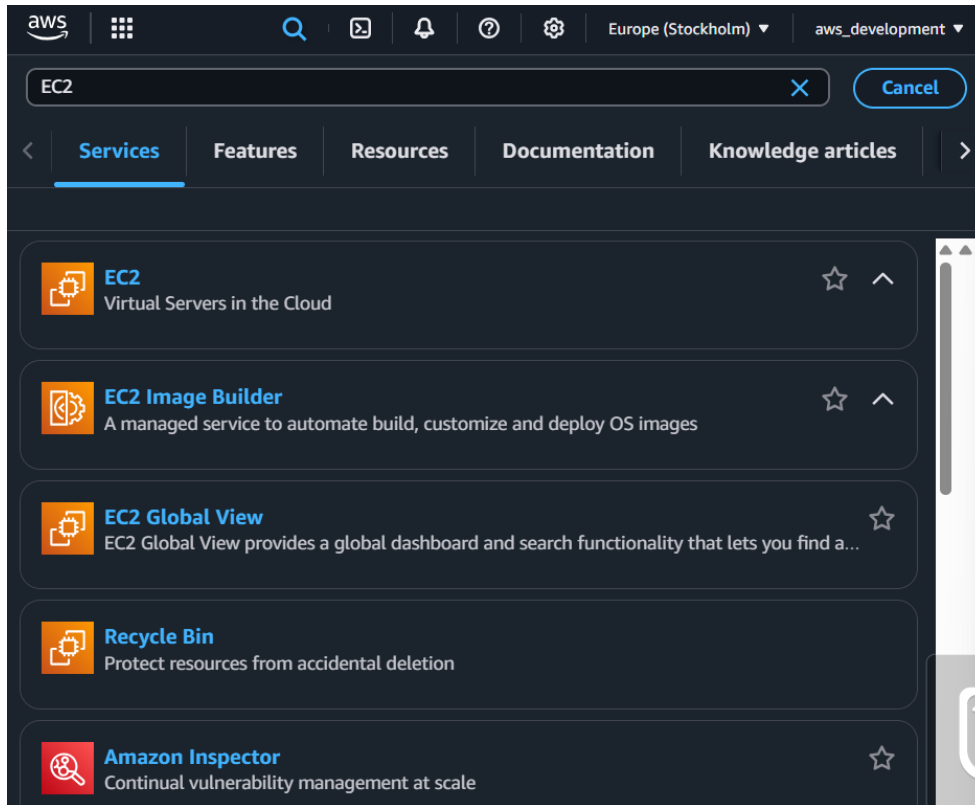


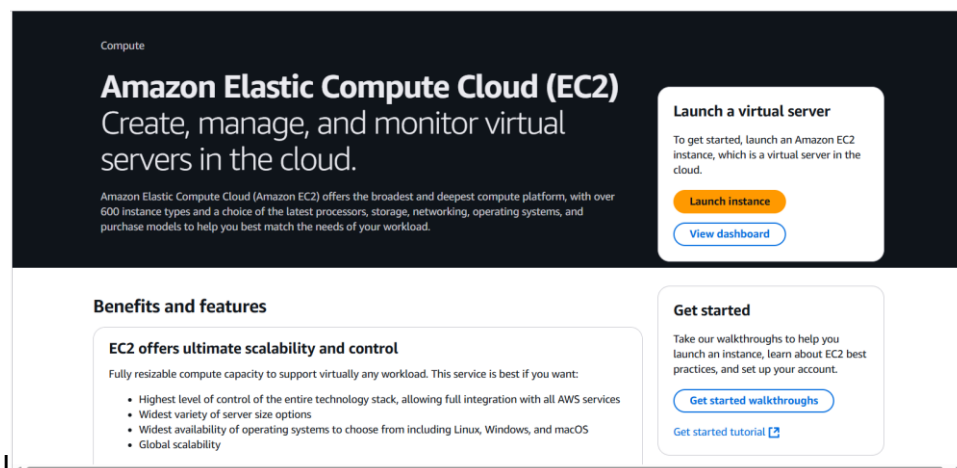
Step 1:

Go to search and Search for EC2 and Select it



Step 2:

Click on launch Instance



Step 3:

Enter Name for your EC2 instance

### Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

#### Name and tags [Info](#)

Name

[Add additional tags](#)

Step 4:

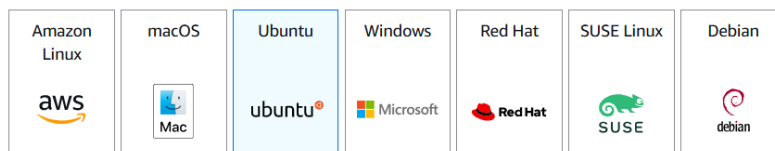
Scroll down and choose ubuntu

#### ▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Recents

**Quick Start**



[Browse more AMIs](#)  
Including AMIs from  
AWS, Marketplace and  
the Community

Step 5:

Scroll Down and In the KEY PAIR SELECT “CREATE NEW KEY PAIR”

#### ▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Select



[Create new key pair](#)

