



**WELCOME
NIMAP INFOTECH**

1) Create EC2 instance and give the Nimap-test

The screenshot displays the AWS Management Console interface for launching an EC2 instance. The browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:`. The console header includes the AWS logo, a search bar, and the user's name 'priyanka misal'.

The main content area is titled 'following the simple steps below.' and contains two primary sections:

- Name and tags**: A text input field labeled 'Name' contains the text 'Nimap-Test'. To the right of the input field is a button labeled 'Add additional tags'.
- Application and OS Images (Amazon Machine Image)**: This section includes a search bar with the placeholder text 'Search our full catalog including 1000s of application and OS images'. Below the search bar are tabs for 'Recents' and 'Quick Start'. Under the 'Quick Start' tab, there are buttons for various operating systems: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux.

On the right side of the console, there is a 'Summary' panel with the following details:

- Number of instances**: A text input field containing the value '1'.
- Software Image (AMI)**: A dropdown menu showing a selection of AMIs.
- Virtual server type (instance type)**: A dropdown menu showing the selection 't2.micro'.
- Firewall (security group)**: A dropdown menu showing a selection of security groups.
- Storage (volumes)**: A dropdown menu showing a selection of storage options.

At the bottom of the 'Summary' panel, there are two buttons: 'Cancel' and 'Launch instance' (highlighted in orange). Below these buttons is a 'Preview code' button.

The bottom of the screenshot shows a Windows taskbar with the Start button, a search bar, and several application icons. The system tray on the right displays the date and time as '09:40 09/11/2024' and the weather as '27°C Partly cloudy'.

2) Select os Ubuntu

The screenshot displays the AWS Management Console interface for launching an EC2 instance. The browser address bar shows the URL: `ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:`. The console header includes the AWS logo, a search bar, and navigation links for Services, My Network, and WhatsApp. The main content area is titled "Launch an instance" and features a "Quick Start" tab. Under this tab, several operating system (OS) options are presented as tiles: Amazon Linux, macOS, Ubuntu (highlighted in blue), Windows, Red Hat, and SUSE Linux. Below these tiles, the "Amazon Machine Image (AMI)" section shows the selected "Ubuntu Server 24.04 LTS (HVM), SSD Volume Type" with details: `ami-0dee22c13ea7a9a67` (64-bit (x86)) / `ami-0c8eea98010057bd0` (64-bit (Arm)). The "Instance type" section is partially visible at the bottom left. On the right side, the "Summary" panel provides a overview of the configuration: "Number of instances" is set to 1, "Software Image (AMI)" is "Amazon Linux 2023 AMI 2023.6.2...", "Virtual server type (instance type)" is "t2.micro", "Firewall (security group)" is "New security group", and "Storage (volumes)" is "1 volume(s) - 8 GiB". At the bottom right of the summary panel, there are buttons for "Cancel", "Launch instance", and "Preview code". The footer of the console shows "CloudShell", "Feedback", and copyright information for Amazon Web Services, Inc. or its affiliates. The system taskbar at the very bottom includes a search bar, task icons, and system status information like "27°C Partly cloudy" and the date "09/11/2024".

Completed all procedure then start an instance and running

The screenshot displays the AWS Management Console interface for the 'ap-south-1' region. The left-hand navigation pane includes links to the Dashboard, EC2 Global View, Events, and a list of services under 'Instances' and 'Images'. The main content area is titled 'Instances (1/1)' and shows a single instance, 'Nimap-Test', with ID 'i-0152851a7a37d41d6'. The instance is in the 'Running' state, using a 't2.micro' instance type. Below the instance list, a detailed view for 'i-0152851a7a37d41d6 (Nimap-Test)' is shown, with tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. The 'Details' tab is active, displaying the Instance summary with the following information:

Instance summary	Public IPv4 address	Private IPv4 addresses
Instance ID i-0152851a7a37d41d6	13.233.154.136 open address	172.31.1.216
IPv6 address -	Instance state Running	Public IPv4 DNS -

The bottom of the screen shows the Windows taskbar with the search bar, task view button, and several application icons. The system tray indicates a temperature of 27°C, partly cloudy weather, and the date/time as 09:42 on 09/11/2024.

