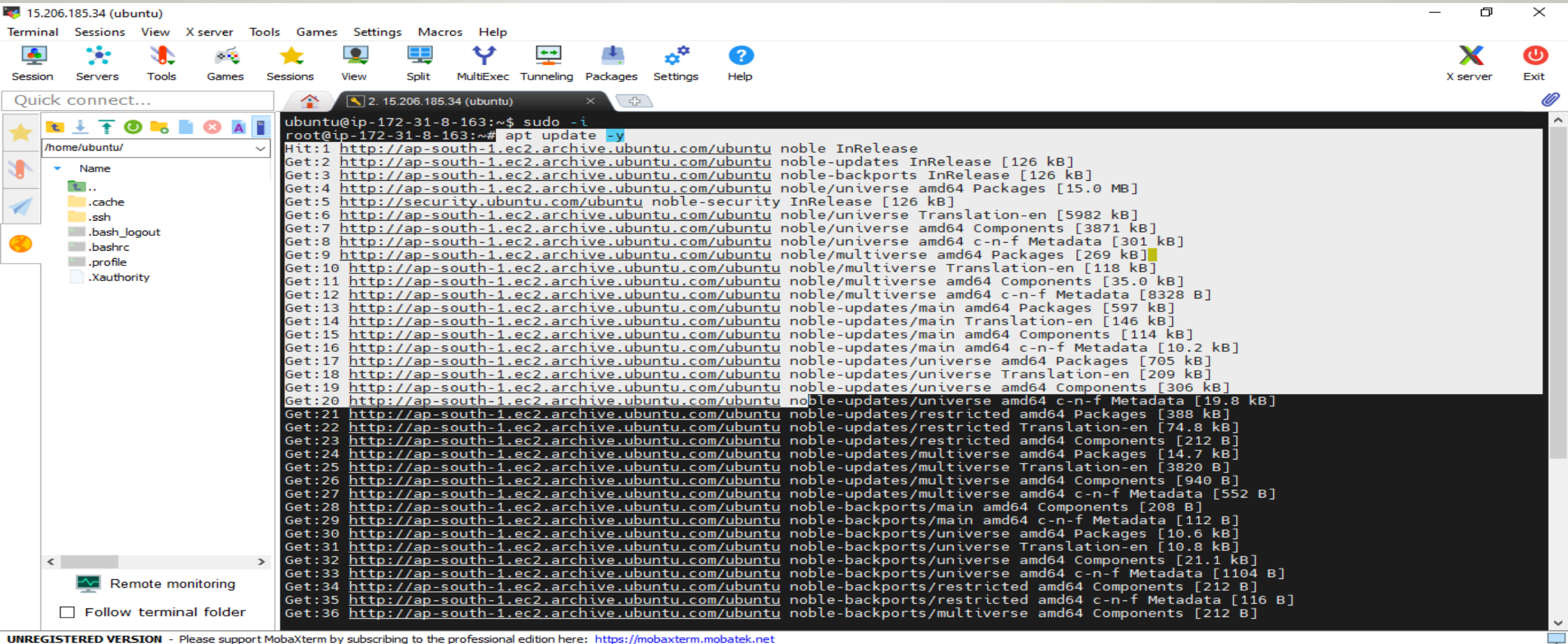


NIMAP INFOTECH PVT LTD

The background features a faint, light gray line chart with several data points and connecting lines. A solid red horizontal line is positioned below the company name. The bottom of the image shows a wooden floor with vertical planks.

