTAINER ID:**

```
root@anjaan-VirtualBox:~# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS   NAMES
bb68b4efb120   7e0aa2d69a15   "/bin/bash"             About a minute ago    Up About a minute                   gracious_noether
root@anjaan-VirtualBox:~# docker exec -it bb68b4efb120 bash
root@bb68b4efb120:/#
```

```
root@anjaan-VirtualBox:~# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS   NAMES
bb68b4efb120   7e0aa2d69a15   "/bin/bash"             About a minute ago    Up About a minute                   gracious_noether
root@anjaan-VirtualBox:~# docker exec -it bb68b4efb120 bash
root@bb68b4efb120:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sbt  srv  sys  tmp  usr  var
root@bb68b4efb120:/#
```

WE CAN PUT OUR APPLICATION HERE AND WORK HERE

TO EXIT WE CAN GIVE **exit** COMMAND TO COME OUT OF THIS IMAGE.