3) Provide security group

docker-fastapi-test/docker-con

SecurityGroup | EC2 | ap-south

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#SecurityGroup:group-id=sg-07c5847487fa36824

New folderMy NetworkWhatsAppAll Bookmarks

awsServicesSearch[Alt+S]

Mumbai

priyanka misal

Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

Images

AMIs

AMI Catalog

launch-wizard-5

sg-07c5847487fa36824

launch-wizard-5 created 2024-11-09T04:10:39.141Z

vpc-079e4ae96ff450fb7

Owner 767397657023

Inbound rules count 2 Permission entries

Outbound rules count 1 Permission entry

Inbound rules

Outbound rules

Sharing - new

VPC associations - new

Tags

Inbound rules (2)

Manage tags

Edit inbound rules

Search

	Name	Security group rule...	IP version	Type	Protocol
<input type="checkbox"/>		sgr-0bb4403f66ddb07c	IPv4	All traffic	All
<input type="checkbox"/>		sgr-06e27aed255c77c38	IPv4	SSH	TCP

CloudShellFeedback

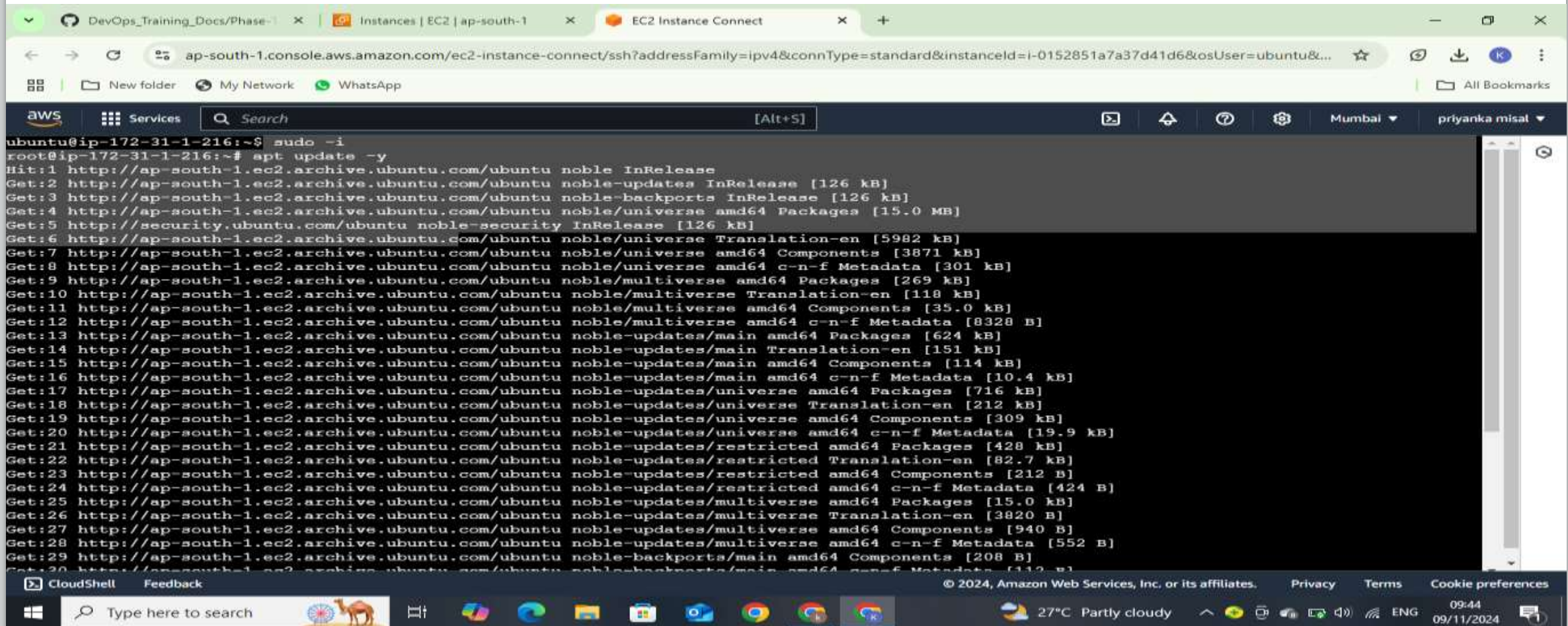
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Type here to search