Step 6:

Enter key pair name and select .ppk and click create key pair and Save it securely

Note: we will use this key pair in further server connection Time

## Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

SECRET

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA  
RSA encrypted private and public key pair

☐ ED25519  
ED25519 encrypted private and public key pair

Private key file format

☐ .pem  
For use with OpenSSH

☒ .ppk  
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

Cancel

Create key pair

Step 7:

Scroll Down configure Storage and Enter storage according to Your Project Requirements. Choose between 10 to 20gb

## ▼ Configure storage [Info](#)

Advanced

1x  GiB  Root volume, 3000 IOPS, Not encrypted

[i](#) Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage [X](#)

[Add new volume](#)

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

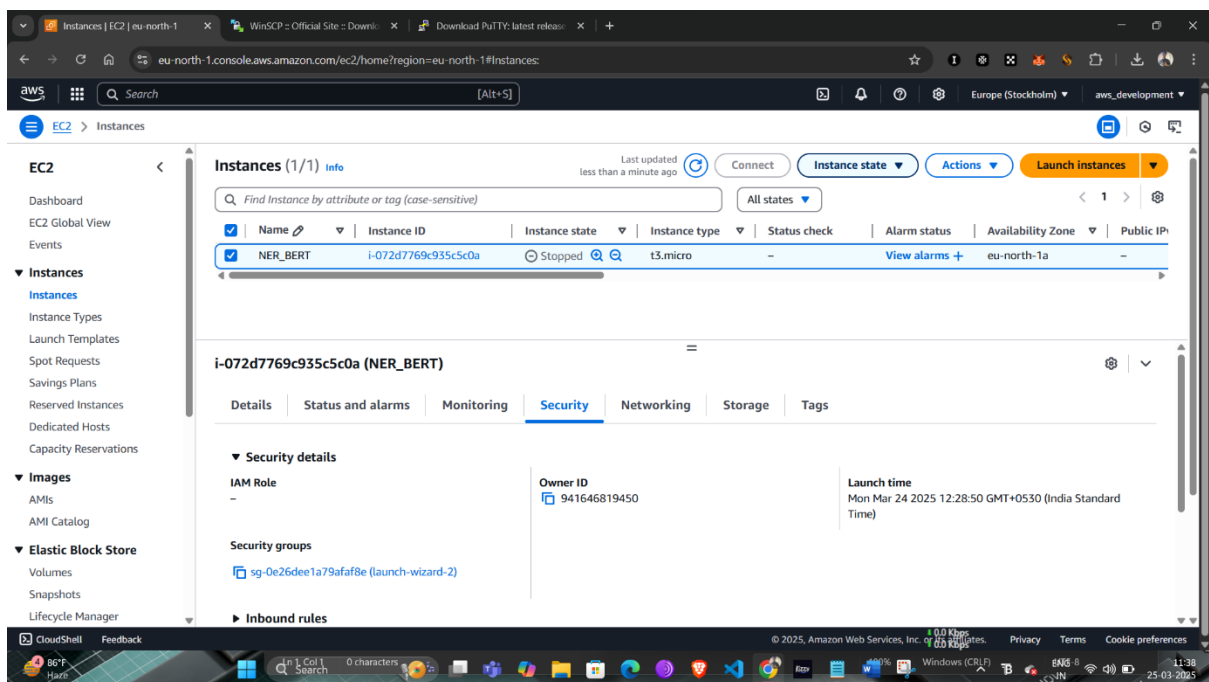
Step 8:

Scroll Down and click launch Instance

Successfully created Instance..

Step 9:

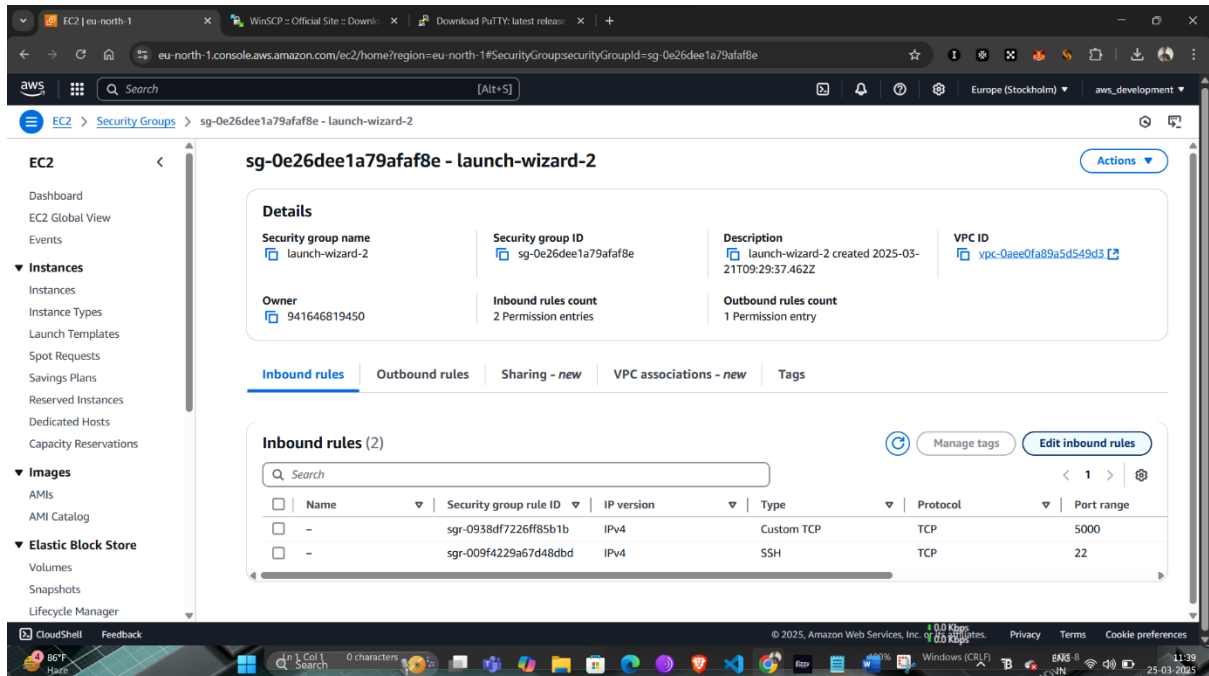
Go to your Instance and Click on the instance State and click Start



