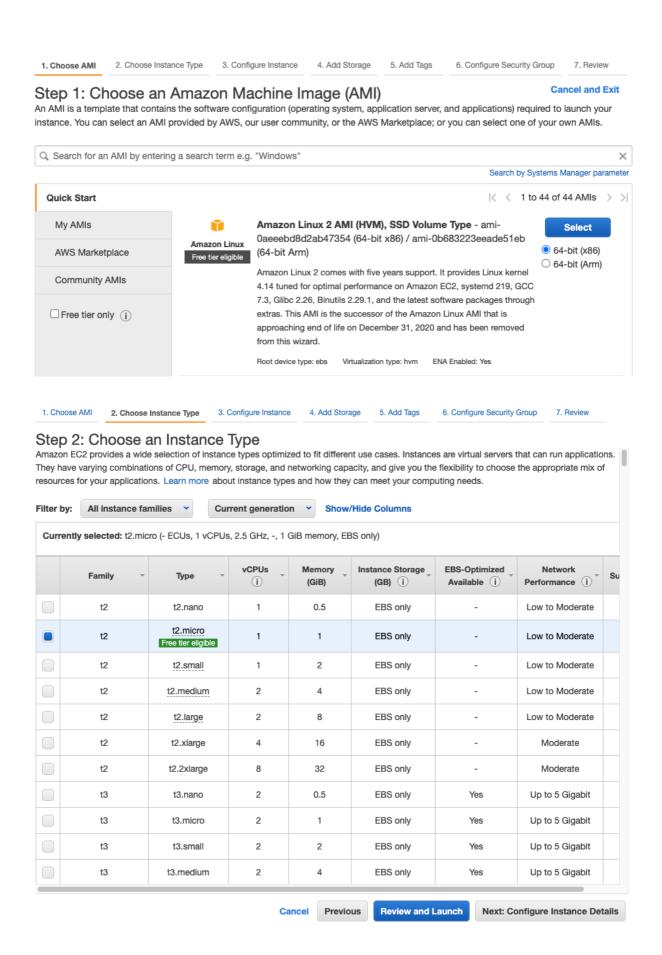


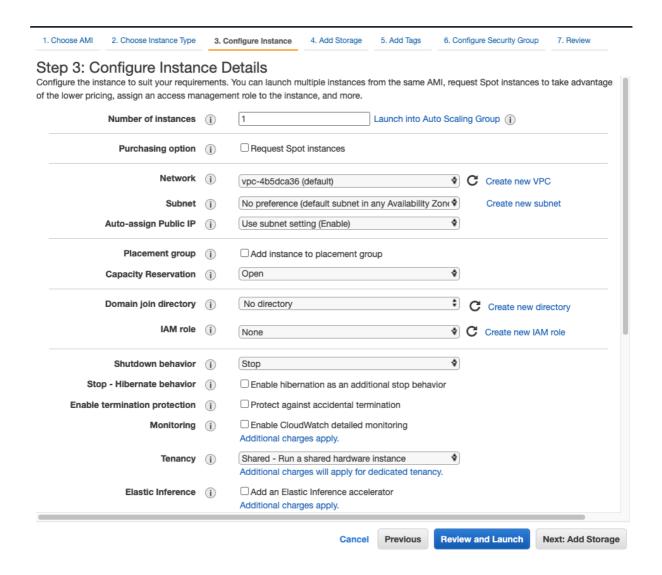
# How to Install Apache Web Server on EC2 Linux 2

