

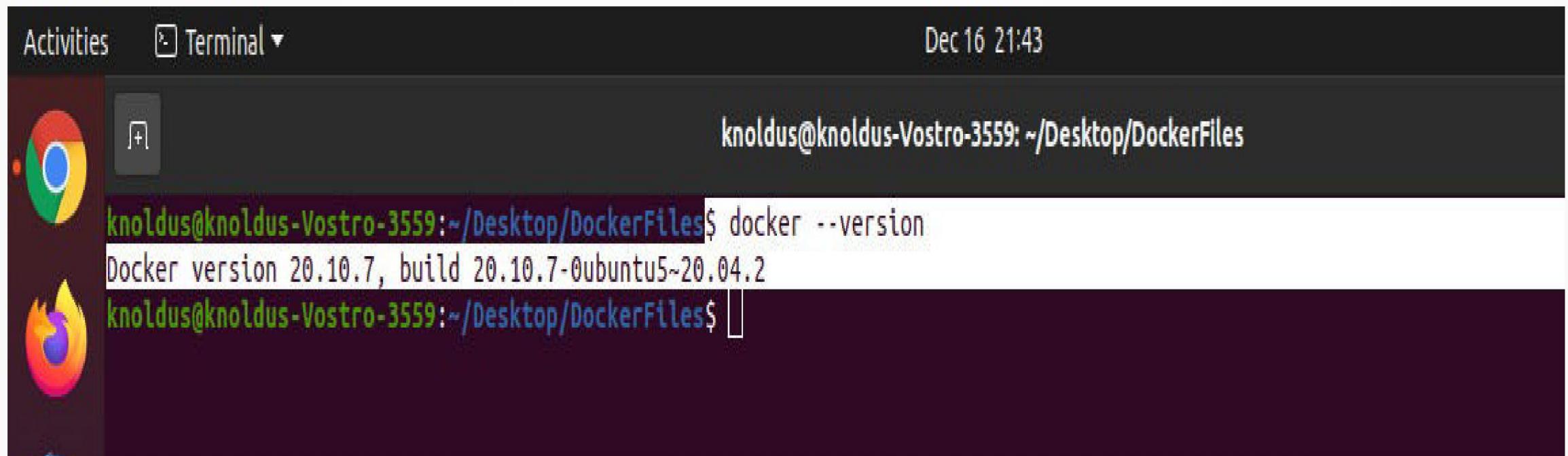
# **DOCKER ASSIGNMENT**

**RANU RAJPUT**  
**Emp Id - 1743**

# Docker Commands

## 1. Finding the Version

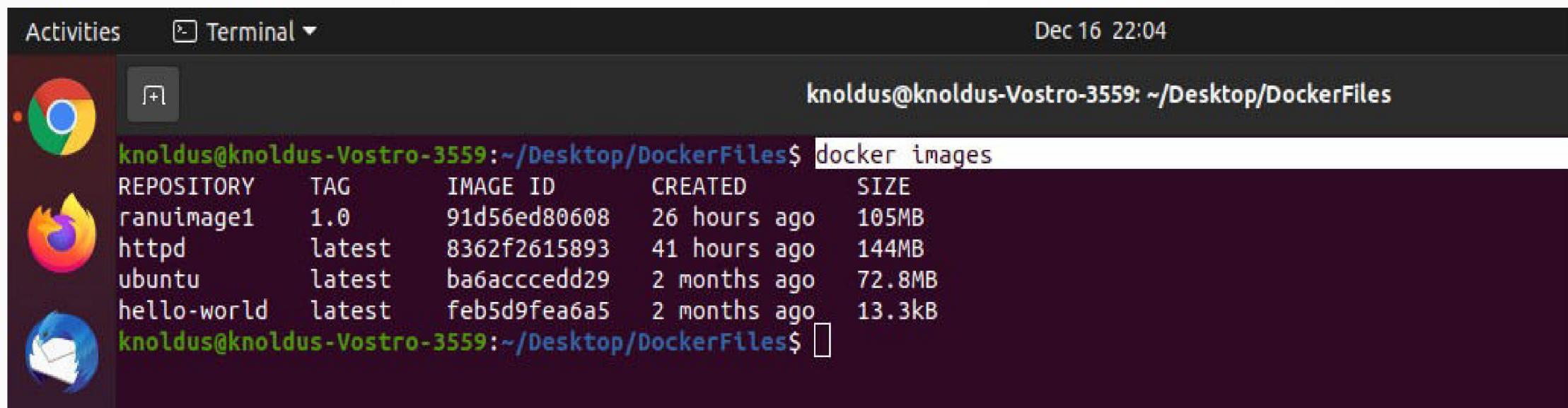
`docker --version`

A screenshot of a Linux desktop environment. At the top, there is a dark header bar with the text "Activities", "Terminal", and the date "Dec 16 21:43". Below the header, there is a dock on the left containing icons for Google Chrome and Mozilla Firefox. The main area is a terminal window with a black background and white text. The terminal shows the command "docker --version" being run, followed by the output "Docker version 20.10.7, build 20.10.7-0ubuntu5~20.04.2".

```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker --version
Docker version 20.10.7, build 20.10.7-0ubuntu5~20.04.2
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ 
```

