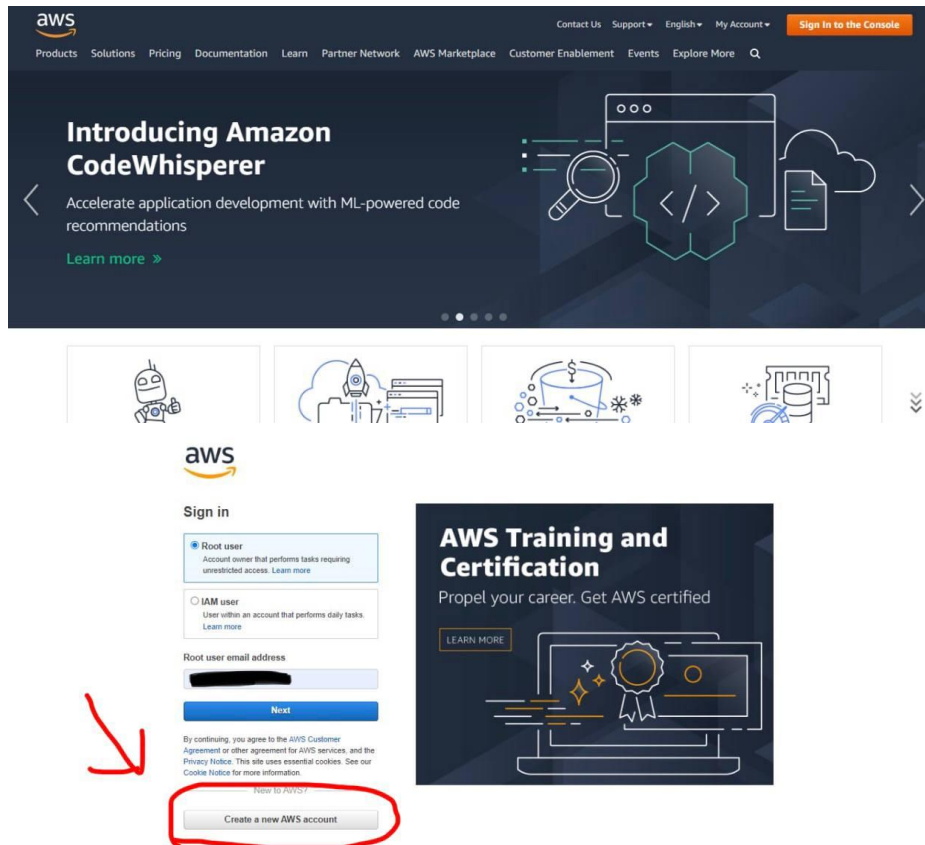


1. Реєстрація

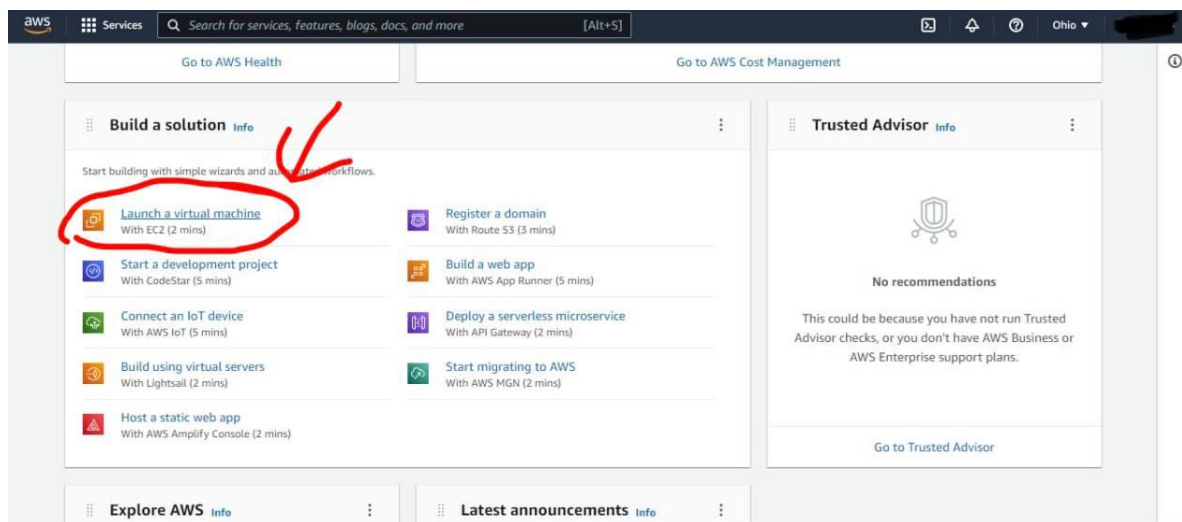
Зареєструйтесь на сайті, потім увійдіть в свій акаунт