### Let's Launch an Amazon EC2 instance

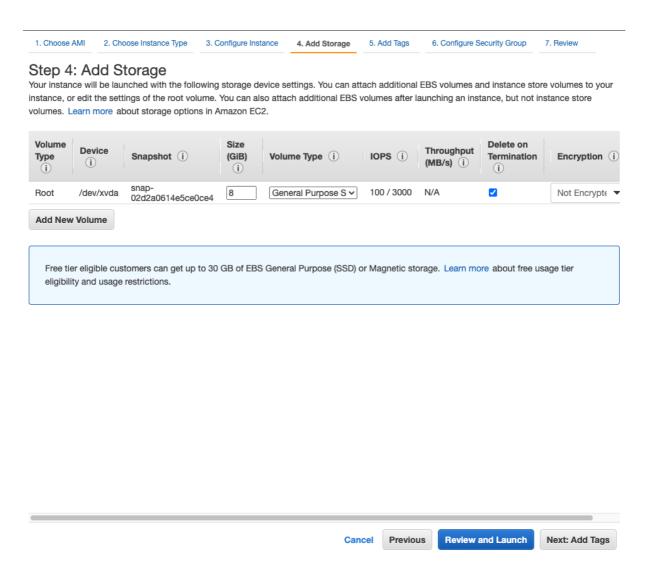




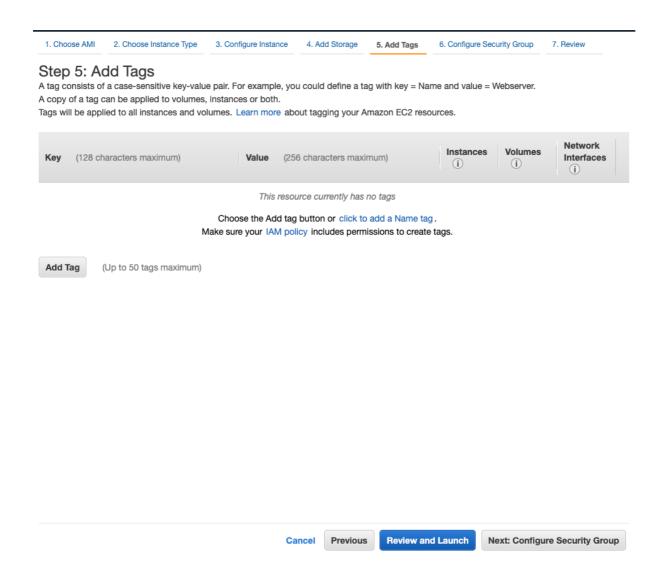
Click Next: Configure Instance Details



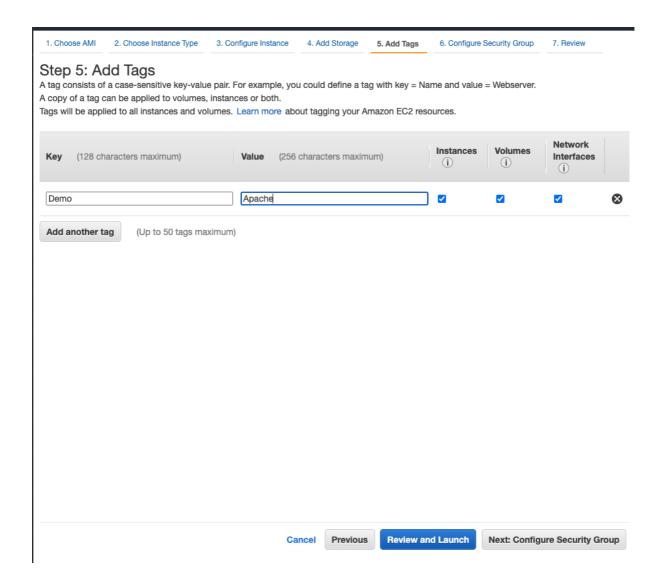
Click Next: Add Storage