## 2. List all docker images with image details

docker images

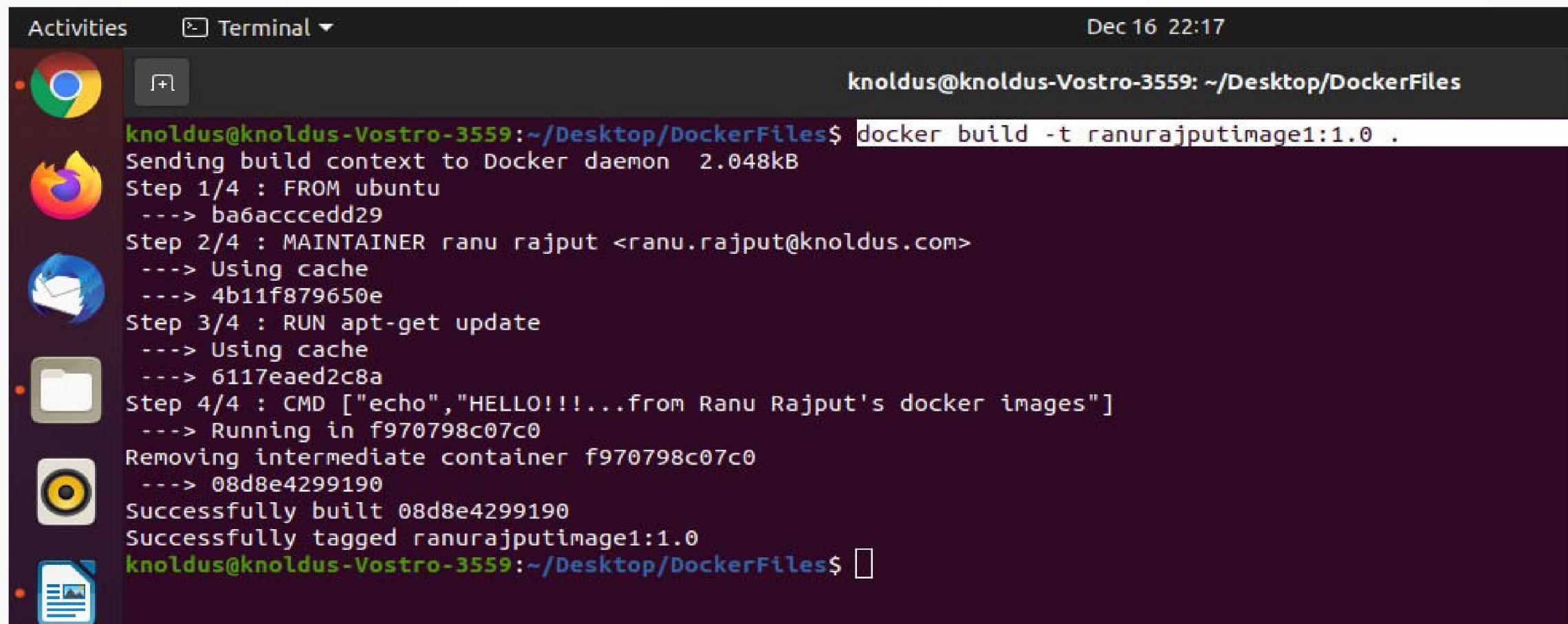


A screenshot of a Linux desktop environment showing a terminal window. The terminal window has a dark background and light-colored text. It displays the command 'docker images' and its output, which lists several Docker images along with their details. The terminal window is titled 'Terminal' and is located in the top right corner of the desktop. The desktop interface includes a dock with icons for a browser, file manager, and terminal, and a system tray with a network icon.

```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker images
REPOSITORY      TAG      IMAGE ID      CREATED       SIZE
ranuimage1      1.0      91d56ed80608  26 hours ago  105MB
httpd           latest    8362f2615893  41 hours ago  144MB
ubuntu          latest    ba6acccedd29  2 months ago   72.8MB
hello-world     latest    feb5d9fea6a5  2 months ago   13.3kB
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$
```

### 3. Creation of image

ex- docker build -t ranurajputimage1:1.0 .



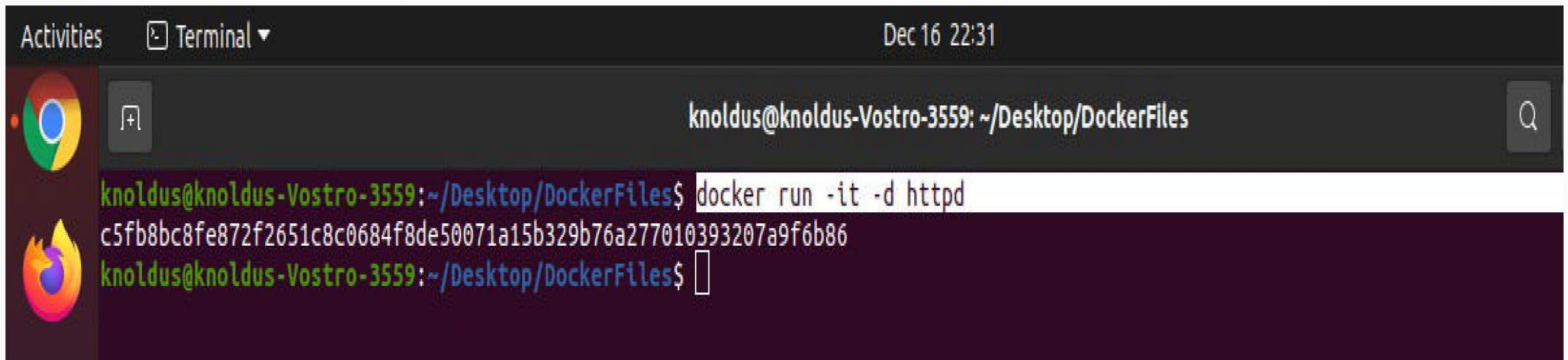