27°C Partly cloudy

09:43 09/11/2024

Updated package

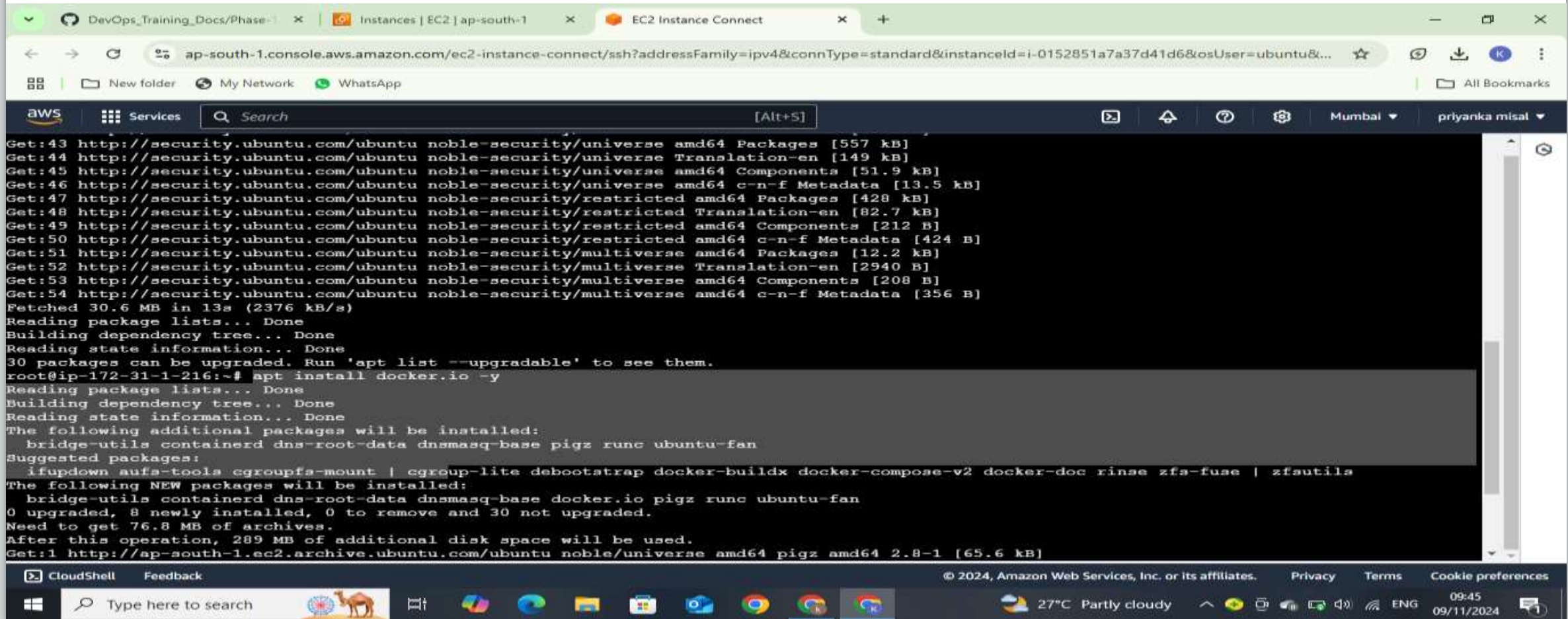


The screenshot shows a web browser window with the AWS Management Console open. The active tab is 'EC2 Instance Connect', showing a terminal session for an Ubuntu instance. The terminal output displays the results of running 'sudo apt update -y', showing various package updates and their sizes. The browser's address bar shows the URL for the EC2 Instance Connect terminal session. The bottom of the screen shows the Windows taskbar with the Start menu, search bar, and several application icons.

```
ubuntu@ip-172-31-1-216:~$ sudo -i
root@ip-172-31-1-216:~# 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 [624 kB]
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [151 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 [10.4 kB]
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [716 kB]
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [212 kB]
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [309 kB]
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [19.9 kB]
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [428 kB]
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [82.7 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/restricted amd64 c-n-f Metadata [424 B]
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [15.0 kB]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [3820 B]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [552 B]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [208 B]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [112 B]
```