First updated the packages

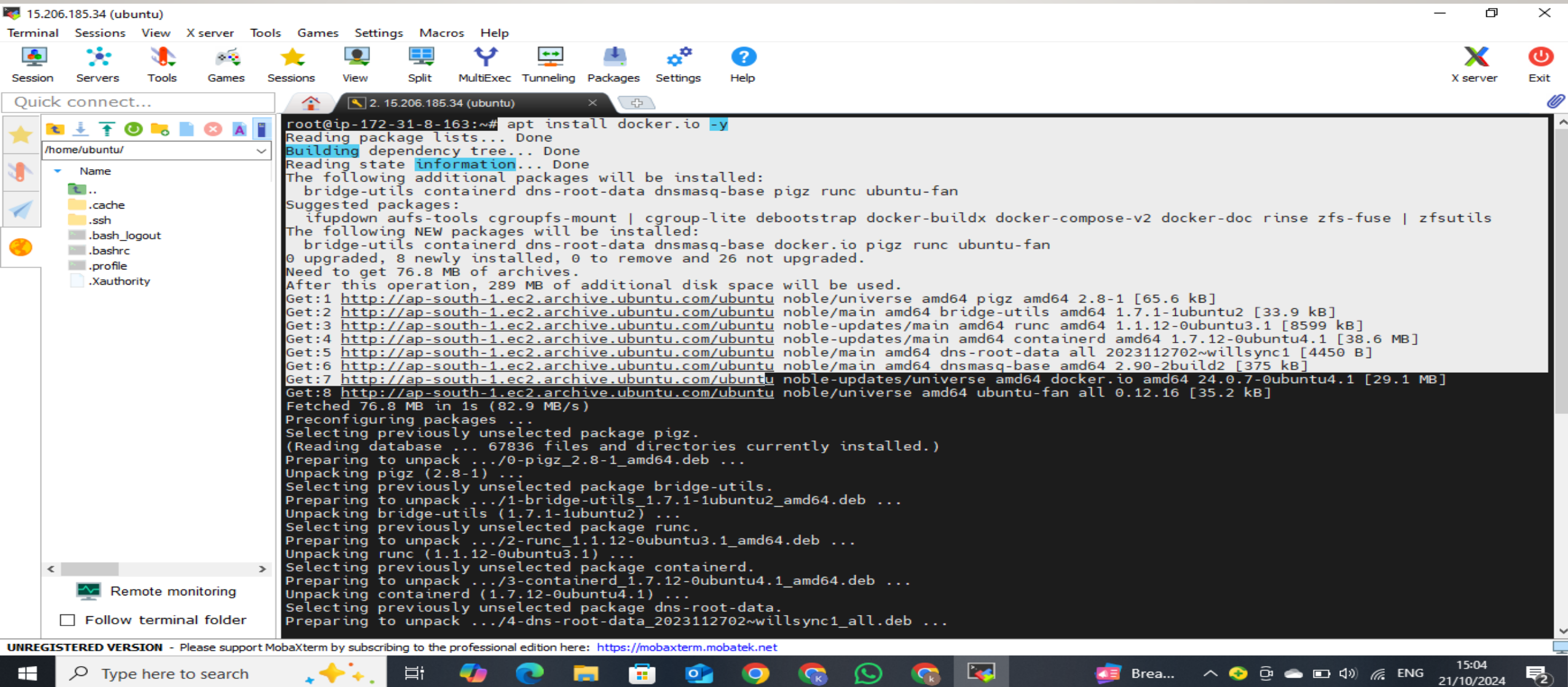


The screenshot displays a MobaXterm terminal window with the title bar '15.206.185.34 (ubuntu)'. The terminal interface includes a top menu bar (Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, Help) and a toolbar with icons for Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, and Help. A 'Quick connect...' sidebar on the left shows a file explorer for '/home/ubuntu/' with folders like .cache, .ssh, .bash_logout, .bashrc, .profile, and .Xauthority. The terminal window shows a user prompt 'ubuntu@ip-172-31-8-163:~\$' followed by the command 'sudo -i' and 'apt update -y'. The output of the 'apt update' command is displayed, showing the system's connection to various Ubuntu mirrors and the update of package lists. The output includes lines for 'Hit', 'Get', and 'Fetched' for various components like 'noble InRelease', 'noble-updates InRelease', 'noble-backports InRelease', 'noble-universe amd64 Packages', 'noble-security InRelease', 'noble/universe Translation-en', 'noble/universe amd64 Components', 'noble/universe amd64 c-n-f Metadata', 'noble/multiverse amd64 Packages', 'noble/multiverse Translation-en', 'noble/multiverse amd64 Components', 'noble/multiverse amd64 c-n-f Metadata', 'noble-updates/main amd64 Packages', 'noble-updates/main Translation-en', 'noble-updates/main amd64 Components', 'noble-updates/main amd64 c-n-f Metadata', 'noble-updates/universe amd64 Packages', 'noble-updates/universe Translation-en', 'noble-updates/universe amd64 Components', 'noble-updates/universe amd64 c-n-f Metadata', 'noble-updates/restricted amd64 Packages', 'noble-updates/restricted Translation-en', 'noble-updates/restricted amd64 Components', 'noble-updates/multiverse amd64 Packages', 'noble-updates/multiverse Translation-en', 'noble-updates/multiverse amd64 Components', 'noble-updates/multiverse amd64 c-n-f Metadata', 'noble-backports/main amd64 Components', 'noble-backports/main amd64 c-n-f Metadata', 'noble-backports/universe amd64 Packages', 'noble-backports/universe Translation-en', 'noble-backports/universe amd64 Components', 'noble-backports/universe amd64 c-n-f Metadata', 'noble-backports/restricted amd64 Components', 'noble-backports/restricted amd64 c-n-f Metadata', and 'noble-backports/multiverse amd64 Components'. The terminal window also shows a 'Remote monitoring' checkbox and a 'Follow terminal folder' checkbox. At the bottom, there is a footer for 'UNREGISTERED VERSION' with a link to the professional edition.

```
ubuntu@ip-172-31-8-163:~$ sudo -i
root@ip-172-31-8-163:~# apt update -y
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-universe amd64 Packages [15.0 MB]
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [597 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [146 kB]
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [114 kB]
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [10.2 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [705 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [209 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [306 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.8 kB]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [388 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [74.8 kB]
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [14.7 kB]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3820 B]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [10.6 kB]
Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [10.8 kB]
Get:32 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [21.1 kB]
Get:33 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1104 B]
Get:34 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [212 B]
Get:35 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [116 B]
Get:36 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
```