A screenshot of a Linux desktop environment, likely Ubuntu, showing a terminal window. The terminal window has a dark background and light-colored text. It displays the command 'docker build -t ranurajputimage1:1.0 .' followed by the output of the build process. The output shows the creation of a Docker image from a local directory, using an Ubuntu base image, setting the maintainer to 'ranu rajput <ranu.rajput@knoldus.com>', running an 'apt-get update' command, and finally executing a CMD command to echo a message. The terminal window is titled 'Terminal' and is part of a larger desktop interface with other application icons visible on the left.

```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker build -t ranurajputimage1:1.0 .
Sending build context to Docker daemon 2.048kB
Step 1/4 : FROM ubuntu
--> ba6acccedd29
Step 2/4 : MAINTAINER ranu rajput <ranu.rajput@knoldus.com>
--> Using cache
--> 4b11f879650e
Step 3/4 : RUN apt-get update
--> Using cache
--> 6117eaed2c8a
Step 4/4 : CMD ["echo","HELLO!!!...from Ranu Rajput's docker images"]
--> Running in f970798c07c0
Removing intermediate container f970798c07c0
--> 08d8e4299190
Successfully built 08d8e4299190
Successfully tagged ranurajputimage1:1.0
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$
```

## 4. Run

It will create a docker container.  
In which apache HTTP server will run.

