

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances:

ServicesSearch[Alt+S]

N. Virginia▼sarthakd112@gmail.com @ 8864-8957-4008▼

EC2 > Instances > Launch an instance

## Launch an instance

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

Name

[Add additional tags](#)

### Application and OS Images (Amazon Machine Image)

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

RecentsQuick Start

AmazonmacOSUbuntuWindowsRed Hat

### Summary

Number of instances 1

Software Image (AMI)  
Canonical, Ubuntu, 22.04 LTS, ...read more  
ami-007855ac798b5175e

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is

Cancel

Launch instance

Review commands

CloudShellFeedbackLanguage

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Create key pair

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. 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](#)

Key pair name

sarthakkey

The name can include upto 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 (Not supported for Windows instances)

Private key file format

☒ .pem

For use with OpenSSH

☐ .ppk

For use with PuTTY

Cancel

Create key pair

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:

Instances (1/2) Info

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
demo_instance	i-0dbccd76469ebaf52	Running	t2.micro	Initializing	No alarms	us-east-1c	ec2-52-70-19
Upsearch-env	i-06faac38e375e66d3	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-3-231-20

Instance: i-0dbccd76469ebaf52 (demo\_instance)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-0dbccd76469ebaf52 (demo_instance)	Public IPv4 address 52.70.199.60   <a href="#">open address</a>	Private IPv4 addresses 172.31.82.252
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-52-70-199-60.compute-1.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-172-31-82-252.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-82-252.ec2.internal	

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ec2-3-88-231-81.compute-1.amazonaws.com (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games

Quick connect...

User sessions

- ec2-18-207-253-159.com
- ec2-3-235-177-171.comp
- ec2-3-236-216-190.comp
- ec2-3-238-112-23.compu
- ec2-3-88-231-81.comput