Install Docker on Ubuntu

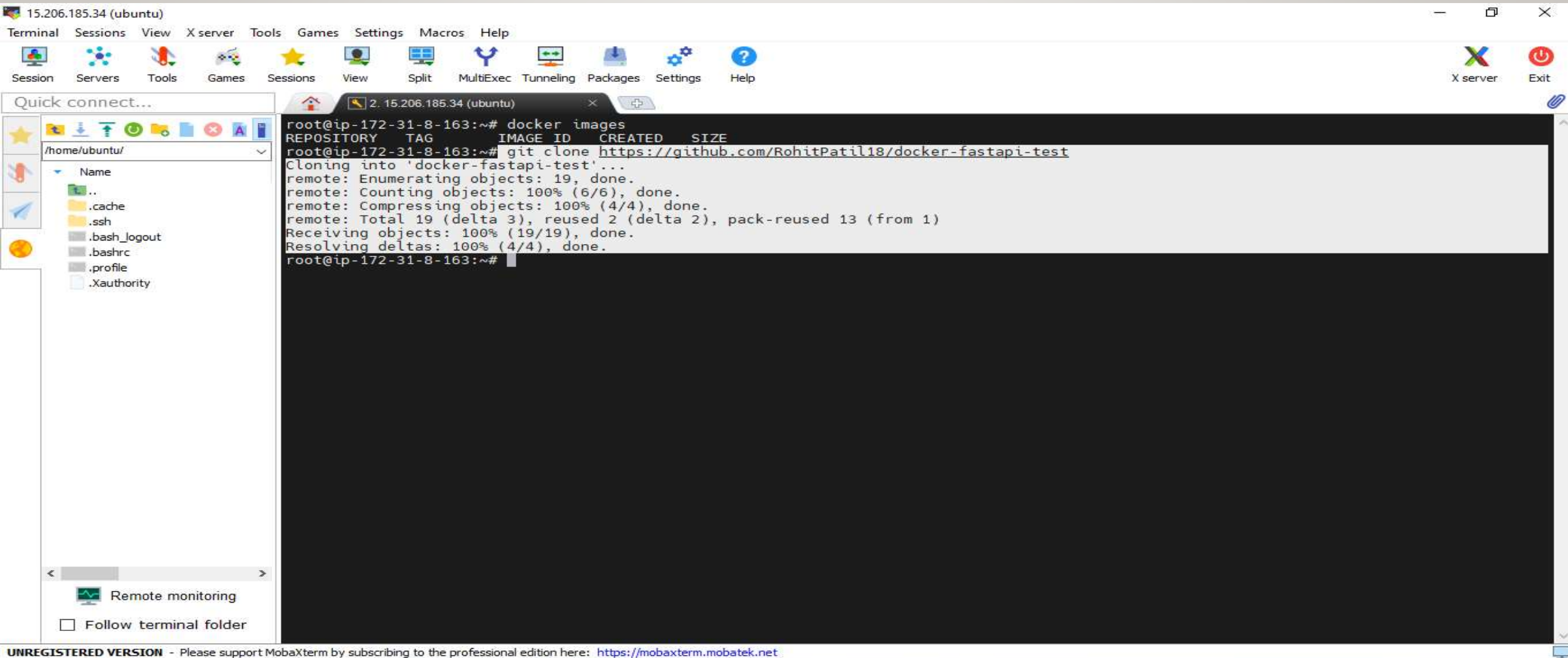
```
apt install docker.io -y
```



```
root@ip-172-31-8-163:~# apt install docker.io -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-buildx docker-compose-v2 docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 26 not upgraded.
Need to get 76.8 MB of archives.
After this operation, 289 MB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 pigz amd64 2.8-1 [65.6 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 bridge-utils amd64 1.7.1-1ubuntu2 [33.9 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 runc amd64 1.1.12-0ubuntu3.1 [8599 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 containerd amd64 1.7.12-0ubuntu4.1 [38.6 MB]
Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dns-root-data all 2023112702~willsync1 [4450 B]
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/main amd64 dnsmasq-base amd64 2.90-2build2 [375 kB]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 docker.io amd64 24.0.7-0ubuntu4.1 [29.1 MB]
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 ubuntu-fan all 0.12.16 [35.2 kB]
Fetched 76.8 MB in 1s (82.9 MB/s)
Preconfiguring packages ...
Selecting previously unselected package pigz.
(Reading database ... 67836 files and directories currently installed.)
Preparing to unpack .../0-pigz_2.8-1_amd64.deb ...
Unpacking pigz (2.8-1) ...
Selecting previously unselected package bridge-utils.
Preparing to unpack .../1-bridge-utils_1.7.1-1ubuntu2_amd64.deb ...
Unpacking bridge-utils (1.7.1-1ubuntu2) ...
Selecting previously unselected package runc.
Preparing to unpack .../2-runc_1.1.12-0ubuntu3.1_amd64.deb ...