Now Go to Security > In Security Details > Click Link Below the Security Groups

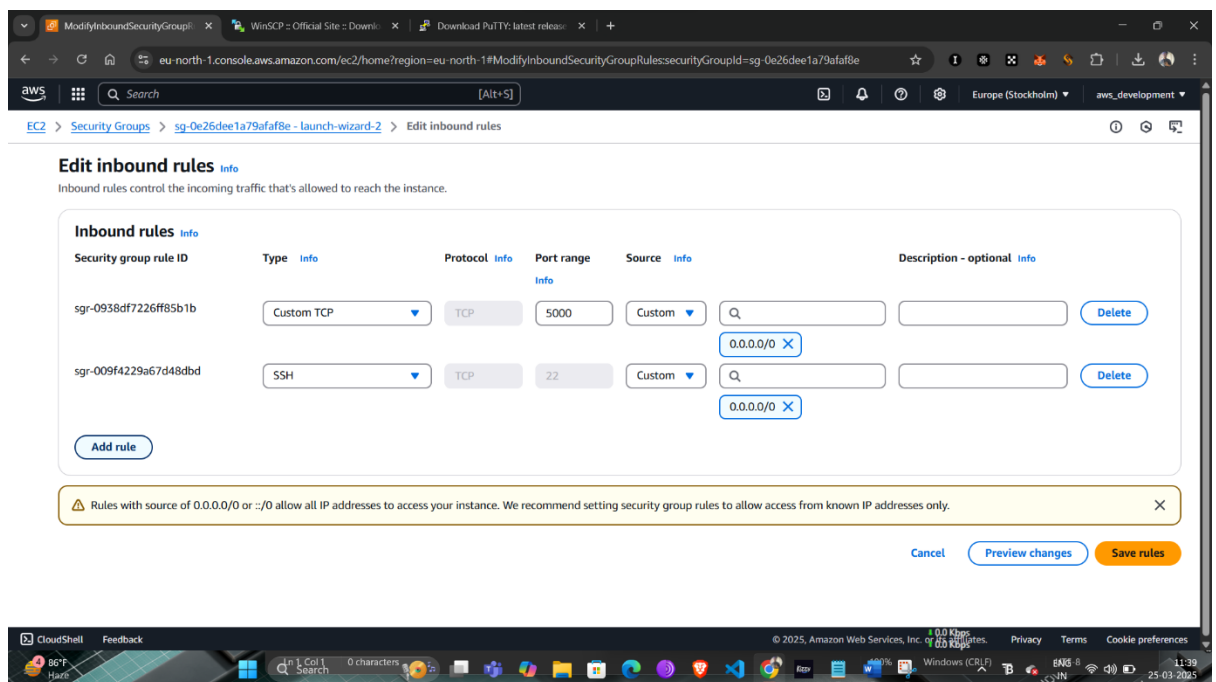
Step10:

Click Edit inbound rules



Step 11:

Click Add rule> PORT RANGE Enter “8080”> Select 0.0.0.0/0 > Click Save Rules



Step 12:

Now Download WINSCP and PUTTY

Go to: <https://winscp.net/eng/download.php> and download Winscp

Got to : <https://the.earth.li/~sgtatham/putty/latest/w64/putty-64bit-0.83-installer.msi>

and Now install the two above softwares

Step 13:

Now go to your app.py and change this lines of code

With:

```
if __name__ == "__main__":  
    app.run(debug=True)
```

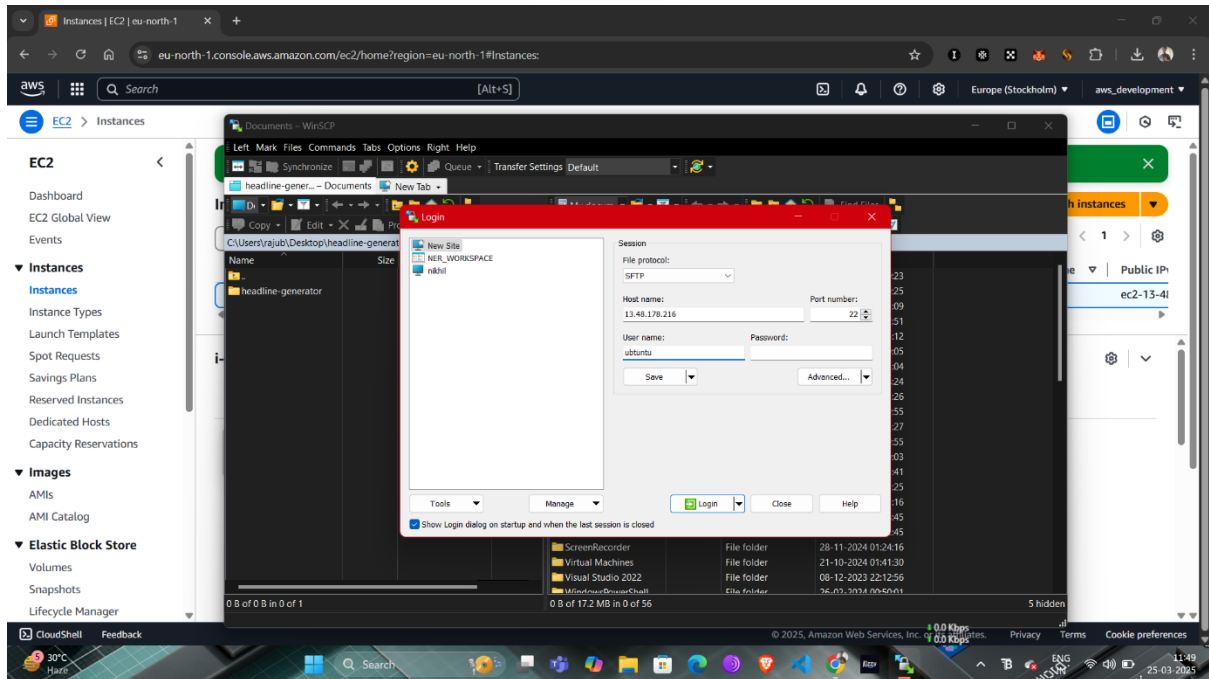
To:

```
if __name__ == '__main__':  
    app.run(host='0.0.0.0',port=8080)
```

Step 14:

1. Now Open WINSCP Software installed previously and In place of host name enter the ipv4 public address available in Your instance created in AWS network section

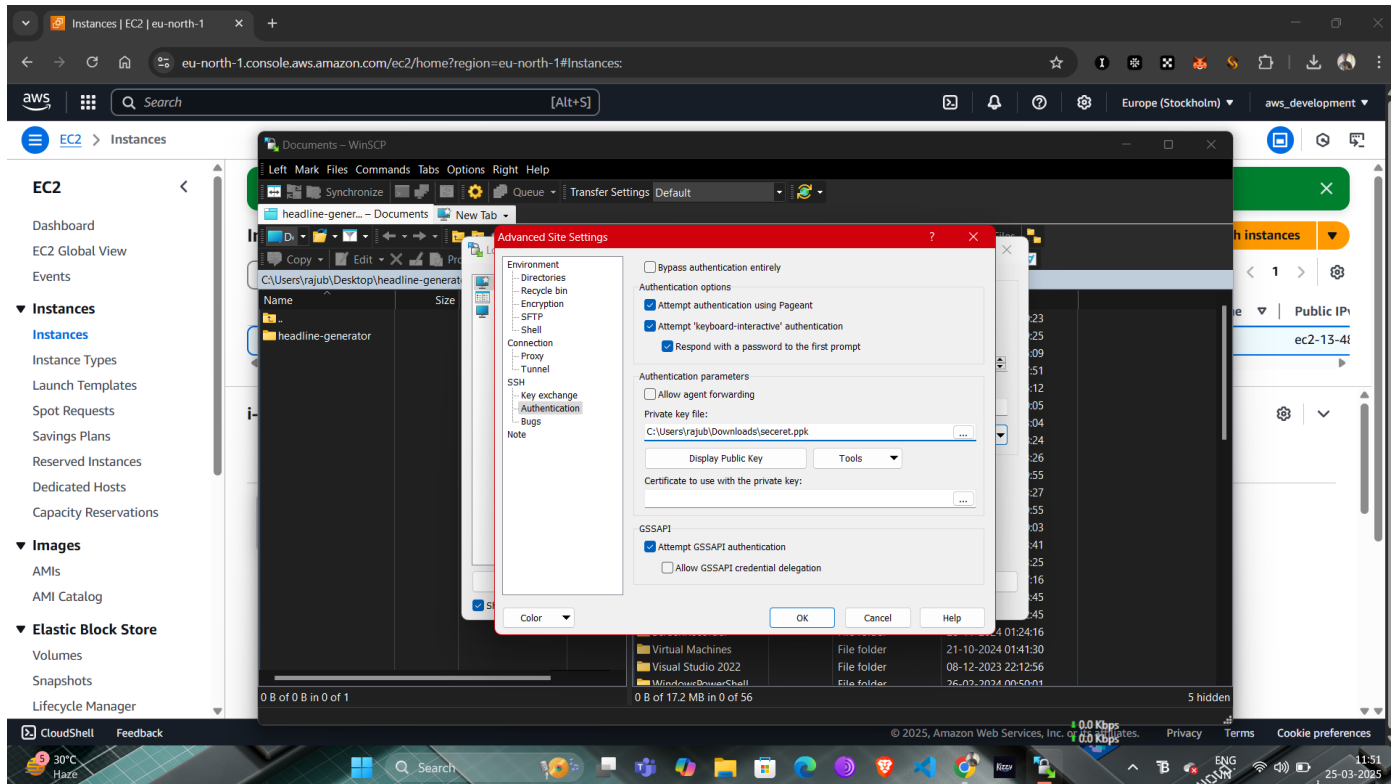
2. In Place of user name enter “ubuntu”