Session settings

SSH Telnet Rsh Xdmcp RDP VNC FTP SFTP Serial File Shell Browser Mosh Aws S3 WSL

Basic SSH settings

Remote host \* ompute-1.amazonaws.com Specify username ec2-user Port 22

Advanced SSH settings

Terminal settings Network settings Bookmark settings

☒ X11-Forwarding ☒ Compression Remote environment: Interactive shell

Execute command: Do not exit after command ends

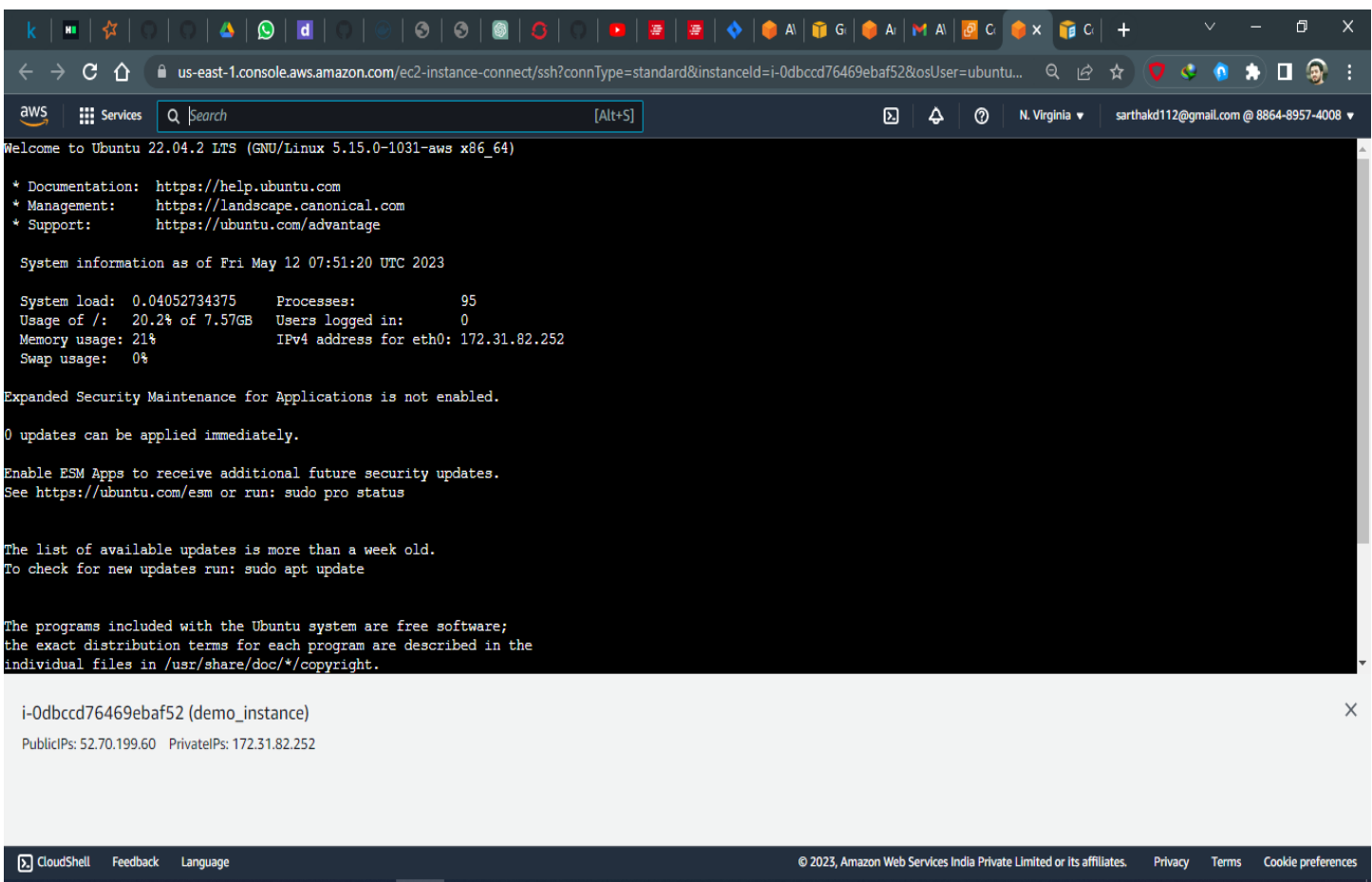
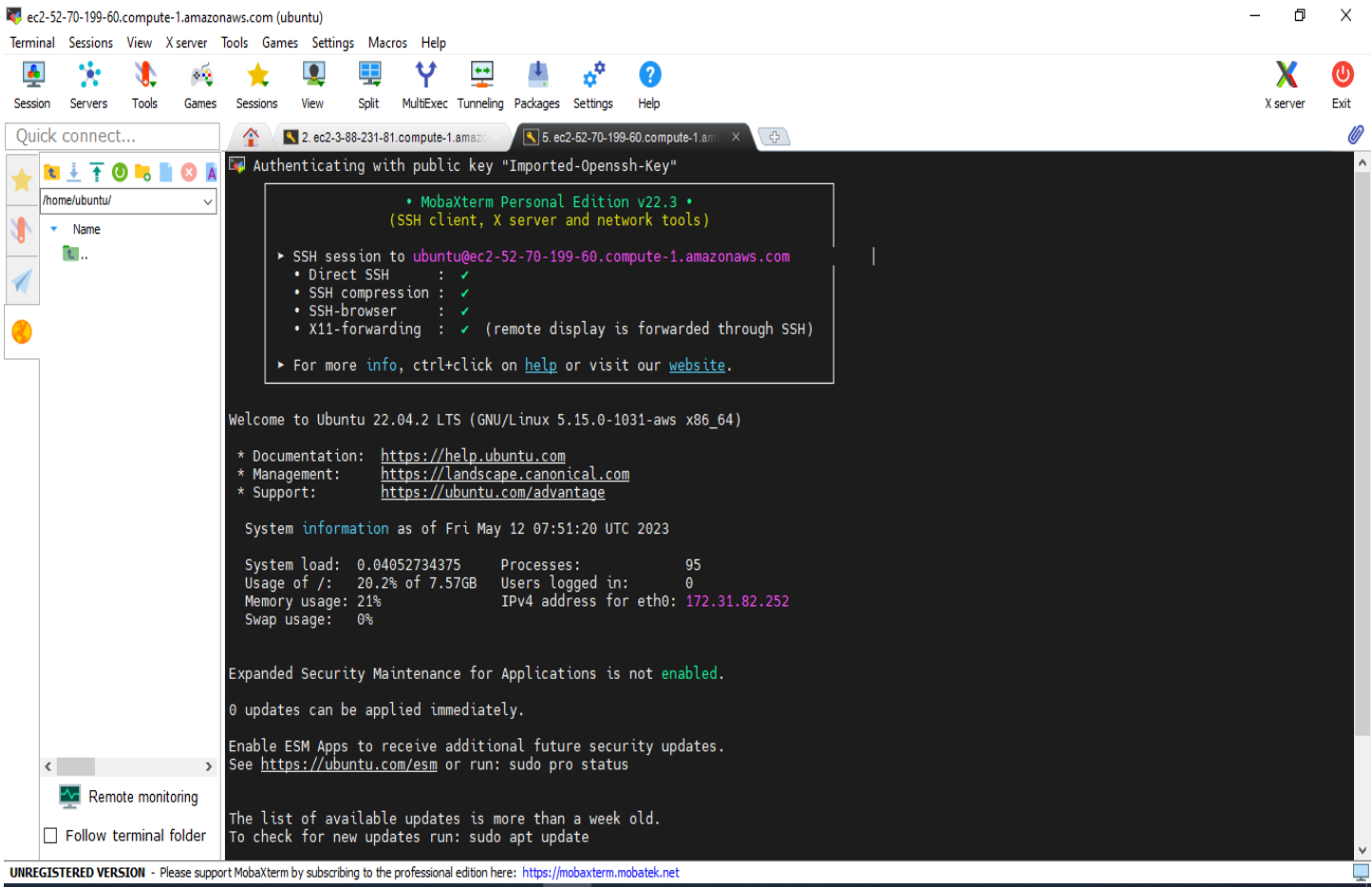
SSH-browser type: SFTP protocol Follow SSH path (experimental)