Unpacking runc (1.1.12-0ubuntu3.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.12-0ubuntu4.1_amd64.deb ...
Unpacking containerd (1.7.12-0ubuntu4.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2023112702~willsync1_all.deb ...
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Take a github link and clone it



The screenshot shows the MobaXterm application window. The title bar indicates the connection is to 15.206.185.34 (ubuntu). The menu bar includes Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, and Help. The toolbar contains icons for Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, and Help. On the right, there are buttons for X server and Exit. A 'Quick connect...' search bar is located above a file explorer on the left, which shows the directory /home/ubuntu/. The file explorer lists files: .., .cache, .ssh, .bash_logout, .bashrc, .profile, and .Xauthority. At the bottom of the file explorer, there are checkboxes for 'Remote monitoring' (checked) and 'Follow terminal folder' (unchecked). The main terminal pane shows the following commands and output:

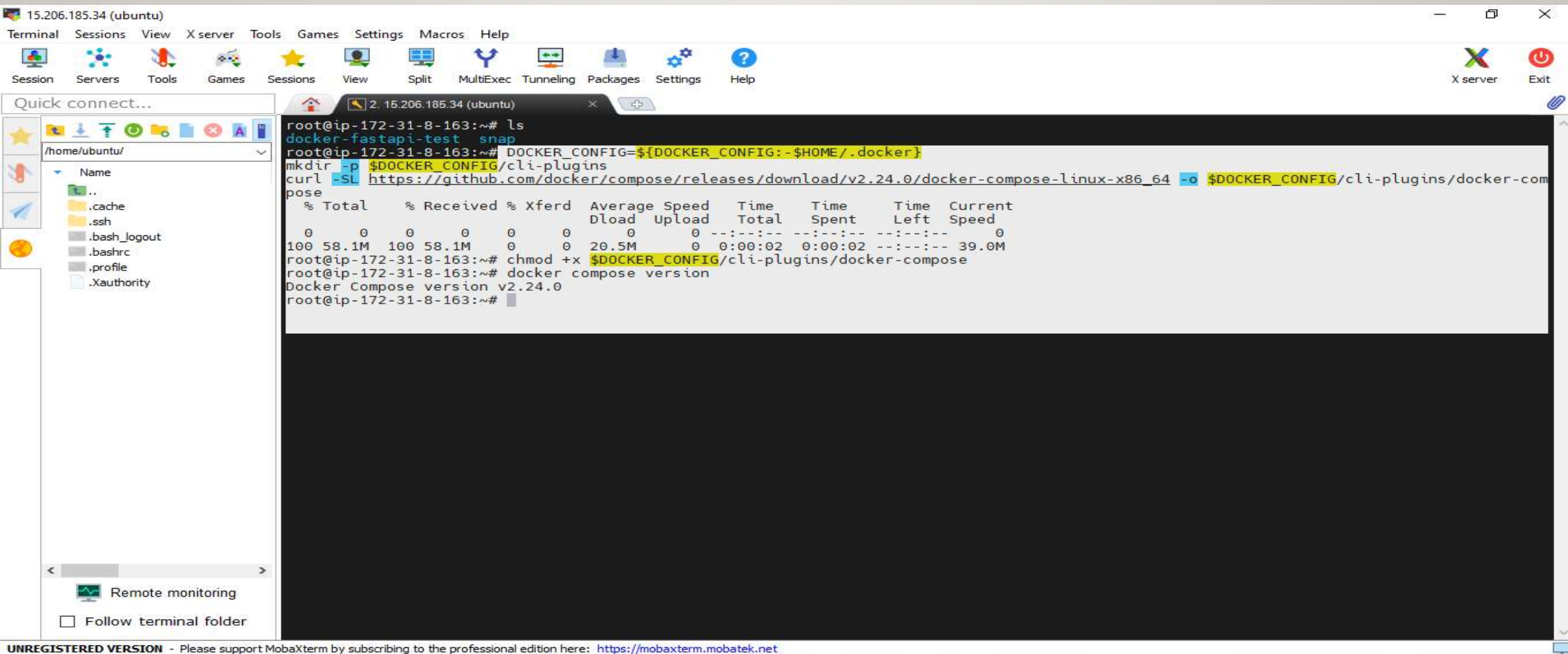
```
root@ip-172-31-8-163:~# docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
root@ip-172-31-8-163:~# git clone https://github.com/RohitPatil18/docker-fastapi-test
Cloning into 'docker-fastapi-test'...
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 19 (delta 3), reused 2 (delta 2), pack-reused 13 (from 1)
Receiving objects: 100% (19/19), done.
Resolving deltas: 100% (4/4), done.
root@ip-172-31-8-163:~#
```

At the bottom of the window, a message reads: 'UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>'.

Install Docker Compose