Install docker using command

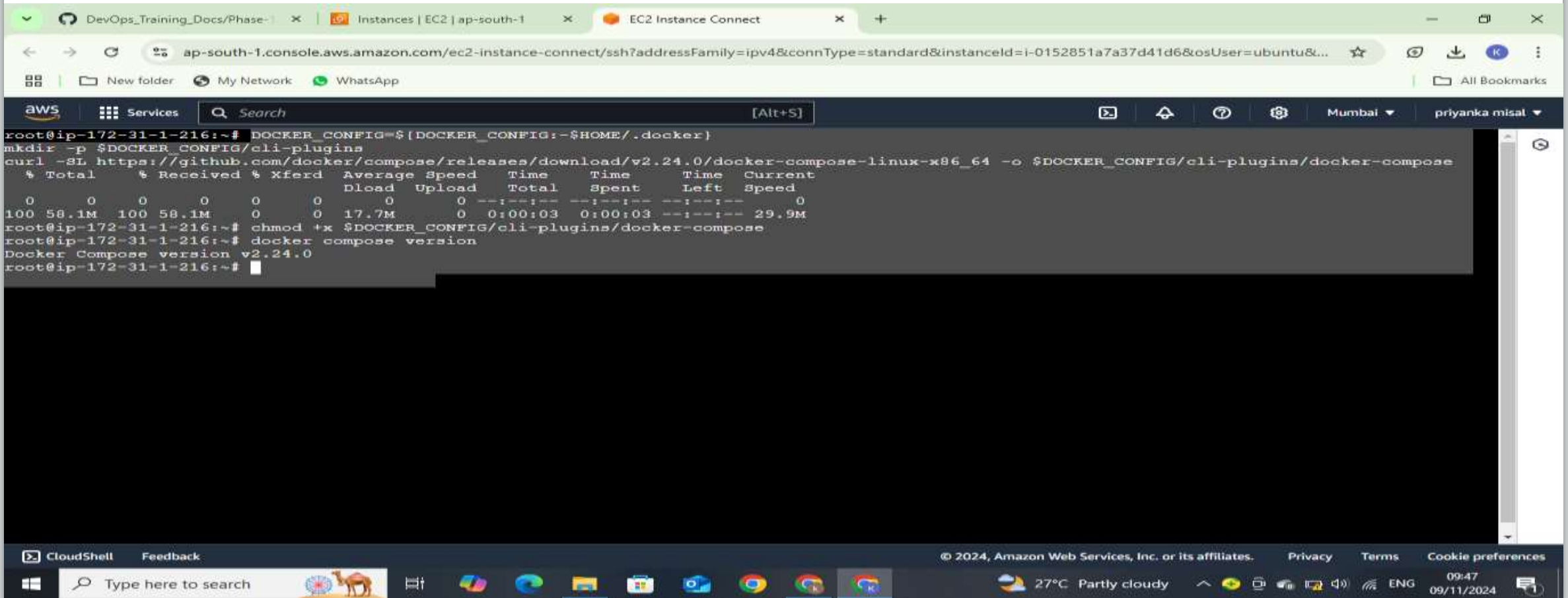
"apt install docker.io -y"



The screenshot shows a web browser window with the AWS Management Console open to the EC2 Instance Connect page. Below the browser, the AWS CloudShell terminal is active, displaying the output of the command `apt install docker.io -y`. The terminal output shows the process of fetching package lists, building the dependency tree, and installing Docker. It also lists suggested and new packages to be installed, including `bridge-utils`, `containerd`, `dns-root-data`, `dnsmasq-base`, `docker.io`, `pigz`, `runc`, and `ubuntu-fan`. The installation is successful, and the terminal shows the final state of the system.

```
Get:43 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [557 kB]
Get:44 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [149 kB]
Get:45 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [13.5 kB]
Get:47 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [428 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [82.7 kB]
Get:49 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:50 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [424 B]
Get:51 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [12.2 kB]
Get:52 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [2940 B]
Get:53 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [208 B]
Get:54 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [356 B]
Fetched 30.6 MB in 13s (2376 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
30 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@ip-172-31-1-216:~# 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 30 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]
```

after installation docker
install docker compose



```
root@ip-172-31-1-216:~# 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-compose
% 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 17.7M      0  0:00:03 0:00:03 --:--:-- 29.9M
root@ip-172-31-1-216:~# chmod +x $DOCKER_CONFIG/cli-plugins/docker-compose
root@ip-172-31-1-216:~# docker compose version
Docker Compose version v2.24.0
root@ip-172-31-1-216:~#
```