Далі почекайте 1-2 години поки амазон верифікує ваш акаунт

2. Створення сервера

Натисніть **“Launch a virtual machine”**



Вкажіть ім'я сервера

Services Search for services, features, blogs, docs, and more [Alt+S]

EC2 > Instances > Launch an 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](#)

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

Summary

Number of instances Info

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-02d1e544b84bf7502

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](#)

Оберіть налаштування ядра сервера як показано на скріншоту

Services Search for services, features, blogs, docs, and more [Alt+S]

Recents Quick Start

Amazon Linux Ubuntu Windows Red Hat SUSE Linux [Browse more AMIs](#)

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-02f3416038bdb17fb (64-bit (x86)) / ami-0ff596d41505819fd (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs Free tier eligible

Description
Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2022-06-09

Architecture AMI ID
ami-02f3416038bdb17fb

Summary

Number of instances Info

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-02f3416038bdb17fb

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](#)

Instance type
t2.micro Free tier eligible [Compare instance types](#)

Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour

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*
 [Create new key pair](#)

Network settings [Edit](#)

Network
vpc-05703133cd594b82b

Subnet
No preference (Default subnet in any availability zone)

Auto-assign public IP

Summary

Number of instances Info

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-02f3416038bdb17fb

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](#)

Натисніть **“Create new key pair”** для створення ключа для входу у сервер, придумайте ім'я для ключа, оберіть налаштування як показано на скріншоту, натисніть **“Create key pair”** і встановіть ключ

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](#)

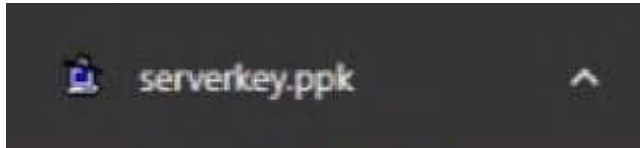
Key pair name
serverkey

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 (Not supported for Windows instances)

Private key file format
☐ .pem
 For use with OpenSSH
☒ .ppk
 For use with PuTTY

Cancel **Create key pair**



Виберіть необхідну вам пам'ять і натисніть **“Edit”** (Зауважте що максимальна пам'ять - 30 GB)

serverkey Create new key pair

Network settings Edit

Configure storage Info Advanced

1x 10 GiB gp2 Root volume

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

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

0 x File systems Edit

Advanced details Info

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-02f3416038bdb17fb

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 10 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**

Все готово, тепер натисніть **“Launch instance”** щоб створити сервер

Storage (volumes) Info Simple

EBS Volumes Hide details

Volume 1 (AMI Root) (Custom) (10 GiB, EBS, General purpose SSD (gp2))

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

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

File systems Hide details

You currently don't have any file systems on this instance. You need to select a subnet before you can add a file system.

Advanced details Info

Summary

Number of instances Info
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...read more
ami-02f3416038bdb17fb

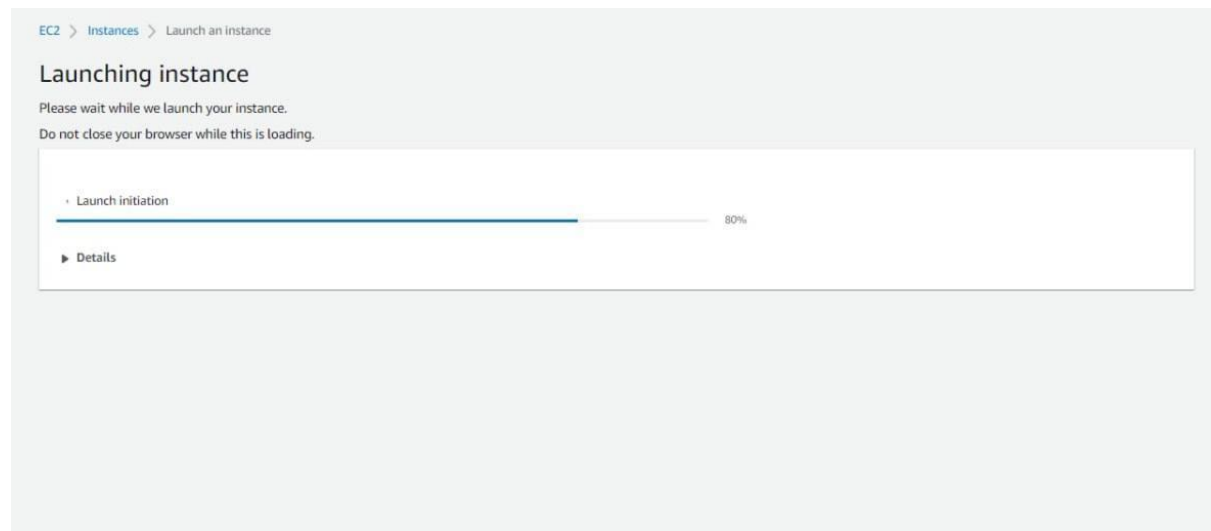
Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