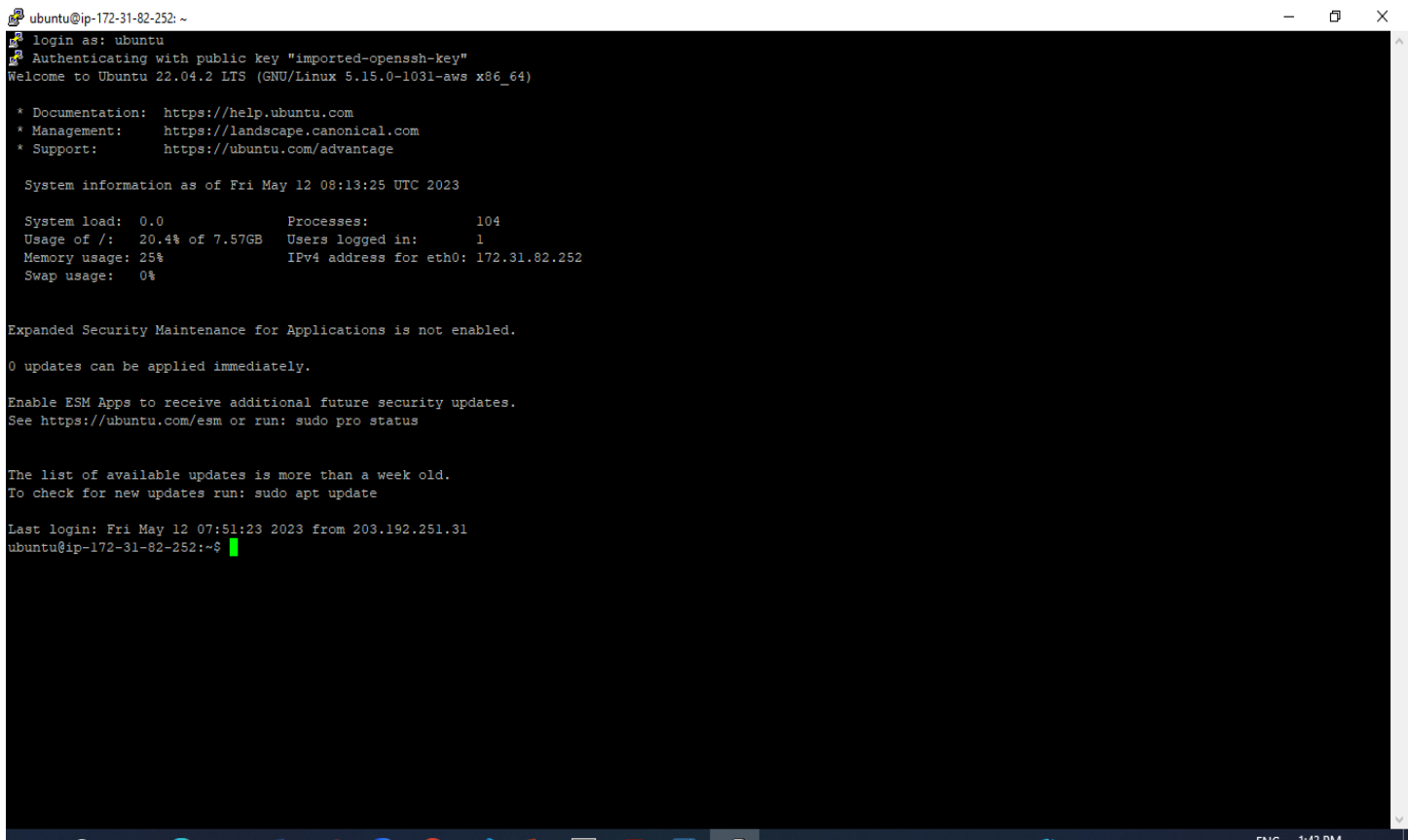
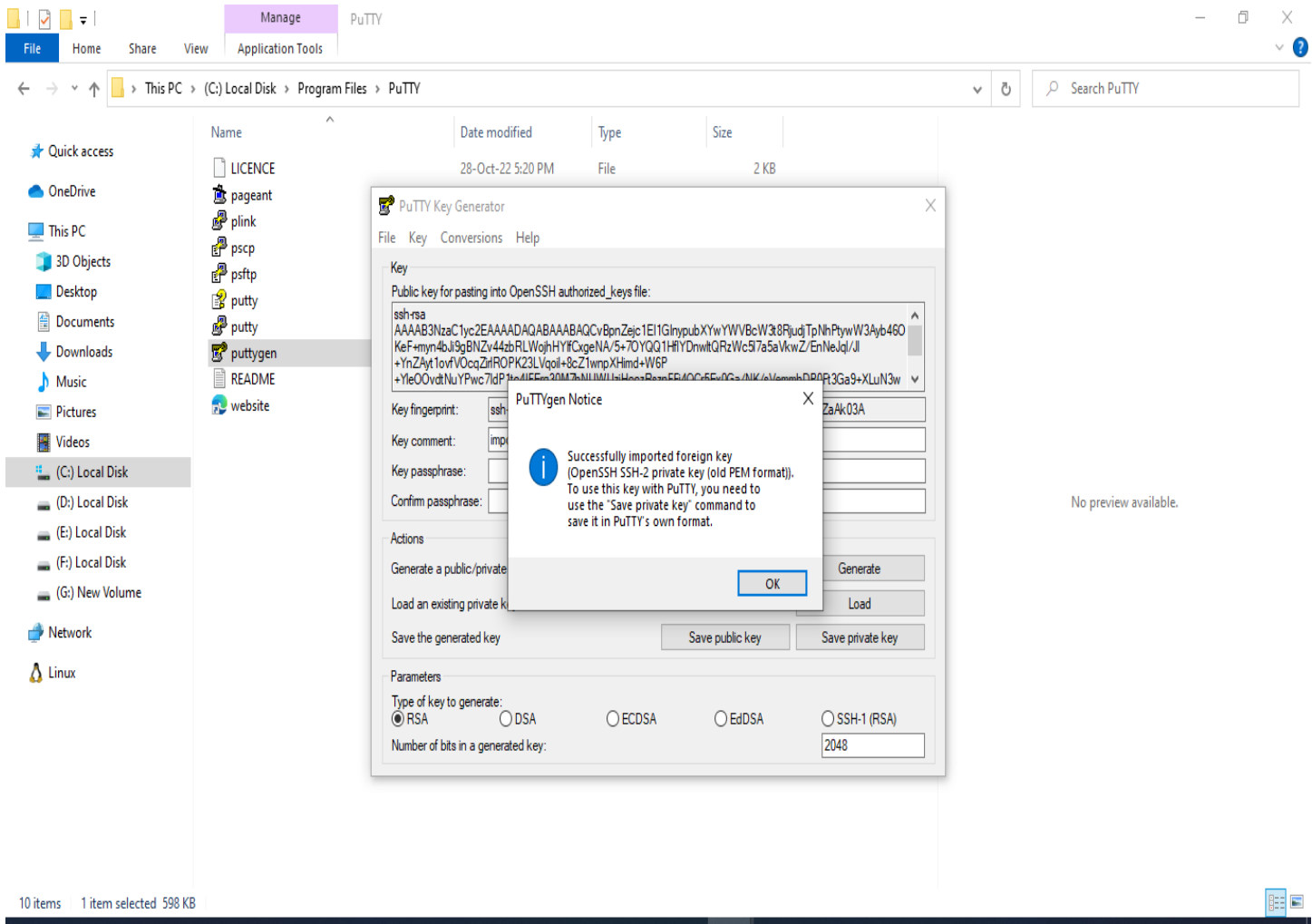
☒ Use private key C:\Users\DELL\Downloads\sarthak Expert SSH settings