The screenshot shows a web browser window with the AWS console URL. Below the browser is the AWS CloudShell terminal interface. The terminal displays the successful installation of Docker Compose. The user sets the DOCKER_CONFIG environment variable, creates the directory, downloads the binary, and then runs 'docker compose version' which returns 'Docker Compose version v2.24.0'. The bottom of the image shows a Windows taskbar with various application icons and system information like temperature and date.

write a dockerfile and docker compose.yml file and
copied link

The screenshot shows a web browser displaying a GitHub repository page for 'Priyankamisa18830/docker-fastapi-test'. The repository is public and forked from 'RohitPatil18/docker-fastapi-test'. The 'Code' button is highlighted, and a dropdown menu is open, showing options to clone the repository using HTTPS, SSH, or GitHub CLI, or to open it with GitHub Desktop or download a ZIP file. The repository's file list is visible on the left, showing files like 'app', '.gitignore', 'Dockerfile', 'README.md', 'docker-compose.yml', and 'requirements.txt'. The right sidebar contains sections for 'About', 'Releases', and 'Packages'. The Windows taskbar is visible at the bottom, showing the time as 09:47 on 09/11/2024.

Priyankamisa18830 / docker-fastapi-test

Public

forked from RohitPatil18/docker-fastapi-test

main 1 Branch 0 Tags

Go to file

Add file

Code

Local

Codespaces

Clone

HTTPS SSH GitHub CLI

https://github.com/Priyankamisa18830/docker-fastapi-test

Clone using the web URL.

Open with GitHub Desktop

Download ZIP

About

No description, website, or topics provided.

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

27°C Partly cloudy

09:47 09/11/2024

DevOps_Training_Docs/Phase-1 x Instances | EC2 | ap-south-1 x EC2 Instance Connect x +

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-0152851a7a37d41d6&osUser=ubuntu&...

New folder My Network WhatsApp All Bookmarks

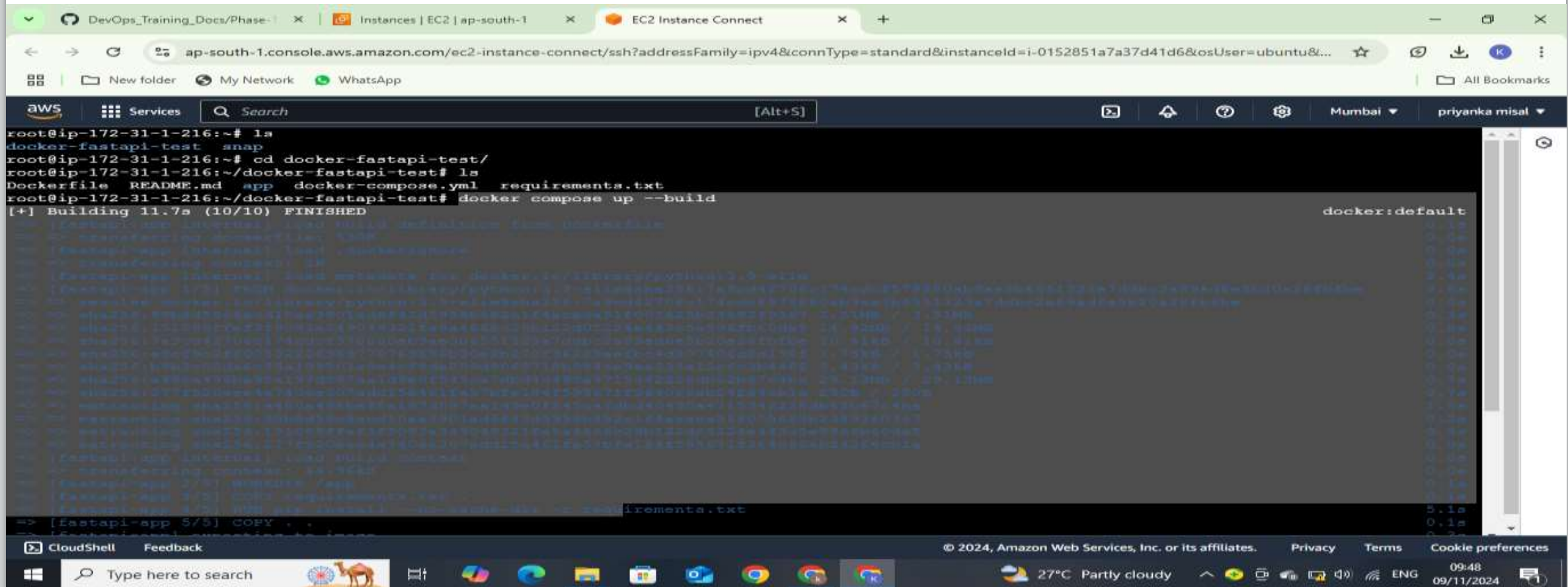
aws Services Search [Alt+S] Mumbai priyanka misal

```
root@ip-172-31-1-216:~# ls
docker-fastapi-test snap
root@ip-172-31-1-216:~# cd docker-fastapi-test/
root@ip-172-31-1-216:~/docker-fastapi-test# ls
Dockerfile README.md app docker-compose.yml requirements.txt
root@ip-172-31-1-216:~/docker-fastapi-test#
```