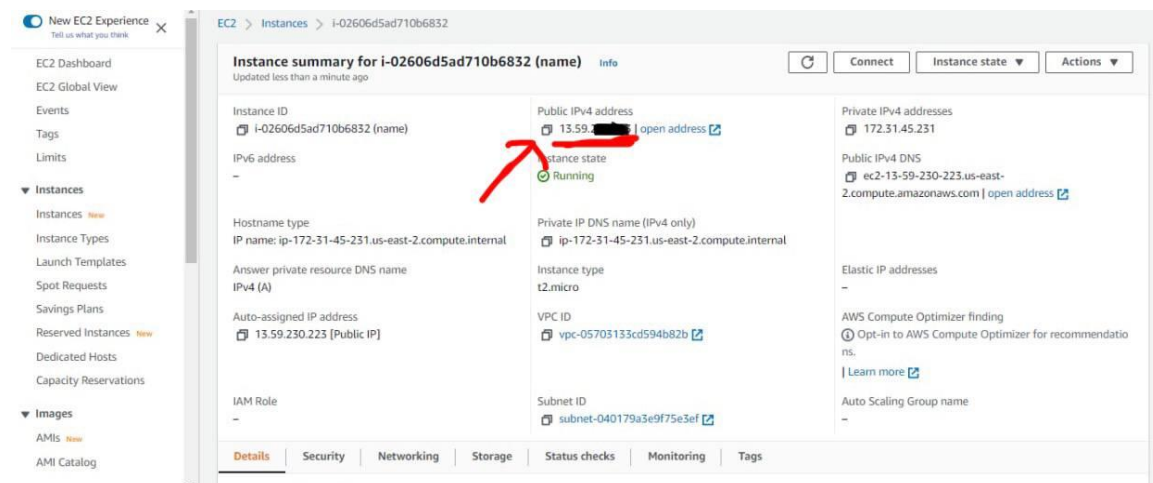
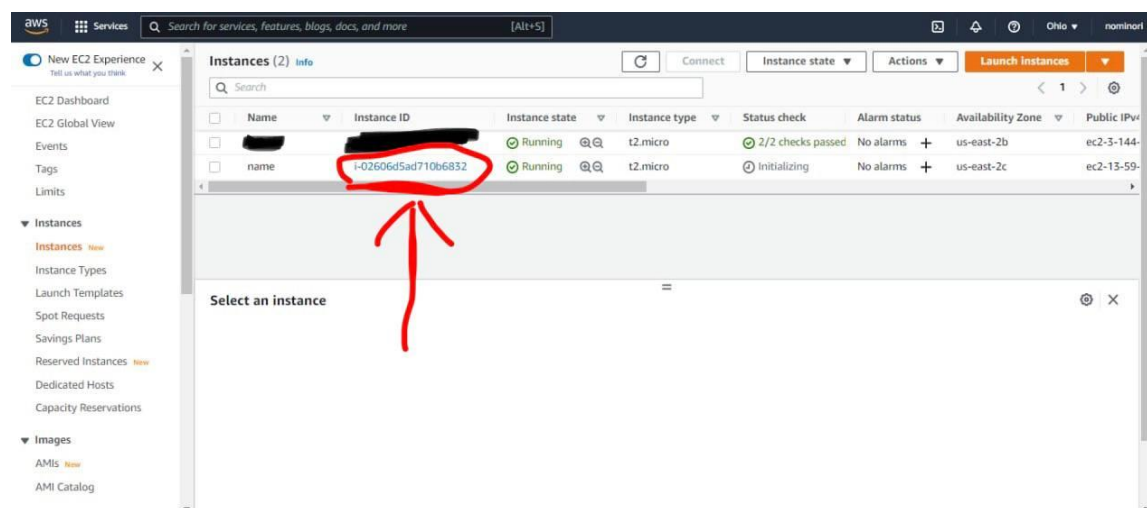
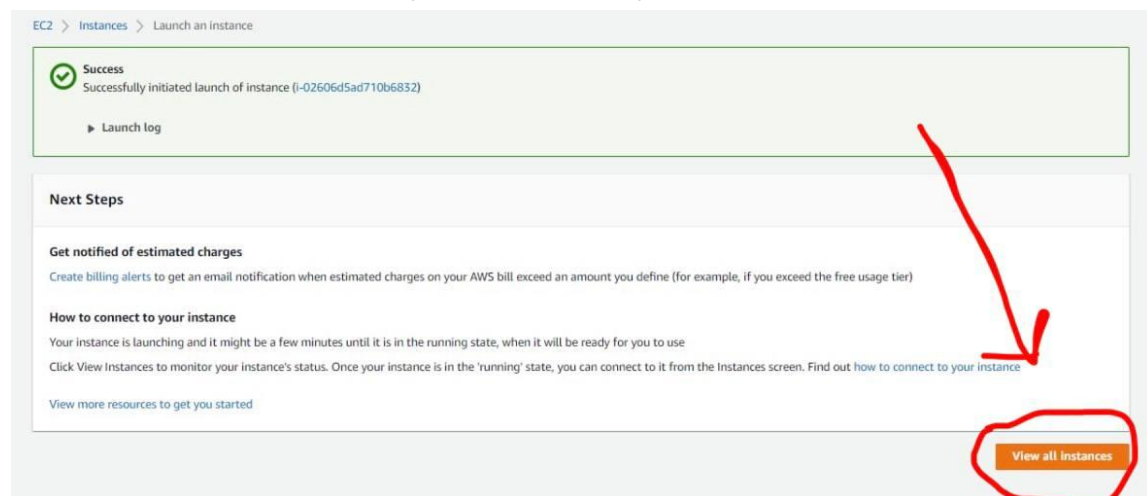
Storage (volumes)
1 volume(s) - 10 GiB