Execute macro at session start: <none>

OK Cancel

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```
ubuntu@ip-172-31-82-252: ~  
login as: ubuntu  
* Authenticating with public key "imported-openssh-key"  
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-1031-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:       https://ubuntu.com/advantage  
  
System information as of Fri May 12 09:13:38 UTC 2023  
  
System load:  0.0      Processes:            108  
Usage of /:   20.4% of 7.57GB   Users logged in:     1  
Memory usage: 28%      IPv4 address for eth0: 172.31.82.252  
Swap usage:   0%  
  
* Introducing Expanded Security Maintenance for Applications.  
  Receive updates to over 25,000 software packages with your  
  Ubuntu Pro subscription. Free for personal use.  
  
  https://ubuntu.com/aws/pro  
  
Expanded Security Maintenance for Applications is not enabled.  
  
0 updates can be applied immediately.  
  
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
Last login: Fri May 12 08:13:26 2023 from 203.192.251.31  
ubuntu@ip-172-31-82-252:~$ ls  
project.py  
ubuntu@ip-172-31-82-252:~$ python3  
Python 3.10.6 (main, Mar 10 2023, 10:55:28) [GCC 11.3.0] on linux  
Type "help", "copyright", "credits" or "license" for more information.  
>>>  
KeyboardInterrupt  
>>>  
[1]+  Stopped                  python3  
ubuntu@ip-172-31-82-252:~$ python3 --version
```