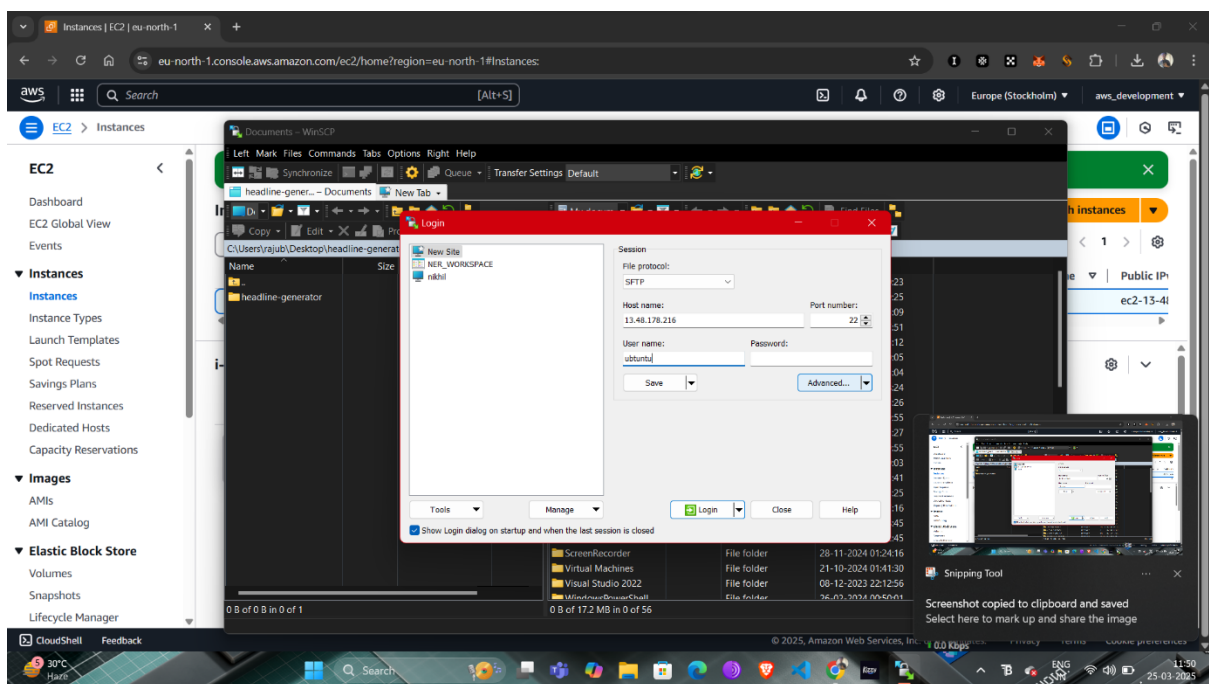
Step 15:

Now click on the Advanced and another screen appears now choose “Authentication”

2. In Place of Private KEY PAIR FILE upload your key pair which we got from aws



Step 16:



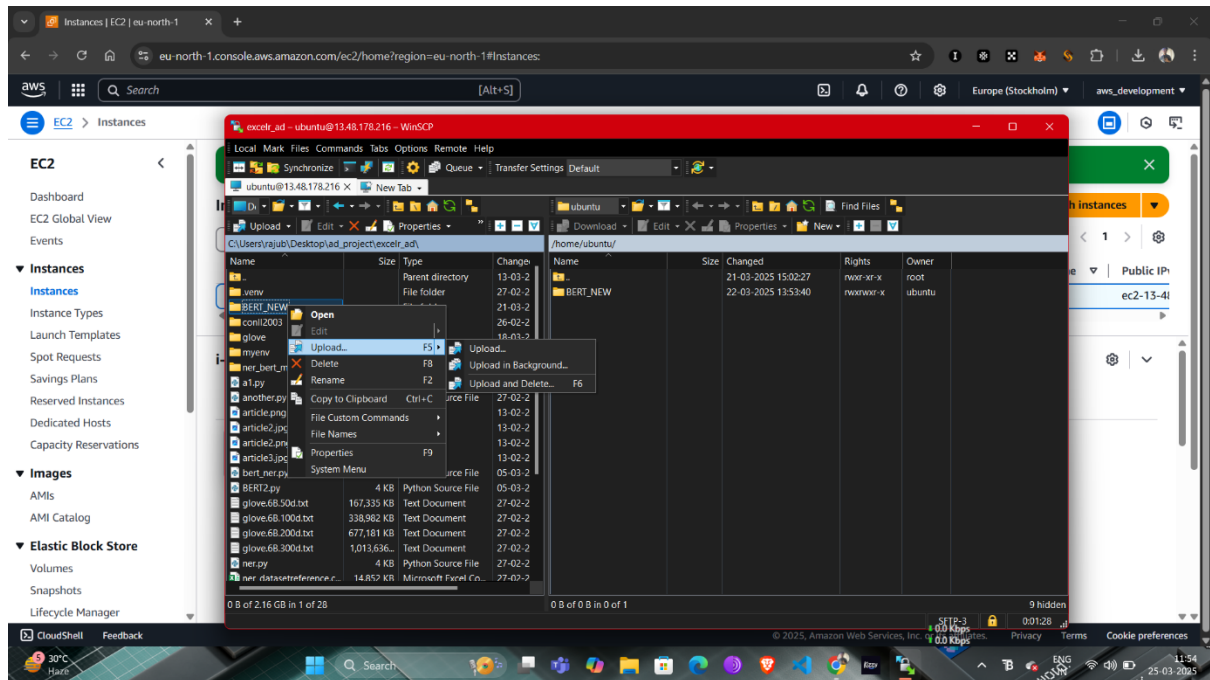
Now Click Login after upload of your key >click Accept

Note: Must start your instance so we can only connect to our instance/server



Step 17:

If Everything goes Right We get file structure with two section Left Section is the local PC files and Right Section is the Server/Instance Structure



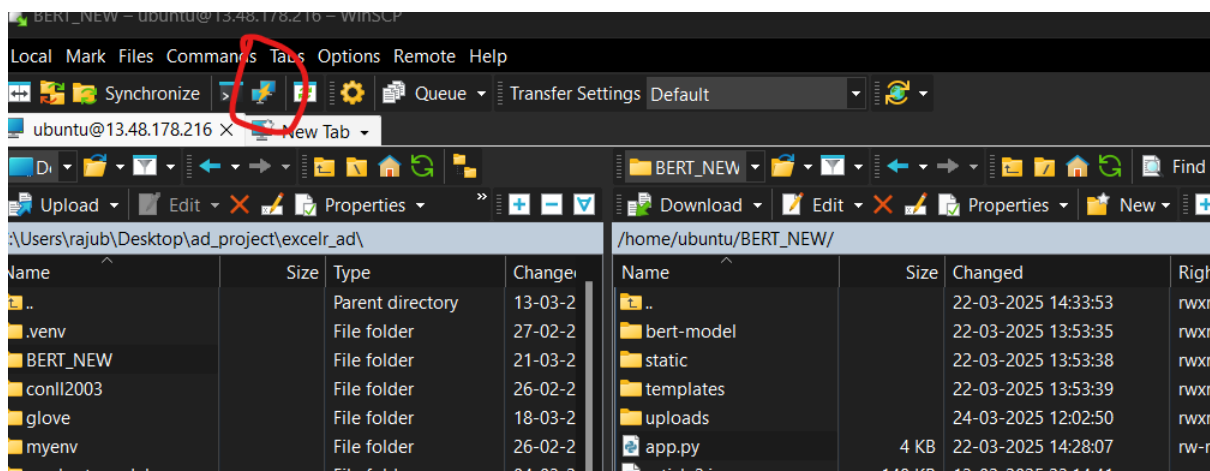
Step 18:

Now Find Your Project Folder in the left section of folders > and right click on it and click Upload

It will upload to the Instance

Step 19:

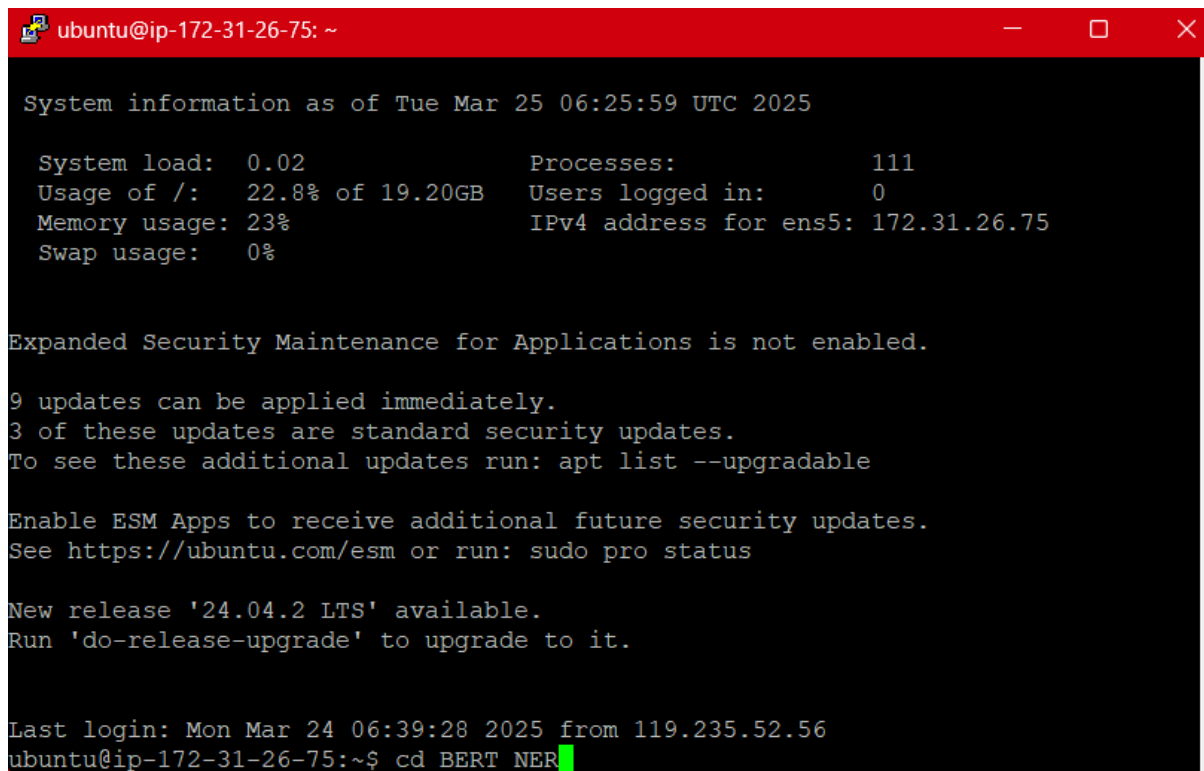
After Uploading the folder to your instance click on the icon showing the image



Step 20:

CLI will pop up and open your project in the cli

Command: `cd <project folder>`

A terminal window with a red title bar containing the text 'ubuntu@ip-172-31-26-75: ~'. The terminal output shows system information as of Tue Mar 25 06:25:59 UTC 2025. It lists system load (0.02), usage of / (22.8% of 19.20GB), memory usage (23%), swap usage (0%), processes (111), users logged in (0), and IPv4 address for ens5 (172.31.26.75). It also states that Expanded Security Maintenance for Applications is not enabled, that 9 updates can be applied immediately (3 are standard security updates), and that a new release '24.04.2 LTS' is available. The prompt shows the user has entered 'cd BERT\_NER'.

Step 21:

Now install python and pip in “AWS UBUNTU”

Command :

1. `sudo apt update && sudo apt upgrade -y`
2. `sudo apt install python3 python3-pip -y`

Now we successfully installed python in our aws server/instance

Step 22 :

Maintain a requirements.txt file in your project folder containing every module/library need to install

Command : `pip3 install -r requirements.txt`

```
ubuntu@ip-172-31-26-75: ~/BERT_NEW
System load:  0.02          Processes:      111
Usage of /:   22.8% of 19.20GB Users logged in:  0
Memory usage: 23%          IPv4 address for ens5: 172.31.26.75
Swap usage:   0%

Expanded Security Maintenance for Applications is not enabled.

9 updates can be applied immediately.
3 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '24.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Mar 24 06:39:28 2025 from 119.235.52.56
ubuntu@ip-172-31-26-75:~$ cd BERT_NER
-bash: cd: BERT_NER: No such file or directory
ubuntu@ip-172-31-26-75:~$ cd BERT_NEW
ubuntu@ip-172-31-26-75:~/BERT_NEW$ pip3 install -r requirements.txt
```

Step 23:

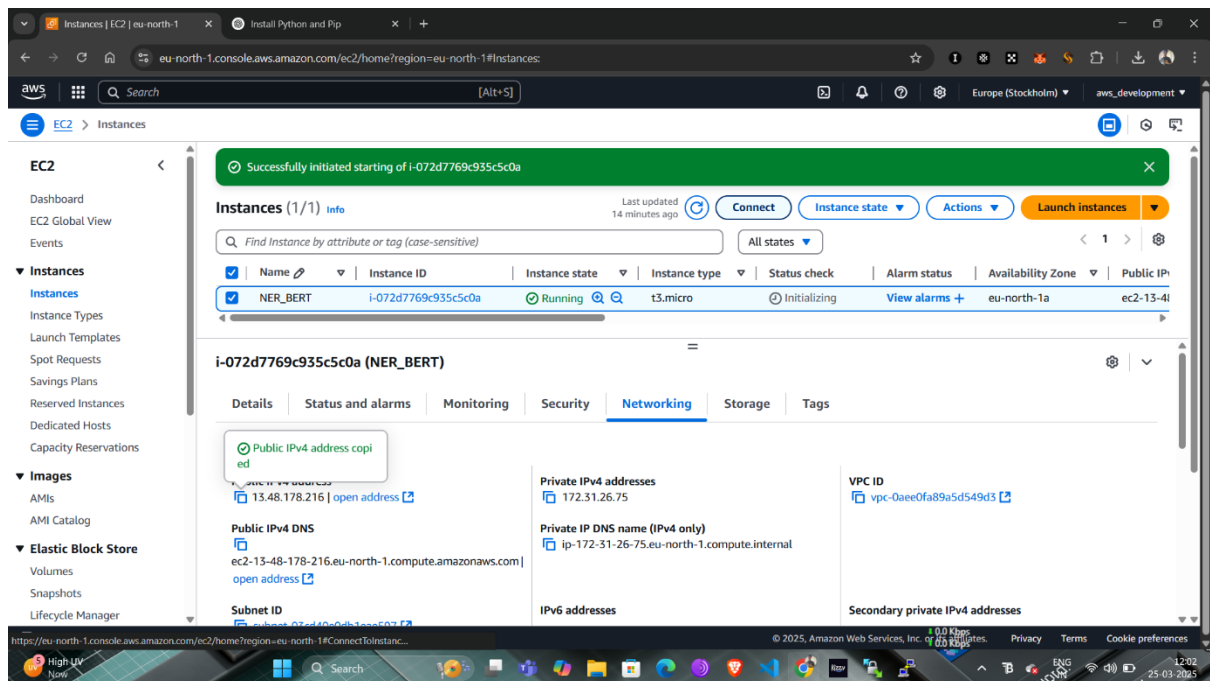
Now enter command : python3 app.py

If Every library installed successfully our project start running

```
ubuntu@ip-172-31-26-75: ~/BERT_NEW
-bash: cd: BERT_NER: No such file or directory
ubuntu@ip-172-31-26-75:~$ cd BERT_NEW
ubuntu@ip-172-31-26-75:~/BERT_NEW$ pip3 install -r requirements.txt
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: flask==2.3.3 in /home/ubuntu/.local/lib/python3.10/site-packages (from -r requirements.txt (line 1)) (2.3.3)
Collecting transformers==4.34.0
  Using cached transformers-4.34.0-py3-none-any.whl (7.7 MB)
Collecting torch==2.0.1
  Downloading torch-2.0.1-cp310-cp310-manylinux1_x86_64.whl (619.9 MB)
----- 0.2/619.9 MB 6.8 MB/s eta 0:01:31^
----- 0.6/619.9 MB 11.5 MB/s eta 0:00:54
ERROR: Operation cancelled by user
ubuntu@ip-172-31-26-75:~/BERT_NEW$ python3 app.py
Device set to use cpu
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.31.26.75:5000
Press CTRL+C to quit
```

## Step 24:

Now go to Your instance and Click connect >



Go to SSH CLIENT > Copy the 4 the line link

connect to your instance: `ec2-13-48-178-216.eu-north-1.compute.amazonaws.com` using any of these options

**EC2 Instance Connect** | **Session Manager** | **SSH client** | **EC2 serial console**

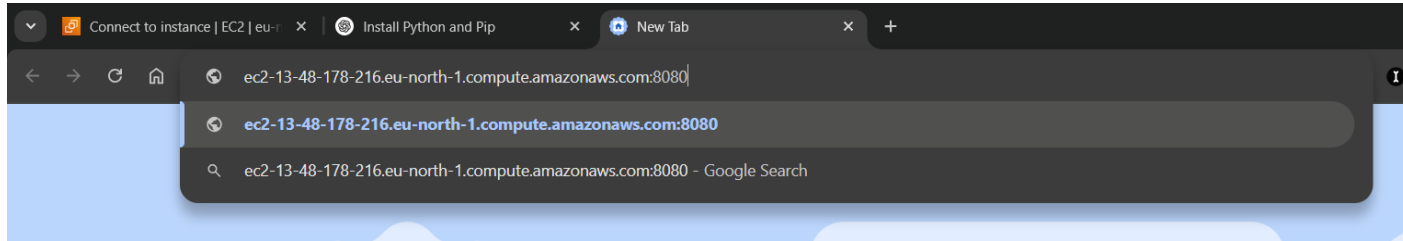
**Instance ID**  
[i-072d7769c935c5c0a \(NER\\_BERT\)](#)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is `NER_KEY.pem`
3. Run this command, if necessary, to ensure your key is not publicly viewable.  
`chmod 400 "NER_KEY.pem"`
4. Connect to your instance using its Public DNS:  
`ec2-13-48-178-216.eu-north-1.compute.amazonaws.com`

Example:  
`ssh -i "NER_KEY.pem" ubuntu@ec2-13-48-178-216.eu-north-1.compute.amazonaws.com`

**Note:** In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI o

Now add the port number after to the link “:8080”



Our project Runs successfully