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**



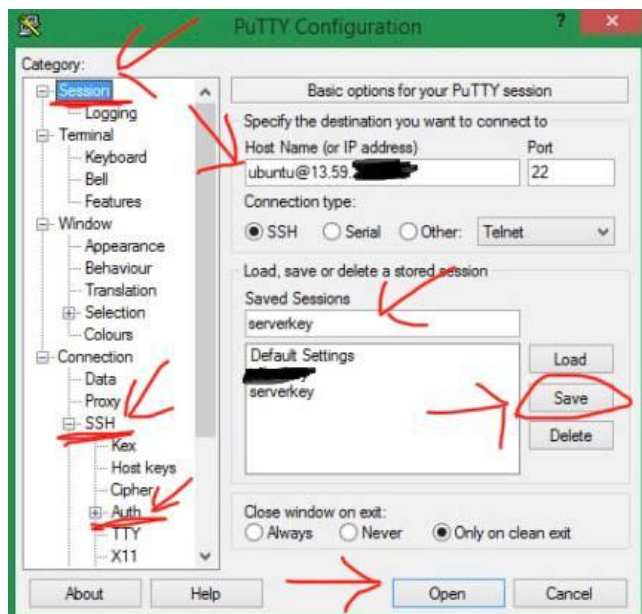
3. Увійдіть в параметри сервера і скопіюйте Public IP (він знадобиться для підключення до серверу через PuTTY)



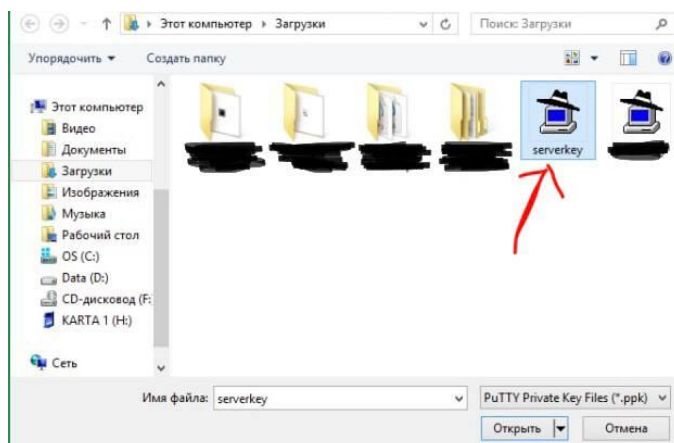
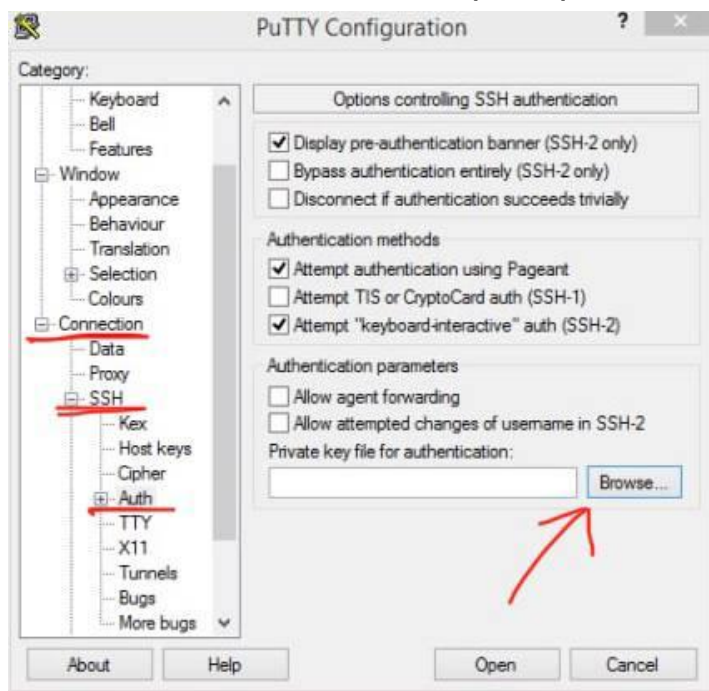
4. Скачайте PuTTY через файл який я додав у репозиторій