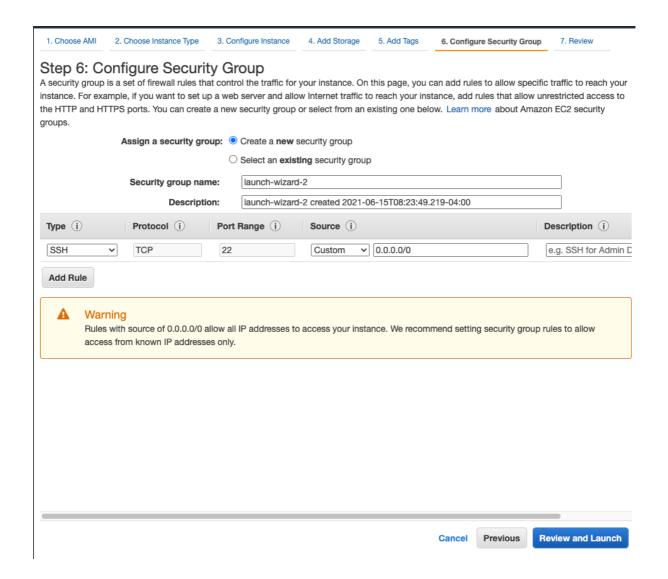
Click Next: Add Tags



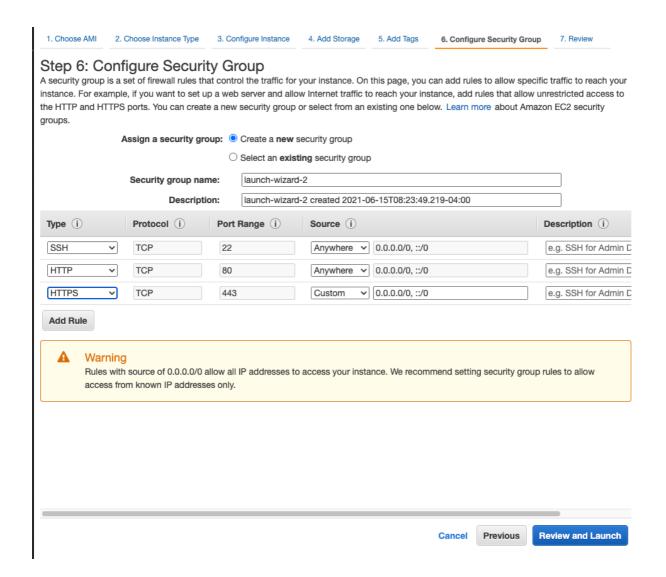
Click Add Tag



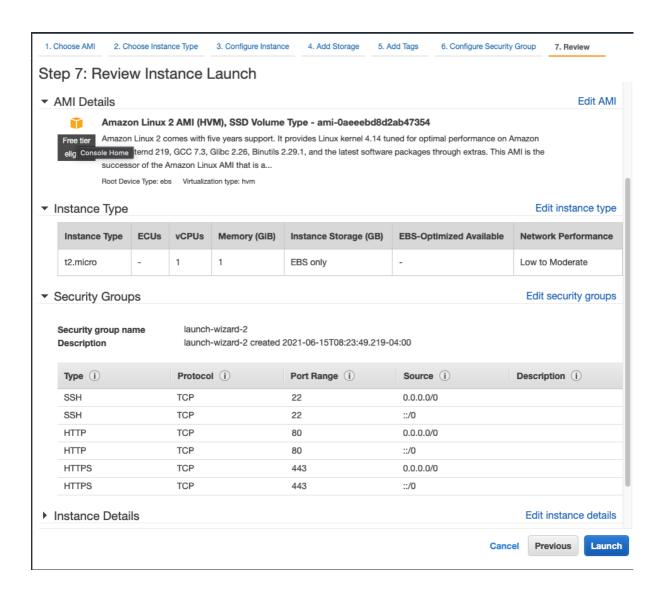
Here Define a tag with key and value, then Click Next:Configure Security Group