```
DOCKER_CONFIG=${DOCKER_CONFIG:-$HOME/.docker}mkdir -p $DOCKER_CONFIG/cli-pluginscurl -SL https://github.com/docker/compose/releases/download/v2.24.0/docker-compose-linux-x86_64 -o $DOCKER_CONFIG/cli-plugins/docker-compose
```

```
chmod +x $DOCKER_CONFIG/cli-plugins/docker-compose
```



The screenshot shows a MobaXterm terminal window with the following content:

```
root@ip-172-31-8-163:~# ls
docker-fastapi-test snap
root@ip-172-31-8-163:~# DOCKER_CONFIG=${DOCKER_CONFIG:-$HOME/.docker}
mkdir -p $DOCKER_CONFIG/cli-plugins
curl -SL https://github.com/docker/compose/releases/download/v2.24.0/docker-compose-linux-x86_64 -o $DOCKER_CONFIG/cli-plugins/docker-com
pose
% Total      % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
  0     0    0     0    0     0      0      0  --:--:-- --:--:-- --:--:--    0
100 58.1M 100 58.1M    0     0 20.5M    0  0:00:02  0:00:02 --:--:-- 39.0M
root@ip-172-31-8-163:~# chmod +x $DOCKER_CONFIG/cli-plugins/docker-compose
root@ip-172-31-8-163:~# docker compose version
Docker Compose version v2.24.0
root@ip-172-31-8-163:~#
```

The terminal window is titled "2. 15.206.185.34 (ubuntu)". The left sidebar shows a file explorer for "/home/ubuntu/" with a list of files including ".cache", ".ssh", ".bash_logout", ".bashrc", ".profile", and ".Xauthority". The bottom status bar indicates "UNREGISTERED VERSION" and provides a link to the professional edition: <https://mobaxterm.mobatek.net>.

Created a Dockerfile

15.206.185.34 (ubuntu)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/home/ubuntu/

Name

- ..
- .cache
- .ssh
- .bash_logout
- .bashrc
- .profile
- .Xauthority

Remote monitoring

☐ Follow terminal folder

```
root@ip-172-31-8-163:~/docker-fastapi-test# ls
Dockerfile  README.md  app  docker-compose.yml  requirements.txt
root@ip-172-31-8-163:~/docker-fastapi-test# cat Dockerfile
# Use the official Python image from the Docker Hub
FROM python:3.9

# Set the working directory in the container
WORKDIR /app

# Copy the requirements file and install dependencies
COPY requirements.txt ./
RUN pip install --no-cache-dir -r requirements.txt