docker run -it -d httpd

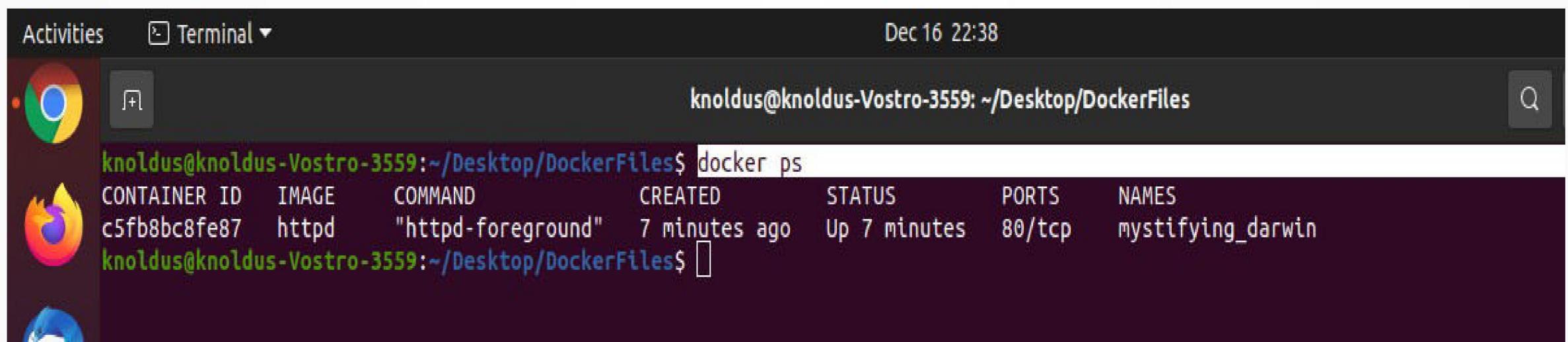
A screenshot of a Linux desktop environment. At the top, there is a dark header bar with the text "Activities", "Terminal", and the date "Dec 16 22:31". Below the header is a dock containing icons for Google Chrome and Mozilla Firefox. The main area is a terminal window with a black background and white text. The terminal shows the command "docker run -it -d httpd" being entered, followed by its output: "c5fb8bc8fe872f2651c8c0684f8de50071a15b329b76a277010393207a9f6b86".

```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker run -it -d httpd
c5fb8bc8fe872f2651c8c0684f8de50071a15b329b76a277010393207a9f6b86
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ 
```

## 5. ps

It will list all the docker containers are running with container details.

docker ps



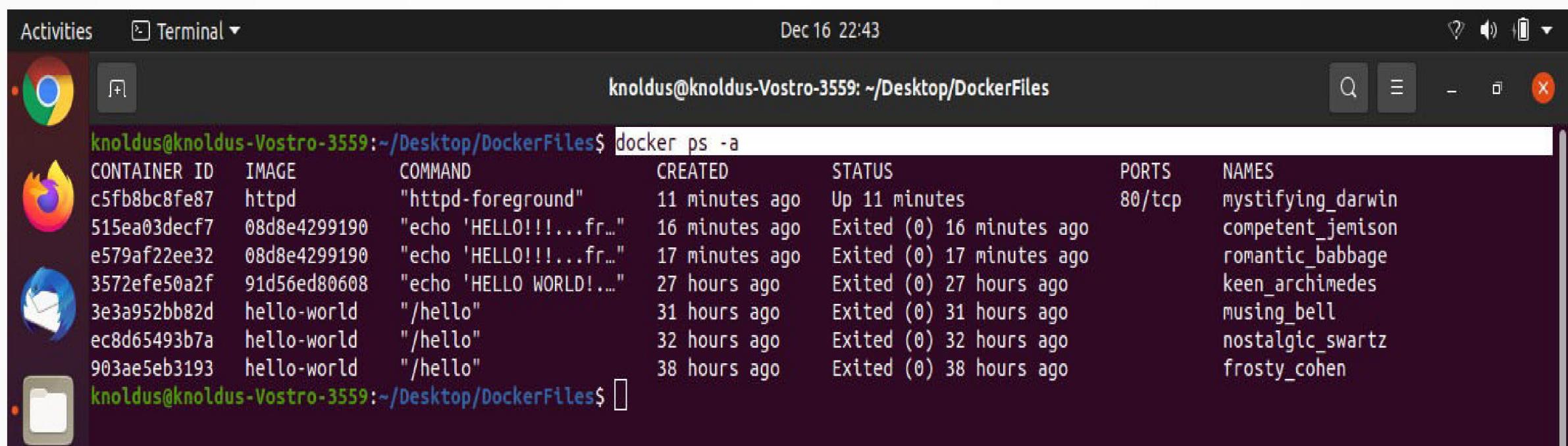
The screenshot shows a terminal window titled "Terminal" in the Activities overview. The terminal is running on a system with the username "knoldus". The command "docker ps" is being run, and the output shows one container named "mystifying\_darwin" which was created 7 minutes ago and is currently up. The terminal window has a dark background and includes icons for other applications like Google Chrome and Mozilla Firefox.

```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker ps
CONTAINER ID   IMAGE       COMMAND       CREATED      STATUS      PORTS     NAMES
c5fb8bc8fe87   httpd      "httpd-foreground"  7 minutes ago   Up 7 minutes   80/tcp    mystifying_darwin
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$
```