5. Відкрийте PuTTY і налаштуйте підключення до сервера

Натисніть на категорію “**Session**”, у полі “**Host Name**” введіть “**ubuntu@<ip>**”(тут має бути скопійований вами IP адреса), у полі “**Saved Sessions**” напишіть ім'я вашого ключа і натисніть “**Save**”, далі зайдіть в категорію **Connection - SSH - Auth**



Натисніть “**Browse...**” і оберіть файл ключа до вашого сервера



Поверніться у розділ “**Session**” і натисніть “**Open**”. Ви успішно увійшли у сервер 6. Тепер ви маєте встановити необхідні пакети

Пропишіть послідовно

***для вставлення команд у консолі PuTTY використовуйте праву клавішу миші

sudo apt update

sudo apt upgrade

sudo apt-get install python3-pip (встановлюю python3 разом з pip)

pip install aiogram (конкретно у цьому випадку я використав бібліотеку aiogram для свого бота, але якщо ви використовуєте іншу бібліотеку для свого бота то теж пропишіть її)

```
ubuntu@ip-172-31-45-231: ~  
Get:32 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse a  
md64 Packages [7000 B]  
Get:33 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse T  
ranslation-en [2112 B]  
Get:34 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse a  
md64 c-n-f Metadata [420 B]  
Get:35 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64  
c-n-f Metadata [112 B]  
Get:36 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted  
amd64 c-n-f Metadata [116 B]  
Get:37 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe a  
md64 Packages [5404 B]  
Get:38 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe T  
ranslation-en [8160 B]  
Get:39 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe a  
md64 c-n-f Metadata [236 B]  
Get:40 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse  
amd64 c-n-f Metadata [116 B]  
Fetched 22.2 MB in 4s (5709 kB/s)  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
38 packages can be upgraded. Run 'apt list --upgradable' to see them.  
ubuntu@ip-172-31-45-231:~$ sudo apt upgrade
```

```
ubuntu@ip-172-31-45-231: ~  
Setting up build-essential (12.9ubuntu3) ...  
Setting up libpython3-dev:amd64 (3.10.4-0ubuntu2) ...  
Setting up python3-dev (3.10.4-0ubuntu2) ...  
Processing triggers for man-db (2.10.2-1) ...  
Processing triggers for libc-bin (2.35-0ubuntu3) ...  
Scanning processes...  
Scanning candidates...  
Scanning linux images...  
  
Restarting services...  
Service restarts being deferred:  
/etc/needrestart/restart.d/dbus.service  
systemctl restart networkd-dispatcher.service  
systemctl restart systemd-logind.service  
systemctl restart unattended-upgrades.service  
systemctl restart user@1000.service  
  
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-172-31-45-231:~$ sudo apt-get install python3-pip
```

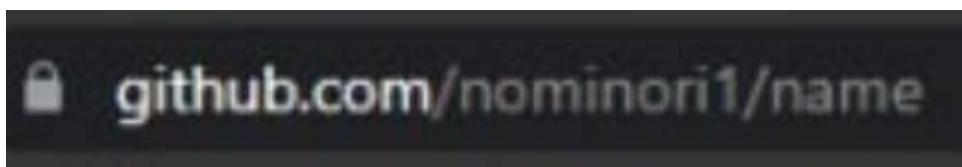
```
ubuntu@ip-172-31-45-231: ~  
Swap usage: 0%  
  
0 updates can be applied immediately.  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-45-231:~$ free  
total        used        free      shared  buff/cache   available  
Mem:      991128    182488    377704      832     430936     652824  
Swap:      0         0         0  
ubuntu@ip-172-31-45-231:~$ sudo apt update
```

```
ubuntu@ip-172-31-45-231: ~  
Scanning processes...  
Scanning candidates...  
Scanning linux images...  
  
Restarting services...  
Service restarts being deferred:  
/etc/needrestart/restart.d/dbus.service  
systemctl restart networkd-dispatcher.service  
systemctl restart systemd-logind.service  
systemctl restart unattended-upgrades.service  
systemctl restart user@1000.service  
  
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-172-31-45-231:~$ sudo apt-get install python3-pip  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
python3-pip is already the newest version (22.0.2+dfsg-1).  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
ubuntu@ip-172-31-45-231:~$ pip install aiogram
```

7. Створіть новий репозиторій на **github** і додайте туди код свого бота (обирайте в налаштуваннях репозиторія **Public**)