```
ubuntu@ip-172-31-82-252:~  
ubuntu@ip-172-31-82-252:~$ python3 --version  
Python 3.10.6  
ubuntu@ip-172-31-82-252:~$ python3 project.py  
Traceback (most recent call last):  
  File "/home/ubuntu/project.py", line 5, in <module>  
    from tabulate import tabulate  
ModuleNotFoundError: No module named 'tabulate'  
ubuntu@ip-172-31-82-252:~$ sudo apt install python3  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
python3 is already the newest version (3.10.6-1~22.04).  
python3 set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
ubuntu@ip-172-31-82-252:~$ ls  
app.py  dockerfile  index.html  requirements.txt  
ubuntu@ip-172-31-82-252:~$ python3 app.py  
Traceback (most recent call last):  
  File "/home/ubuntu/app.py", line 1, in <module>  
    from flask import Flask, render_template  
ModuleNotFoundError: No module named 'flask'  
ubuntu@ip-172-31-82-252:~$ sudo yum install flask  
sudo: yum: command not found  
ubuntu@ip-172-31-82-252:~$ python3  
Python 3.10.6 (main, Mar 10 2023, 10:55:28) [GCC 11.3.0] on linux  
Type "help", "copyright", "credits" or "license" for more information.  
>>> pip install flask  
  File "<stdin>", line 1  
    pip install flask  
    ^^^^^^^  
SyntaxError: invalid syntax  
>>> pip install Flask  
  File "<stdin>", line 1  
    pip install Flask  
    ^^^^^^^  
SyntaxError: invalid syntax  
>>> pip install Flask  
  File "<stdin>", line 1  
    pip install Flask  
    ^^^^^^^  
SyntaxError: invalid syntax  
>>>  
[2]+  Stopped                  python3  
ubuntu@ip-172-31-82-252:~$ pip install Flask
```

ubuntu@ip-172-31-82-252: ~

```
>>>
[2]+  Stopped                  python3
ubuntu@ip-172-31-82-252:~$ pip install Flask
Command 'pip' not found, but can be installed with:
sudo apt install python3-pip
ubuntu@ip-172-31-82-252:~$ ^C
ubuntu@ip-172-31-82-252:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package python3-pip is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'python3-pip' has no installation candidate
ubuntu@ip-172-31-82-252:~$ sudo apt-get install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Package python3-pip is not available, but is referred to by another package.
This may mean that the package is missing, has been obsoleted, or
is only available from another source

E: Package 'python3-pip' has no installation candidate
ubuntu@ip-172-31-82-252:~$ ^C
ubuntu@ip-172-31-82-252:~$ ls
GUI_final.py  app.py  dockerfile  index.html  requirements.txt
ubuntu@ip-172-31-82-252:~$ python3 GUI_final.py
Traceback (most recent call last):
  File "/home/ubuntu/GUI_final.py", line 1, in <module>
    import tkinter as tk
ModuleNotFoundError: No module named 'tkinter'
ubuntu@ip-172-31-82-252:~$ ^C
ubuntu@ip-172-31-82-252:~$ sudo apt-get install python3-tk
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  blt fontconfig-config fonts-dejavu-core libfontconfig1 libtk8.6 libxft2 libxrender1 libxss1 tk8.6-blt2.5 x11-common
Suggested packages:
  blt-demo tk8.6 tix python3-tk-dbg
The following NEW packages will be installed:
  blt fontconfig-config fonts-dejavu-core libfontconfig1 libtk8.6 libxft2 libxrender1 libxss1 python3-tk tk8.6-blt2.5 x11-common
0 upgraded, 11 newly installed, 0 to remove and 0 not upgraded.
```

ubuntu@ip-172-31-82-252: ~

```
E: Package 'python3-pip' has no installation candidate
ubuntu@ip-172-31-82-252:~$ ^C
ubuntu@ip-172-31-82-252:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [578 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [166 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [14.4 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [226 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [33.7 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [604 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [887 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [182 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [18.8 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [35.3 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [8452 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [468 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [40.9 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.2 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [22.2 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [15.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [548 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [363 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [108 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [9732 B]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [225 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [33.3 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [604 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [709 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [122 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [14.3 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [30.2 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [5828 B]
```



ubuntu@ip-172-31-82-252: ~