## 6. ps -a

It will list all the docker containers running/exited/stopped with container details.

docker ps -a



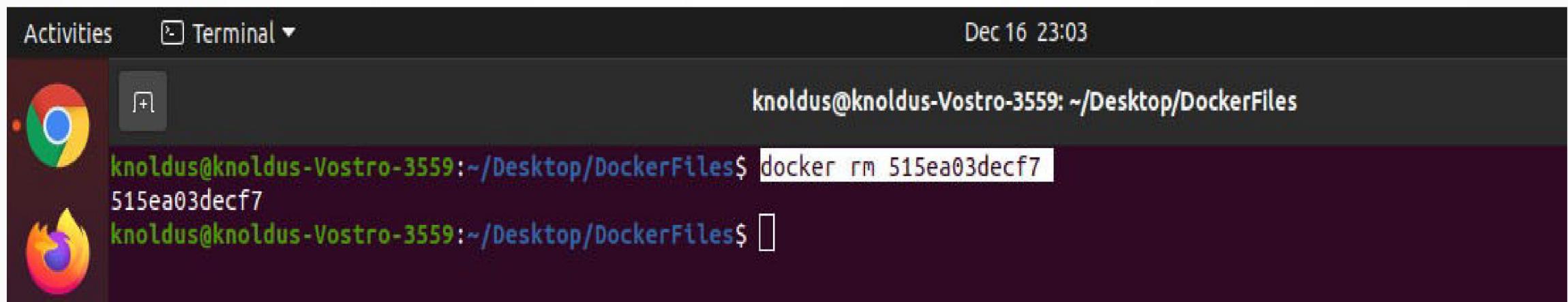
```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS          NAMES
c5fb8bc8fe87        httpd              "httpd-foreground"   11 minutes ago    Up 11 minutes      80/tcp         mystifying_darwin
515ea03decf7        08d8e4299190     "echo 'HELLO!!!...fr.."  16 minutes ago   Exited (0) 16 minutes ago
e579af22ee32        08d8e4299190     "echo 'HELLO!!!...fr.."  17 minutes ago   Exited (0) 17 minutes ago
3572efe50a2f        91d56ed80608     "echo 'HELLO WORLD!..."  27 hours ago    Exited (0) 27 hours ago
3e3a952bb82d        hello-world        "/hello"           31 hours ago    Exited (0) 31 hours ago
ec8d65493b7a        hello-world        "/hello"           32 hours ago    Exited (0) 32 hours ago
903ae5eb3193        hello-world        "/hello"           38 hours ago    Exited (0) 38 hours ago
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$
```

## 7. rm

It will remove container with container id.