8. Скопіюйте репозиторій на ваш сервер

Скопіюйте посилання на ваш репозиторій



Пропишіть

git clone <посилання>

У моєму випадку це

git clone https://github.com/nominator1/name

```
ubuntu@ip-172-31-45-231: ~  
Collecting yarl<2.0,>=1.0  
  Downloading yarl-1.7.2-cp310-cp310-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_12_x86_64.manylinux2010_x86_64.whl (305 kB)  
----- 305.3/305.3 KB 43.6 MB/s eta 0:00:00  
Requirement already satisfied: attrs>=17.3.0 in /usr/lib/python3/dist-packages (from aiohttp<3.9.0,>=3.8.0->aioogram) (21.2.0)  
Requirement already satisfied: pytz>=2015.7 in /usr/lib/python3/dist-packages (from Babel<2.10.0,>=2.9.1->aioogram) (2022.1)  
Requirement already satisfied: idna>=2.0 in /usr/lib/python3/dist-packages (from yarl<2.0,>=1.0->aiohttp<3.9.0,>=3.8.0->aioogram) (3.3)  
Installing collected packages: multidict, frozenlist, charset-normalizer, certifi, Babel, async-timeout, yarl, aiosignal, aiohttp, aioogram  
WARNING: The script normalizer 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.  
WARNING: The script pybabel 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 Babel-2.9.1 aioogram-2.21 aiohttp-3.8.1 aiosignal-1.2.0 async-timeout-4.0.2 certifi-2022.6.15 charset-normalizer-2.1.0 frozenlist-1.3.0 multidict-6.0.2 yarl-1.7.2  
ubuntu@ip-172-31-45-231:~$ git clone https://github.com/nominoril/name
```

перевірте правильність встановлення, пропишіть **ls** (має видати ім'я репозиторію)

```
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ ff  
ff: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ d  
d: command not found  
ubuntu@ip-172-31-45-231:~$ git clone https://github.com/nominoril/name  
Cloning into 'name'...  
remote: Enumerating objects: 6, done.  
remote: Counting objects: 100% (6/6), done.  
remote: Compressing objects: 100% (4/4), done.  
Receiving objects: 100% (6/6), done.  
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0  
ubuntu@ip-172-31-45-231:~$ ls  
name  
ubuntu@ip-172-31-45-231:~$
```

9. Запуск бота

По-перше ви маєте встановити модуль **screen** щоб ваш код завжди був запущен на вашому сервері (у іншому випадку бот перестане працювати як тільки ви закриєте PuTTY)

Пропишіть **sudo apt install screen**

```
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ ff  
ff: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ d  
d: command not found  
ubuntu@ip-172-31-45-231:~$ git clone https://github.com/nominoril/name  
Cloning into 'name'...  
remote: Enumerating objects: 6, done.  
remote: Counting objects: 100% (6/6), done.  
remote: Compressing objects: 100% (4/4), done.  
Receiving objects: 100% (6/6), done.  
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0  
ubuntu@ip-172-31-45-231:~$ ls  
name  
ubuntu@ip-172-31-45-231:~$ cd name  
ubuntu@ip-172-31-45-231:~/name$ cd  
ubuntu@ip-172-31-45-231:~$ sudo apt install screen
```


Далі пропишіть **cd <ім'я репозиторія>** (у моєму випадку name)

```
ubuntu@ip-172-31-45-231: ~  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$  
ubuntu@ip-172-31-45-231:~$ ff  
ff: command not found  
ubuntu@ip-172-31-45-231:~$  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ d  
d: command not found  
ubuntu@ip-172-31-45-231:~$ git clone https://github.com/nominoril/name  
Cloning into 'name'...  
remote: Enumerating objects: 6, done.  
remote: Counting objects: 100% (6/6), done.  
remote: Compressing objects: 100% (4/4), done.  
Receiving objects: 100% (6/6), done.  
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0  
ubuntu@ip-172-31-45-231:~$ ls  
name  
ubuntu@ip-172-31-45-231:~$ cd name
```

Пропишіть **screen -S <ім'я репозиторія>** (у моєму випадку name)

```
ubuntu@ip-172-31-45-231: ~/name  
ubuntu@ip-172-31-45-231:~$ f  
f: command not found  
ubuntu@ip-172-31-45-231:~$ d  
d: command not found  
ubuntu@ip-172-31-45-231:~$ git clone https://github.com/nominoril/name  
Cloning into 'name'...  
remote: Enumerating objects: 6, done.  
remote: Counting objects: 100% (6/6), done.  
remote: Compressing objects: 100% (4/4), done.  
Receiving objects: 100% (6/6), done.  
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0  
ubuntu@ip-172-31-45-231:~$ ls  
name  
ubuntu@ip-172-31-45-231:~$ cd name  
ubuntu@ip-172-31-45-231:~/name$ cd  
ubuntu@ip-172-31-45-231:~$ sudo apt install screen  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
screen is already the newest version (4.9.0-1).  
screen set to manually installed.  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
ubuntu@ip-172-31-45-231:~$ cd name  
ubuntu@ip-172-31-45-231:~/name$ screen -S name
```