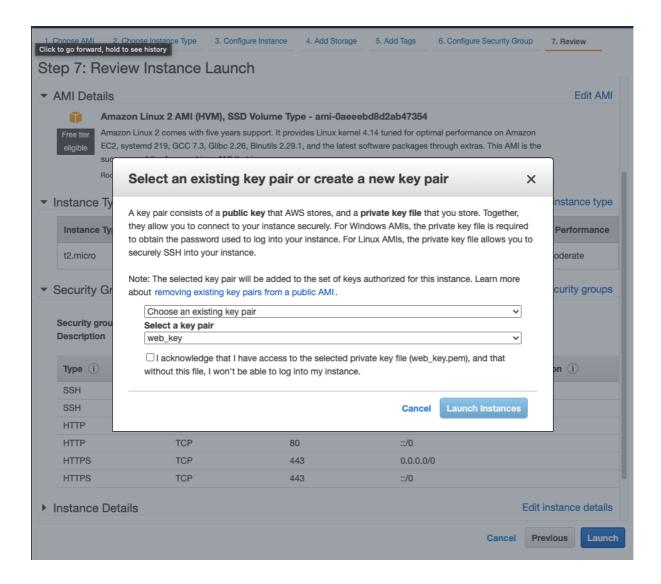
Add Rule HTTP and HTTPS protocols



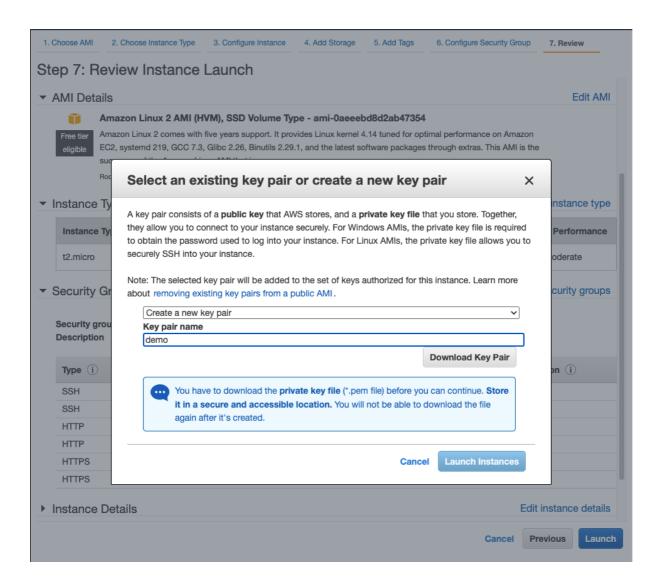
Click Review and Launch



#### Click Launch



Here if you have you need key pair to connect your instance securely. If you have one just check the box I knowledge.... then click Launch Instances. or you can create a new key pair check below!



Click Download Key Pair button. Later check your Download Directory. You created a new key pair. Then click Launch Instances.

#### Launch Status

**②** 

Your instances are now launching

The following instance launches have been initiated: i-0b4ab6846f2ee9efc View launch log

0

Get notified of estimated charges

Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

#### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. Find out how to connect to your instances.

#### ▼ Here are some helpful resources to get you started

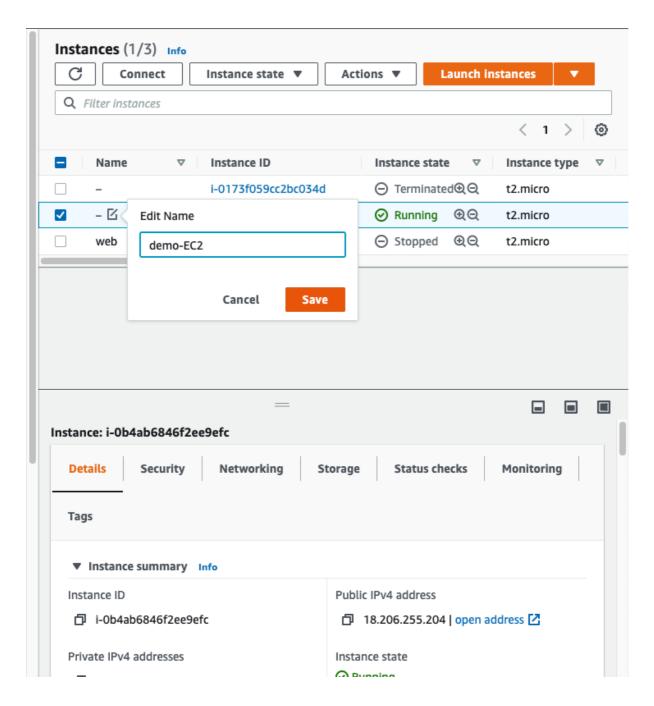
- How to connect to your Linux instance
- Amazon EC2: User Guide
- · Learn about AWS Free Usage Tier
- Amazon EC2: Discussion Forum