docker rm containerid

ex- docker rm 515ea03decf7

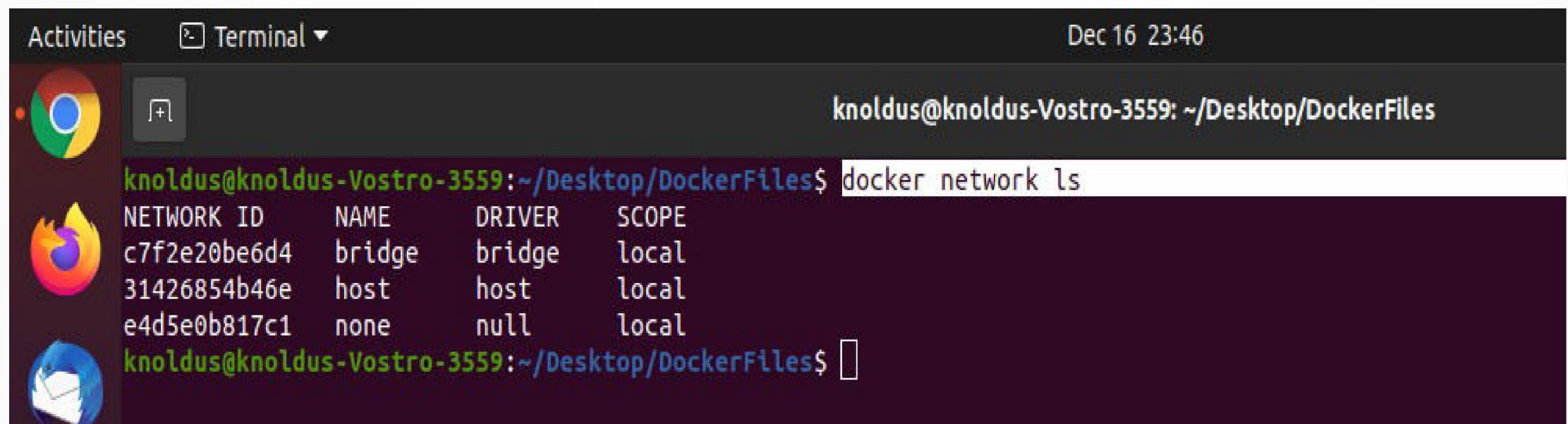


The screenshot shows a terminal window titled "Terminal" in the top left corner. The window has a dark theme. In the top right, it says "Dec 16 23:03". The terminal prompt is "knoldus@knoldus-Vostro-3559: ~/Desktop/DockerFiles\$". The user then types "docker rm 515ea03decf7" and presses Enter. The terminal shows the command again followed by "515ea03decf7" in red, indicating the container was successfully removed. The prompt then changes to "knoldus@knoldus-Vostro-3559: ~/Desktop/DockerFiles\$". On the far left of the terminal window, there are icons for a browser (Google Chrome) and a file manager (Nautilus).

# 8. Docker Network

It will lists the details of all network in the cluster.

docker network ls



The screenshot shows a Linux desktop environment with a dark theme. In the top bar, there is an 'Activities' button, a 'Terminal' button with a dropdown arrow, and the date and time 'Dec 16 23:46'. The terminal window has a black background and white text. It displays the command 'knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles\$ docker network ls' followed by a table of network details. The table has four columns: NETWORK ID, NAME, DRIVER, and SCOPE. Three networks are listed: 'bridge' (ID: c7f2e20be6d4), 'host' (ID: 31426854b46e), and 'none' (ID: e4d5e0b817c1). All three are of type 'local'. The terminal prompt 'knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles\$' is shown at the bottom right.