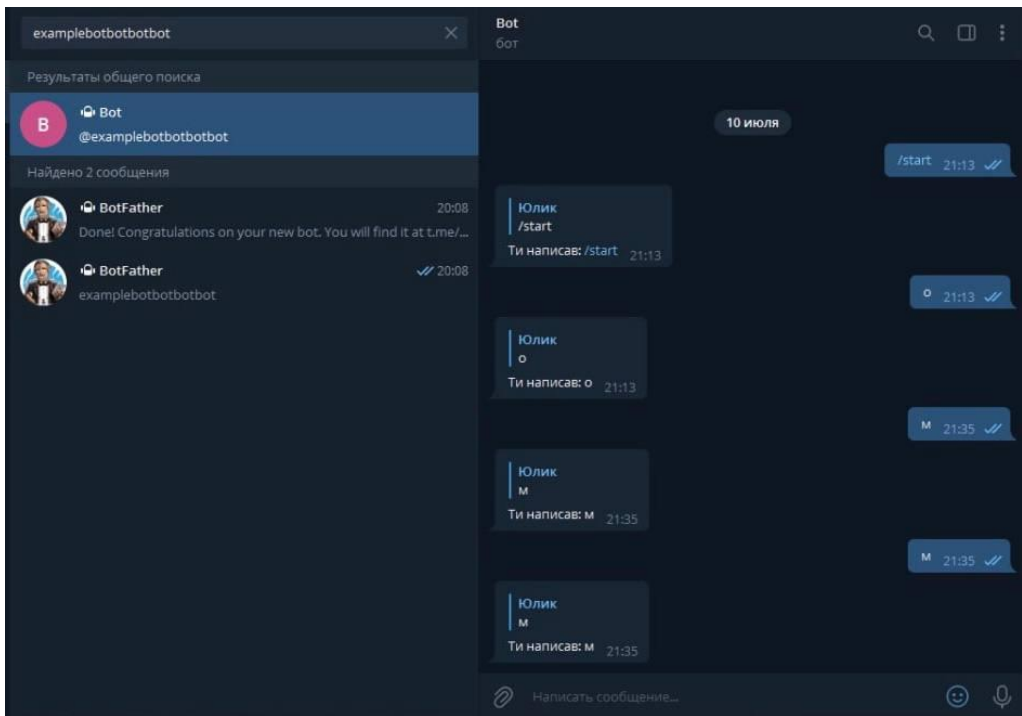
Пропишіть **python3 <ім'я файлу>** (у моєму випадку main.py)

```
ubuntu@ip-172-31-45-231: ~/name  
ubuntu@ip-172-31-45-231:~/name$ python3 main.py
```