# Copy the rest of the application code
COPY app .

# Expose the port the app runs on
EXPOSE 8000

# Command to run the application
CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "8000", "--reload"]

root@ip-172-31-8-163:~/docker-fastapi-test# vi Dockerfile
root@ip-172-31-8-163:~/docker-fastapi-test# docker compose up --build
[+] Building 1.5s (10/10) FINISHED
=> [fastapi internal] load build definition from Dockerfile
=> == transferring dockerfile: 520B
=> [fastapi internal] load .dockerignore
=> == transferring context: 2B
=> [fastapi internal] load metadata for docker.io/library/python:3.9
=> [fastapi 1/5] FROM docker.io/library/python:3.9@sha256:ed8b9dd4e9f89c111f4bdb85a55f8c9f0e22796a298449380b15f627d9914095
=> [fastapi internal] load build context
=> == transferring context: 3.60kB
=> CACHED [fastapi 2/5] WORKDIR /app
=> CACHED [fastapi 3/5] COPY requirements.txt ./
=> CACHED [fastapi 4/5] RUN pip install --no-cache-dir -r requirements.txt
=> [fastapi 5/5] COPY app .
=> [fastapi] exporting to image
```

docker:default

	0.0s
	0.0s
	0.0s
	0.0s
	1.4s
	0.0s
	0.0s
	0.0s
	0.0s
	0.0s
	0.0s
	0.0s

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

Type here to search

30°C

16:39 21/10/2024

Created Docker-compose.yml File

The screenshot shows the MobaXterm application window. The title bar indicates the connection is to 15.206.185.34 (ubuntu). The menu bar includes Terminal, Sessions, View, X server, Tools, Games, Settings, Macros, and Help. The toolbar contains icons for Session, Servers, Tools, Games, Sessions, View, Split, MultiExec, Tunneling, Packages, Settings, and Help. On the right side of the toolbar are X server and Exit buttons. A 'Quick connect...' search bar is located below the menu bar. On the left, a file explorer pane shows the directory /home/ubuntu/ with a list of files: .., .cache, .ssh, .bash_logout, .bashrc, .profile, and .Xauthority. The main terminal window displays the following commands and output:

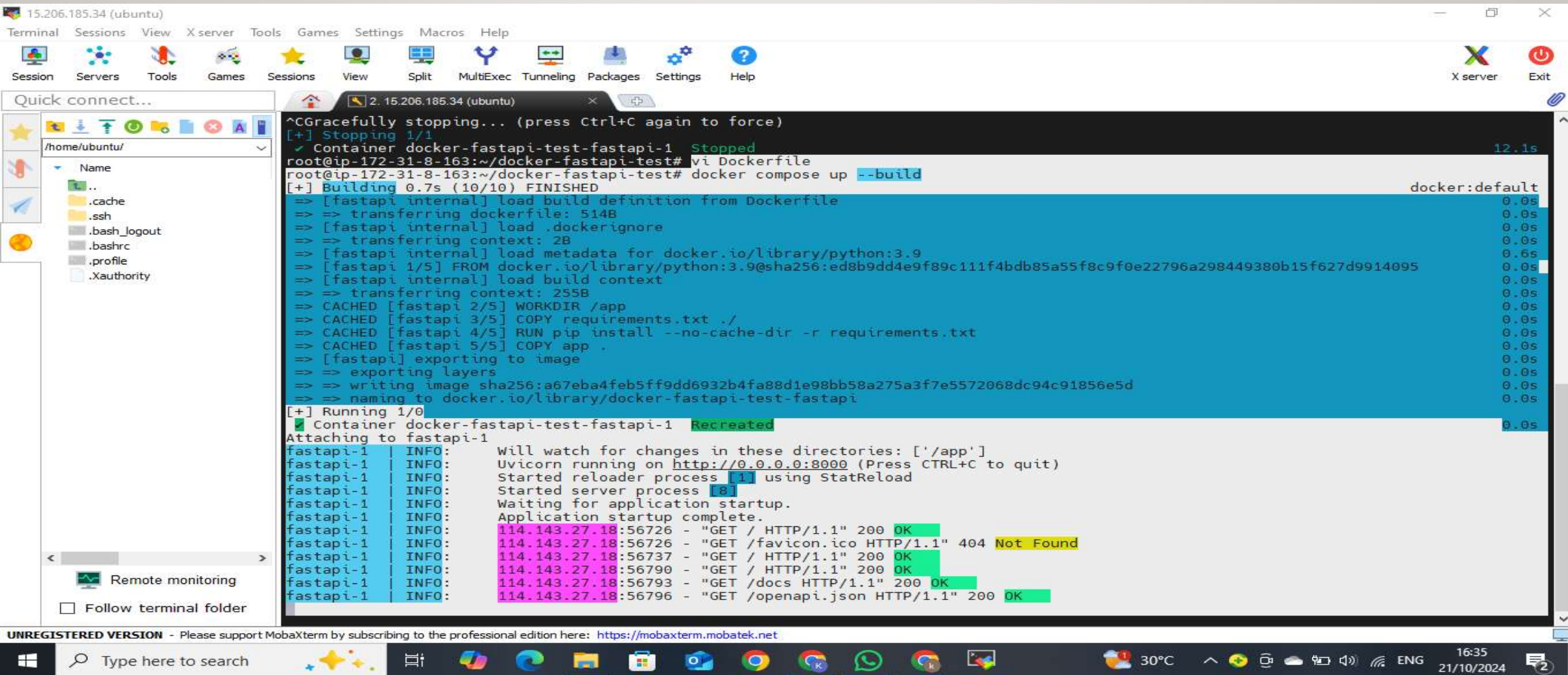
```
root@ip-172-31-8-163:~/docker-fastapi-test# ls
Dockerfile  README.md  app  docker-compose.yml  requirements.txt
root@ip-172-31-8-163:~/docker-fastapi-test# cat docker-compose.yml
version: '3.8'

services:
  fastapi:
    build:
      context: .
    ports:
      - "8000:8000"
    volumes:
      - .:/app
    environment:
      - PYTHONUNBUFFERED=1
root@ip-172-31-8-163:~/docker-fastapi-test#
```

At the bottom of the MobaXterm window, there is a status bar that reads: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>". The Windows taskbar at the very bottom shows the search bar with the text "Type here to search", several application icons, and system tray information including the temperature (30°C), time (16:39), and date (21/10/2024).

Run docker-compose using command

“docker compose up --build



The screenshot shows a MobaXterm terminal window with a Ubuntu 15.206.185.34 session. The terminal displays the following commands and output:

```
^CGracefully stopping... (press Ctrl+C again to force)
[+] Stopping 1/1
  ✓ Container docker-fastapi-test-fastapi-1 Stopped
root@ip-172-31-8-163:~/docker-fastapi-test# vi Dockerfile
root@ip-172-31-8-163:~/docker-fastapi-test# docker compose up --build
[+] Building 0.7s (10/10) FINISHED
=> [fastapi internal] load build definition from Dockerfile
=> => transferring dockerfile: 514B
=> [fastapi internal] load .dockerignore
=> => transferring context: 2B
=> [fastapi internal] load metadata for docker.io/library/python:3.9
=> [fastapi 1/5] FROM docker.io/library/python:3.9@sha256:ed8b9dd4e9f89c111f4bdb85a55f8c9f0e22796a298449380b15f627d9914095
=> [fastapi internal] load build context
=> => transferring context: 255B
=> CACHED [fastapi 2/5] WORKDIR /app
=> CACHED [fastapi 3/5] COPY requirements.txt ./
=> CACHED [fastapi 4/5] RUN pip install --no-cache-dir -r requirements.txt
=> CACHED [fastapi 5/5] COPY app .
=> [fastapi] exporting to image
=> => exporting layers
=> => writing image sha256:a67eba4feb5ff9dd6932b4fa88d1e98bb58a275a3f7e5572068dc94c91856e5d
=> => naming to docker.io/library/docker-fastapi-test-fastapi
[+] Running 1/0
  ✓ Container docker-fastapi-test-fastapi-1 Recreated
Attaching to fastapi-1
fastapi-1 | INFO: Will watch for changes in these directories: ['/app']
fastapi-1 | INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
fastapi-1 | INFO: Started reload process [1] using StatReload
fastapi-1 | INFO: Started server process [8]
fastapi-1 | INFO: Waiting for application startup.
fastapi-1 | INFO: Application startup complete.
fastapi-1 | INFO: 114.143.27.18:56726 - "GET / HTTP/1.1" 200 OK
fastapi-1 | INFO: 114.143.27.18:56726 - "GET /favicon.ico HTTP/1.1" 404 Not Found
fastapi-1 | INFO: 114.143.27.18:56737 - "GET / HTTP/1.1" 200 OK
fastapi-1 | INFO: 114.143.27.18:56790 - "GET / HTTP/1.1" 200 OK
fastapi-1 | INFO: 114.143.27.18:56793 - "GET /docs HTTP/1.1" 200 OK
fastapi-1 | INFO: 114.143.27.18:56796 - "GET /openapi.json HTTP/1.1" 200 OK
```

The terminal window also shows a file explorer on the left with the path /home/ubuntu/ and a list of files including .cache, .ssh, .bash_logout, .bashrc, .profile, and .Xauthority. The bottom of the window displays the MobaXterm interface with a search bar and system status indicators.

Taken a public ip of instance

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:

aws Services Search [Alt+S]

EC2 Dashboard
EC2 Global View
Events

▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity
Reservations [New](#)

▼ Images
AMIs
AMI Catalog

Successfully initiated termination (deletion) of i-07cbb2f11791473ba

Instances (1/2) Info Last updated about 2 hours ago [Refresh] [Connect] [Instance state ▼] [Actions ▼] [Launch instances ▼]

Find Instance by attribute or tag (case-sensitive) All states ▼

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	Nimap_Infotech	i-07cbb2f11791473ba	Terminated	t2.micro	-	View alarms +	ap-south-1
<input checked="" type="checkbox"/>	Nimap_info	i-08b1d458df6682376	Running	t2.micro	Initializing	View alarms +	ap-south-1

i-08b1d458df6682376 (Nimap_info)

▼ Instance summary Info

Instance ID i-08b1d458df6682376 (Nimap_info)	Public IPv4 address 15.206.185.34 open address	Private IPv4 addresses 172.31.8.163
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-15-206-185-34.ap-south-1.compute.amazonaws.com

CloudShell Feedback

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Run on port 8000



Pretty-print ☐

```
{"message": "Hello from FastAPI ;)"}
```

FastAPI

0.1.0 OAS3

[/openapi.json](#)

- ## default
- GET** / Index
 - GET** /users Get Users
 - POST** /users User Create

Schemas

BaseResponse >

HTTPValidationError >

THANK YOU