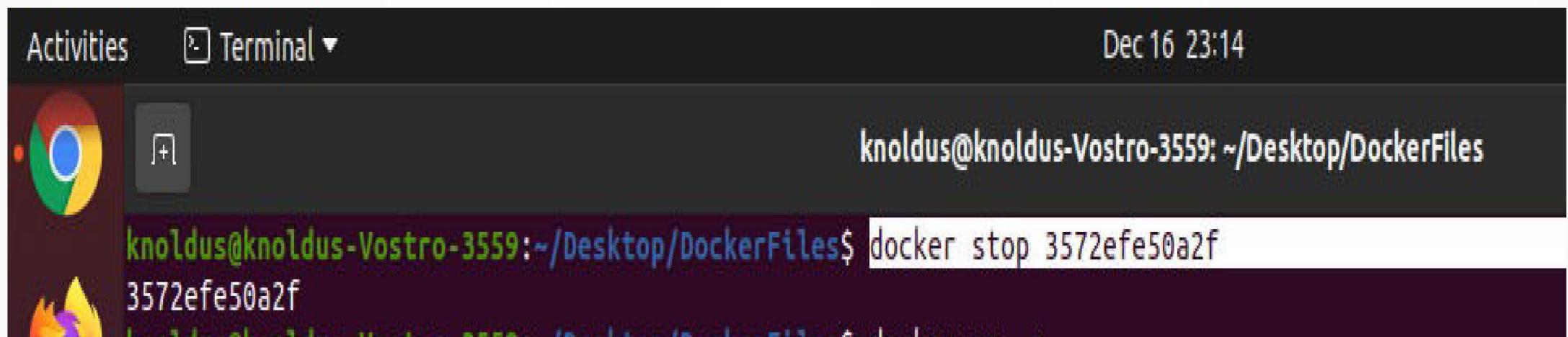
NETWORK ID	NAME	DRIVER	SCOPE
c7f2e20be6d4	bridge	bridge	local
31426854b46e	host	host	local
e4d5e0b817c1	none	null	local

## 9. Stopping Docker

It will stop container with container id.

docker stop containerid

ex- docker stop docker stop 3572efe50a2f



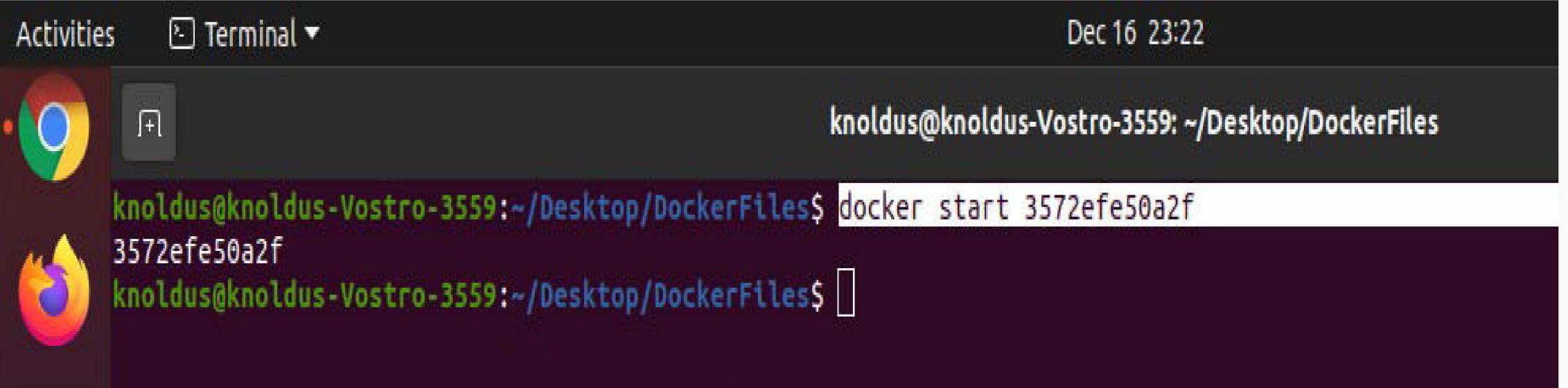
```
Activities Terminal ▾ Dec 16 23:14
knoldus@knoldus-Vostro-3559: ~/Desktop/DockerFiles
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker stop 3572efe50a2f
3572efe50a2f
```

# 10. Starting Docker

It will start a container with container id.

docker start containerid

ex- docker start 515ea03decf7



The screenshot shows a Linux desktop environment with a dark theme. At the top, there is a header bar with 'Activities' and a 'Terminal' icon. The date and time 'Dec 16 23:22' are also displayed. Below the header, there is a dock with icons for Google Chrome and a file manager. A terminal window is open, showing the command 'docker start 3572efe50a2f' being run by the user 'knoldus' at the prompt 'knoldus@knoldus-Vostro-3559: ~/Desktop/DockerFiles\$'. The terminal window has a dark background with light-colored text.

```
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$ docker start 3572efe50a2f  
3572efe50a2f  
knoldus@knoldus-Vostro-3559:~/Desktop/DockerFiles$
```