#### While your instances are launching you can also

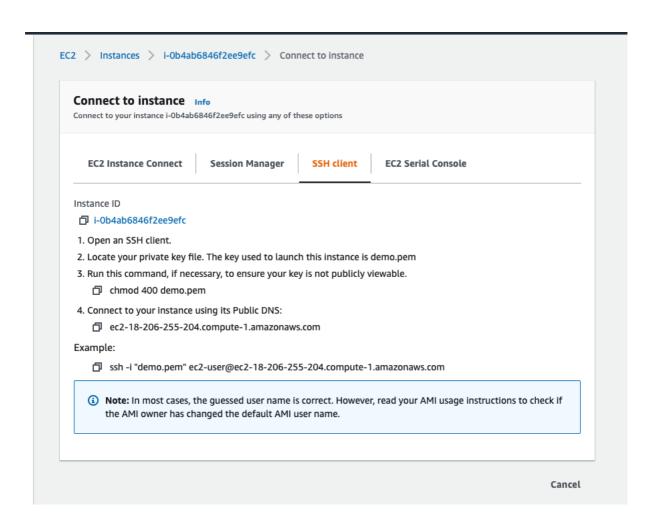
- · Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- · Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

View Instances

#### Click View Instances

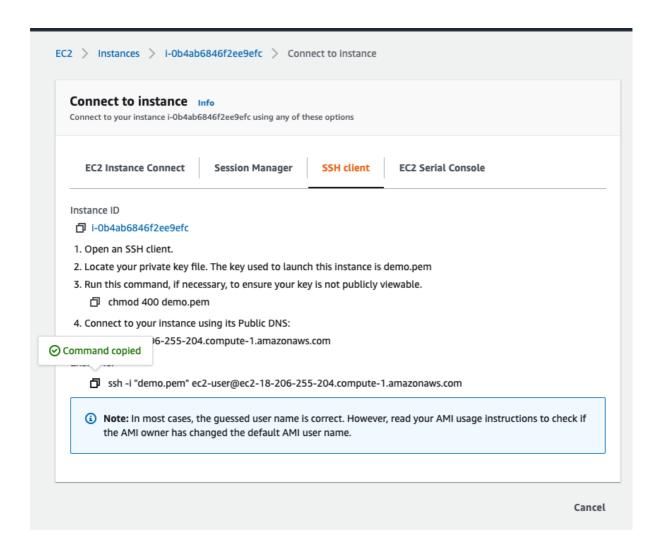


Here you can give a name your new instance then click upper Connect button



In order to connect our EC2 we need (Private Key) open your Terminal to find your newly created key pair and let's give an authentication via chmod 400 command

```
    Cd Downloads
    Downloads ls
    demo.pem web_key.pem
    Downloads chmod 400 demo.pem
    Downloads ls -l demo.pem
    -r----@ 1 tepe staff 1704
    Downloads
```



ssh command copied here got to your Terminal and paste then hit Enter then Terminal ask yes or no=⇒ write yes and hit enter again.

```
→ Downloads ssh -i "demo.pem" ec2-user@ec2-18-206-255-204.compute-1.amazonaws.com
The authenticity of host 'ec2-18-206-255-204.compute-1.amazonaws.com (18.206.255.204
)' can't be established.
ED25519 key fingerprint is SHA256:3ixnEroYNykfiSEfhsMtedzec+QtC+UIBUUnZfHw0YE.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-18-206-255-204.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

__| __| __|
__| ( / Amazon Linux 2 AMI
___|\__| | __|
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-93-118 ~]$
```