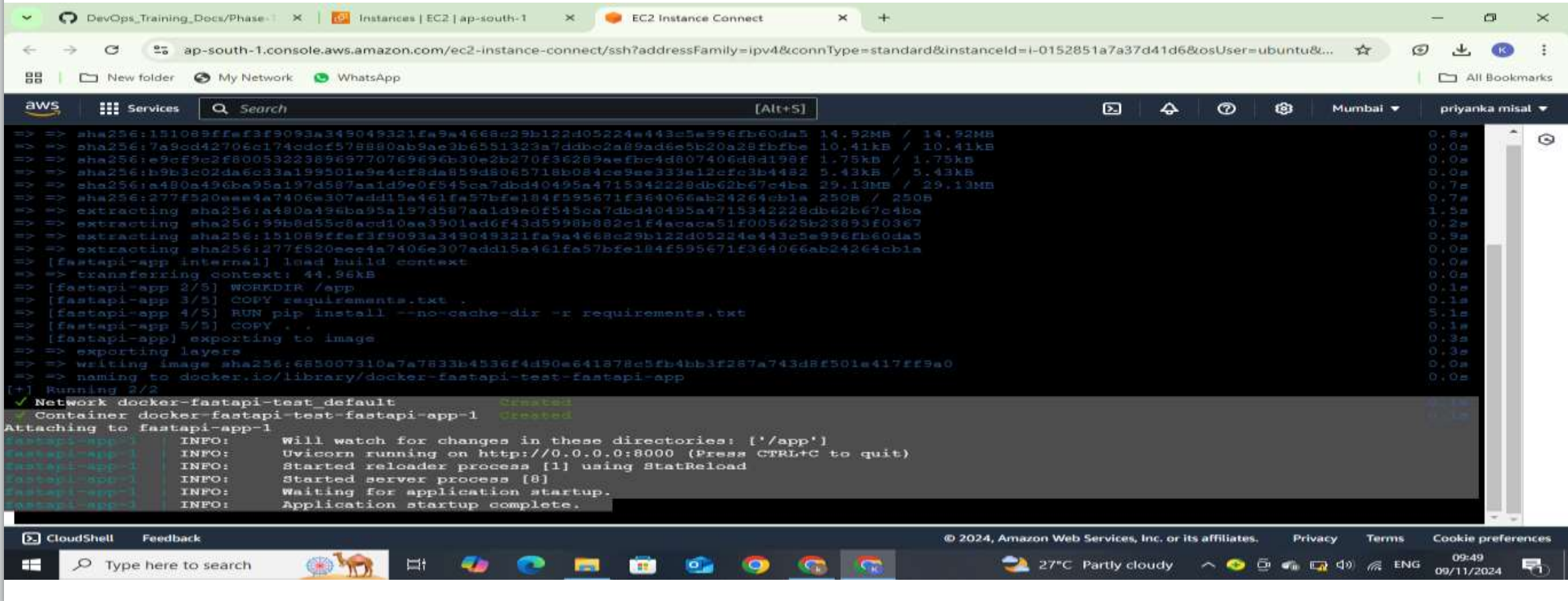
CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Type here to search 27°C Partly cloudy 09:48 09/11/2024