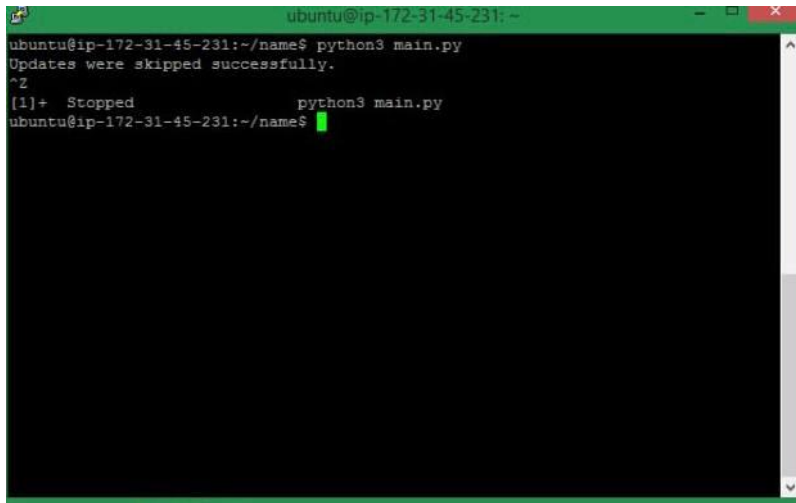

Після запуску коду, затисніть **CTRL + A + D**



Все, тепер ваш бот працює, можете закривати PuTTY

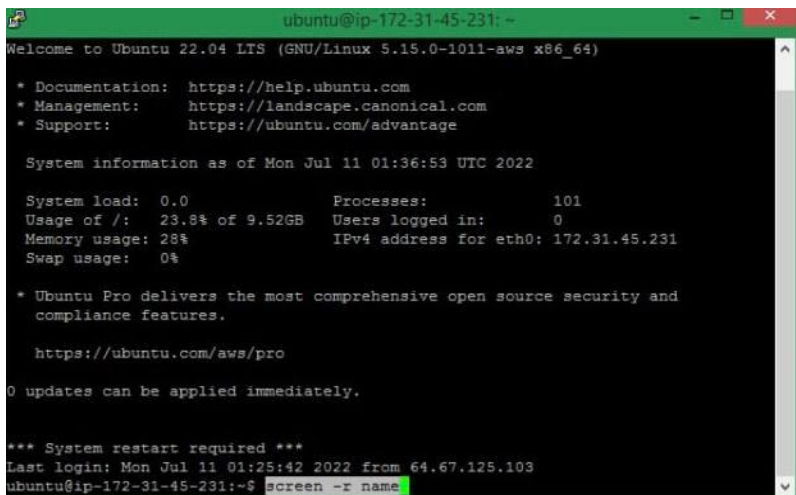


9.1 Якщо хочете вимкнути код, після його запуску затисніть **Ctrl + Z**



```
ubuntu@ip-172-31-45-231: ~  
ubuntu@ip-172-31-45-231:~/name$ python3 main.py  
Updates were skipped successfully.  
^Z  
[1]+  Stopped                  python3 main.py  
ubuntu@ip-172-31-45-231:~/name$
```

9.2 Якщо ж захочете знову увійти до сервера і вимкнути код, після закриття програми, то підключіться і пропишіть **screen -r <ім'я репозиторія>** (у моєму випадку name) і **Ctrl + Z** відразу після



```
ubuntu@ip-172-31-45-231: ~  
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-1011-aws x86_64)  
  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:       https://ubuntu.com/advantage  
  
System information as of Mon Jul 11 01:36:53 UTC 2022  
  
System load:  0.0          Processes:      101  
Usage of /:   23.8% of 9.52GB   Users logged in:  0  
Memory usage: 28%          IPv4 address for eth0: 172.31.45.231  
Swap usage:   0%  
  
 * Ubuntu Pro delivers the most comprehensive open source security and  
  compliance features.  
  
https://ubuntu.com/aws/pro  
  
0 updates can be applied immediately.  
  
*** System restart required ***  
Last login: Mon Jul 11 01:25:42 2022 from 64.67.125.103  
ubuntu@ip-172-31-45-231:~$ screen -r name
```

10. Як видалити репозиторій

По-перше якщо у вас запущений код то затисніть **Ctrl + Z**

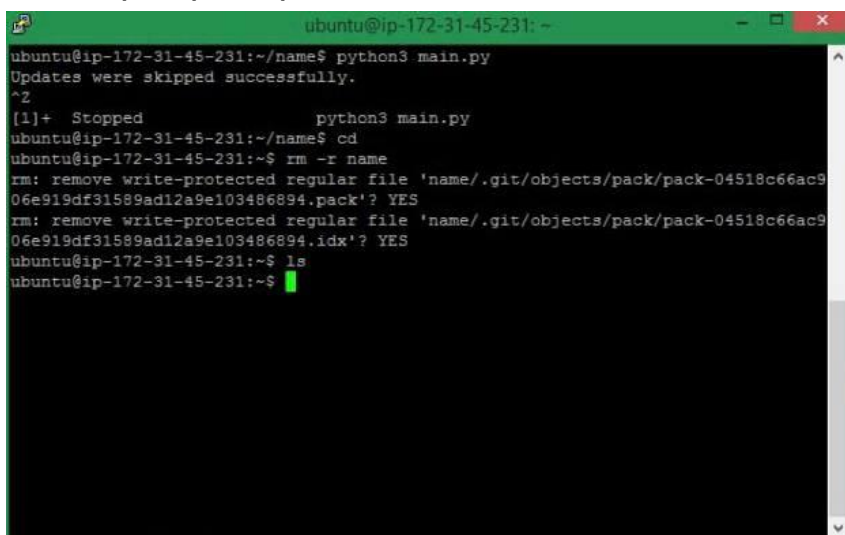
Далі ви маєте вийти з репозиторію пропишіть **cd**

Потім **rm -r <ім'я репозиторія>** (у моєму випадку name)

Далі двічі послідовно пропишіть **YES**

Все, ви успішно видалили репозиторій

Для перевірки пропишіть **ls**



```
ubuntu@ip-172-31-45-231: ~  
ubuntu@ip-172-31-45-231:~/name$ python3 main.py  
Updates were skipped successfully.  
^Z  
[1]+  Stopped                  python3 main.py  
ubuntu@ip-172-31-45-231:~/name$ cd  
ubuntu@ip-172-31-45-231:~$ rm -r name  
rm: remove write-protected regular file 'name/.git/objects/pack/pack-04518c66ac9  
06e919df31589ad12a9e103486894.pack'? YES  
rm: remove write-protected regular file 'name/.git/objects/pack/pack-04518c66ac9  
06e919df31589ad12a9e103486894.idx'? YES  
ubuntu@ip-172-31-45-231:~$ ls  
ubuntu@ip-172-31-45-231:~$
```