```
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [252 B]
Fetched 24.6 MB in 4s (5664 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-82-252:~$ sudo apt-get install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  build-essential bzip2 cpp cpp-11 dpkg-dev fakeroot g++ g++-11 gcc gcc-11 gcc-11-base javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl
  libalgorithm-merge-perl libasan6 libatomic1 libc-dev-bin libc-devtools libc6-dev libc6-11 libcc1-0 libcrypt-dev libdeflate0 libdpkg-perl libexpat1-dev libfakeroot
  libfile-fcntllock-perl libgcc-11-dev libgd3 libgomp1 libisl23 libitm1 libjbig0 libjpeg-turbo8 libjpeg8 libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0
  libmpc3 libnsl-dev libpython3-dev libpython3.10-dev libquadmath0 libstdc++-11-dev libtiff5 libtirpc-dev libtsan0 libubsan1 libwebp7 libxpm4 linux-libc-dev
  lto-disabled-list make manpages-dev python3-dev python3-wheel python3.10-dev rpcsvc-proto zlib1g-dev
Suggested packages:
  bzip2-doc cpp-doc gcc-11-locales debian-keyring g++-multilib g++-11-multilib gcc-11-doc gcc-multilib autoconf automake libtool flex bison gdb gcc-doc
  gcc-11-multilib apache2 | lighttpd | httpd glibc-doc bsr libgd-tools libstdc++-11-doc make-doc
The following NEW packages will be installed:
  build-essential bzip2 cpp cpp-11 dpkg-dev fakeroot g++ g++-11 gcc gcc-11 gcc-11-base javascript-common libalgorithm-diff-perl libalgorithm-diff-xs-perl
  libalgorithm-merge-perl libasan6 libatomic1 libc-dev-bin libc-devtools libc6-dev libc6-11 libcc1-0 libcrypt-dev libdeflate0 libdpkg-perl libexpat1-dev libfakeroot
  libfile-fcntllock-perl libgcc-11-dev libgd3 libgomp1 libisl23 libitm1 libjbig0 libjpeg-turbo8 libjpeg8 libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0
  libmpc3 libnsl-dev libpython3-dev libpython3.10-dev libquadmath0 libstdc++-11-dev libtiff5 libtirpc-dev libtsan0 libubsan1 libwebp7 libxpm4 linux-libc-dev
  lto-disabled-list make manpages-dev python3-dev python3-pip python3-wheel python3.10-dev rpcsvc-proto zlib1g-dev
0 upgraded, 61 newly installed, 0 to remove and 45 not upgraded.
Need to get 70.0 MB of archives.
After this operation, 235 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libc-dev-bin amd64 2.35-0ubuntu3.1 [20.4 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 linux-libc-dev amd64 5.15.0-71.78 [1323 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libcrypt-dev amd64 1:4.4.27-1 [112 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 rpcsvc-proto amd64 1.4.2-0ubuntu6 [68.5 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libtirpc-dev amd64 1.3.2-2ubuntu0.1 [192 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libnsl-dev amd64 1.3.0-2build2 [71.3 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libc6-dev amd64 2.35-0ubuntu3.1 [2099 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 gcc-11-base amd64 11.3.0-1ubuntu1~22.04 [20.8 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libisl23 amd64 0.24-2build1 [727 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libmpc3 amd64 1.2.1-2build1 [46.9 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 cpp-11 amd64 11.3.0-1ubuntu1~22.04 [9967 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 cpp amd64 4:11.2.0-1ubuntu1 [27.7 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libcc1-0 amd64 12.1.0-2ubuntu1~22.04 [47.4 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgomp1 amd64 12.1.0-2ubuntu1~22.04 [126 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libitm1 amd64 12.1.0-2ubuntu1~22.04 [30.2 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libatomic1 amd64 12.1.0-2ubuntu1~22.04 [10.4 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libasan6 amd64 11.3.0-1ubuntu1~22.04 [2284 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 liblsan0 amd64 12.1.0-2ubuntu1~22.04 [1069 kB]
```

ubuntu@ip-172-31-82-252: ~

```
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-82-252:~$ pip install mysql-connector-python
Defaulting to user installation because normal site-packages is not writeable
Collecting mysql-connector-python
  Downloading mysql_connector_python-8.0.33-cp310-cp310-manylinux1_x86_64.whl (27.4 MB)
    ----- 27.4/27.4 MB 16.7 MB/s eta 0:00:00
Collecting protobuf<3.20.3,>=3.11.0
  Downloading protobuf-3.20.3-cp310-cp310-manylinux2_x86_64.whl (1.1 MB)
    ----- 1.1/1.1 MB 59.4 MB/s eta 0:00:00
Installing collected packages: protobuf, mysql-connector-python
Successfully installed mysql-connector-python-8.0.33 protobuf-3.20.3
ubuntu@ip-172-31-82-252:~$ python3 GUI_final.py
Traceback (most recent call last):
  File "/home/ubuntu/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 291, in _open_connection
    self._cmysql.connect(**cnx_kwargs)
mysql.connector.MySQLInterfaceError: Can't connect to MySQL server on 'localhost:3306' (111)