went to folder and run the command
'docker compose up --build



```
root@ip-172-31-1-216:~# ls
docker-fastapi-test snap
root@ip-172-31-1-216:~# cd docker-fastapi-test/
root@ip-172-31-1-216:~/docker-fastapi-test# ls
Dockerfile README.md app docker-compose.yml requirements.txt
root@ip-172-31-1-216:~/docker-fastapi-test# docker compose up --build
[+] Building 11.7s (10/10) FINISHED
=> [fastapi-app internal] load metadata for docker://python:3.9-slim
=> [fastapi-app 1/5] FROM docker://python:3.9-slim
=> [fastapi-app 2/5] WORKDIR /app
=> [fastapi-app 3/5] COPY requirements.txt
=> [fastapi-app 4/5] RUN pip install --no-cache-dir -r requirements.txt
=> [fastapi-app 5/5] COPY . .
```



taken a public ip of
instance

The screenshot displays the AWS Management Console for the 'ap-south-1' region. The 'Instances' page shows a single instance named 'Nimap-Test' with ID 'i-0152851a7a37d41d6'. The instance is in the 'Running' state and is of type 't2.micro'. The console also shows the instance's details, including its ID, state, and various addresses.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
Nimap-Test	i-0152851a7a37d41d6	Running	t2.micro	Initializing	View alarms	ap-south-1

i-0152851a7a37d41d6 (Nimap-Test)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary

Instance ID: i-0152851a7a37d41d6

IPv6 address: -

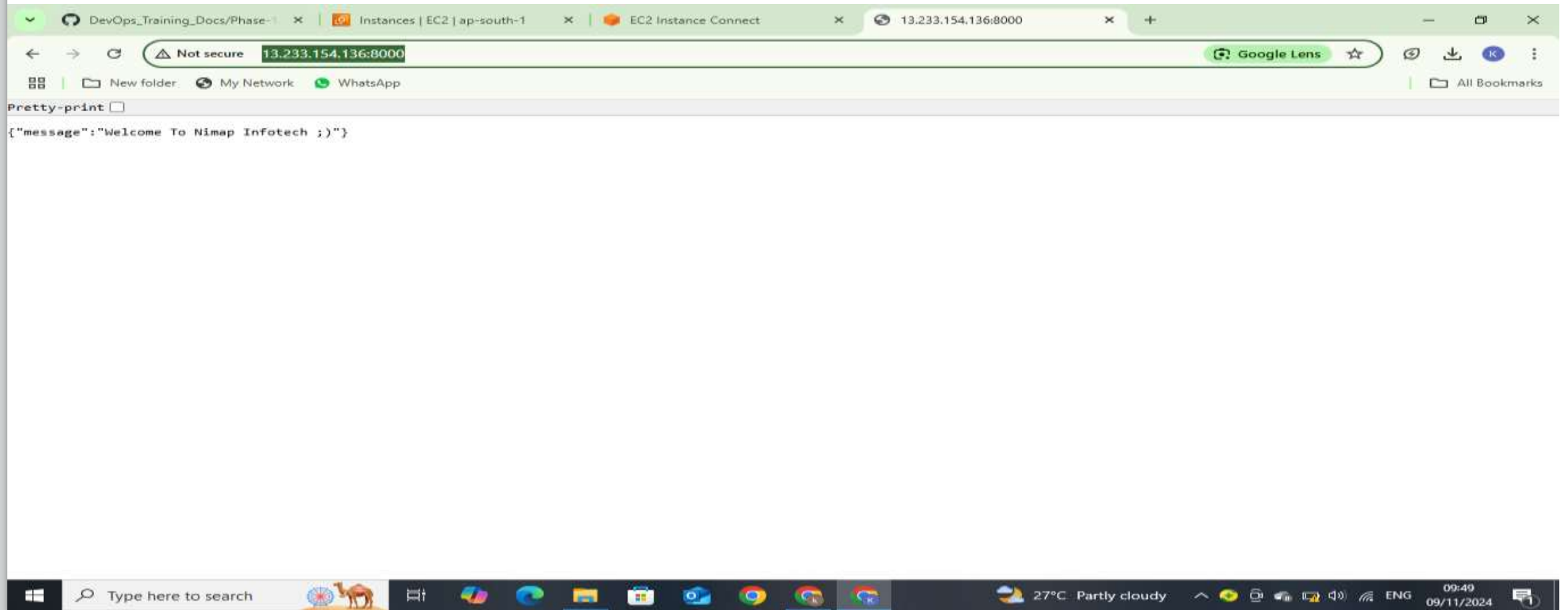
Public IPv4 address: 13.233.154.136 | [open address](#)

Private IPv4 addresses: 172.31.1.216

Public IPv4 DNS: -

Instance state: Running

successfully got the page



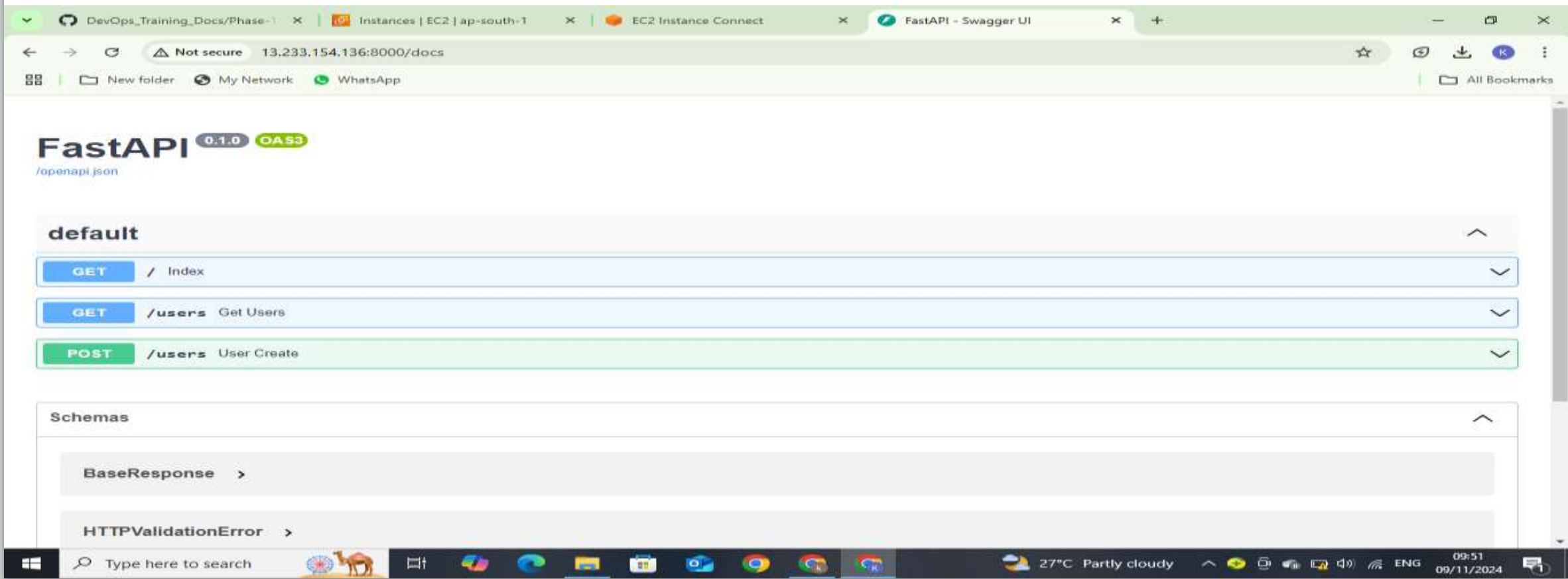
DevOps_Training_Docs/Phase-1 x Instances | EC2 | ap-south-1 x EC2 Instance Connect x 13.233.154.136:8000 x +

← → ↻ ⚠ Not secure 13.233.154.136:8000 ☆ 📷 ⬇️ K ⋮

📁 New folder 🌐 My Network 📱 WhatsApp 📁 All Bookmarks

Pretty-print ☐

```
{"message": "Welcome To Nimap Infotech ;)"}
```



THANK YOU