The above exception was the direct cause of the following exception:

Traceback (most recent call last):
  File "/home/ubuntu/GUI_final.py", line 7, in <module>
    db=mysql.connector.connect(host='localhost',user='root',password='mysql@1234',database='bank project')
  File "/home/ubuntu/.local/lib/python3.10/site-packages/mysql/connector/pooling.py", line 293, in connect
    return CMYSQLConnection(*args, **kwargs)
  File "/home/ubuntu/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 120, in __init__
    self.connect(**kwargs)
  File "/home/ubuntu/.local/lib/python3.10/site-packages/mysql/connector/abstracts.py", line 1181, in connect
    self._open_connection()
  File "/home/ubuntu/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 296, in _open_connection
    raise get_mysql_exception(
mysql.connector.errors.DatabaseError: 2003 (HY000): Can't connect to MySQL server on 'localhost:3306' (111)
ubuntu@ip-172-31-82-252:~$ ls
GUI_final.py  app.py  dockerfile  index.html  requirements.txt
ubuntu@ip-172-31-82-252:~$ python3 app.py
Traceback (most recent call last):
  File "/home/ubuntu/app.py", line 1, in <module>
```

ubuntu@ip-172-31-82-252: ~

```
File "/home/ubuntu/.local/lib/python3.10/site-packages/mysql/connector/connection_cext.py", line 296, in _open_connection
    raise get_mysql_exception(
mysql.connector.errors.DatabaseError: 2003 (HY000): Can't connect to MySQL server on 'localhost:3306' (111)
ubuntu@ip-172-31-82-252:~$ ls
GUI_final.py  app.py  dockerfile  index.html  requirements.txt
ubuntu@ip-172-31-82-252:~$ python3 app.py
Traceback (most recent call last):
  File "/home/ubuntu/app.py", line 1, in <module>
    from flask import Flask, render_template
ModuleNotFoundError: No module named 'flask'
ubuntu@ip-172-31-82-252:~$ pip install flask
Defaulting to user installation because normal site-packages is not writeable
Collecting flask
  Downloading Flask-2.3.2-py3-none-any.whl (96 kB)
    ----- 96.9/96.9 KB 2.4 MB/s eta 0:00:00
Collecting Jinja2>=3.1.2
  Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)
    ----- 133.1/133.1 KB 9.1 MB/s eta 0:00:00
Collecting Werkzeug>=2.3.3
  Downloading Werkzeug-2.3.4-py3-none-any.whl (242 kB)
    ----- 242.5/242.5 KB 26.0 MB/s eta 0:00:00
Collecting click>=8.1.3
  Downloading click-8.1.3-py3-none-any.whl (96 kB)
    ----- 96.6/96.6 KB 14.4 MB/s eta 0:00:00
Collecting itsdangerous>=2.1.2
  Downloading itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting blinker>=1.6.2
  Downloading blinker-1.6.2-py3-none-any.whl (13 kB)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/lib/python3/dist-packages (from Jinja2>=3.1.2->flask) (2.0.1)
Collecting MarkupSafe>=2.0
  Downloading MarkupSafe-2.1.2-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
Installing collected packages: MarkupSafe, itsdangerous, click, blinker, Werkzeug, Jinja2, flask
WARNING: The script flask is installed in '/home/ubuntu/.local/bin' which is not on PATH.
Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed Jinja2-3.1.2 MarkupSafe-2.1.2 Werkzeug-2.3.4 blinker-1.6.2 click-8.1.3 flask-2.3.2 itsdangerous-2.1.2
ubuntu@ip-172-31-82-252:~$ python3 app.py
* 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://172.31.82.252:5000
Press CTRL+C to quit
```