Now you can see we connected our instance  $\Rightarrow$  [ec2-user@ip-172-31-93-118  $\sim$ ]\$

Here you can check for update = ⇒ sudo yum update -y

```
[ec2-user@ip-172-31-93-118 ~]$ sudo yum update -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update com/amazon-linux-2/
[ec2-user@ip-172-31-93-118 ~]$ [ 5.28 ]
```

## Let's install the Apache Web Server-default page

Our Terminal is open = ⇒ sudo yum install httpd -y

Check the status and then Start Apache Web Server  $\Rightarrow$  sudo systemctl status httpd  $\Rightarrow$ 

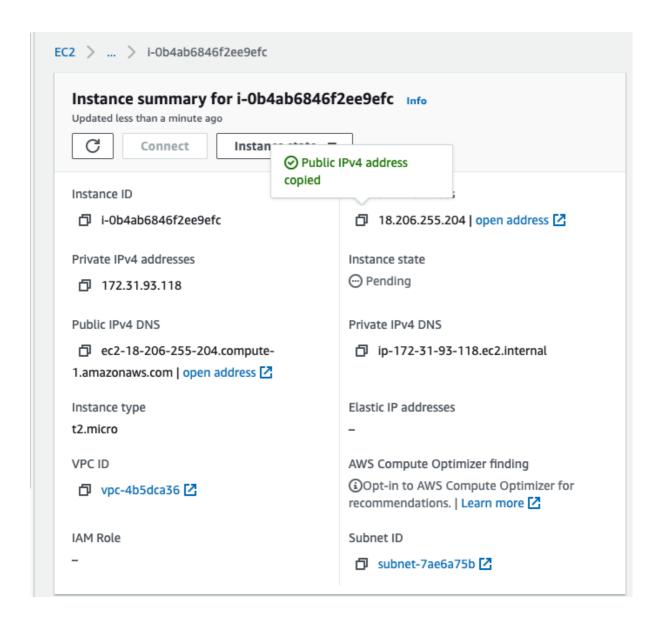
sudo systemctl start httpd

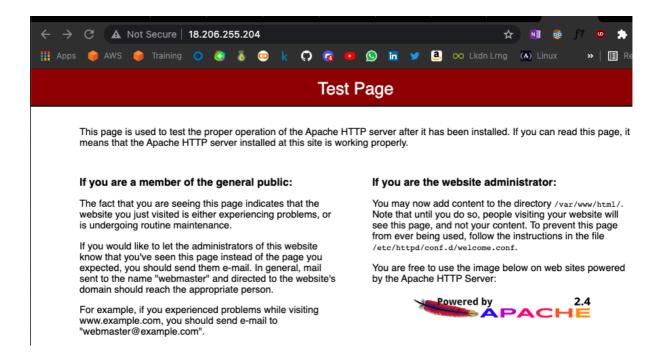
```
[ec2-user@ip-172-31-93-118 ~]$ sudo systemctl status httpd
• httpd.service - The Apache HTTP Server
    Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset: disabled)
    Active: inactive (dead)
    Docs: man:httpd.service(8)
[ec2-user@ip-172-31-93-118 ~]$ sudo systemctl start httpd
[ec2-user@ip-172-31-93-118 ~]$ ]
```

Now status of Apache Web Server = ⇒ sudo systemctl status httpd

```
⊗ ⊖ Ø ~ %1
[ec2-user@ip-172-31-93-118 ~]$ sudo systemctl status httpd
httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; vendor preset:
isabled)
   Active: active (running) since Tue 2021-06-15 12:59:31 UTC; 1min 29s ago
     Docs: man:httpd.service(8)
Main PID: 3534 (httpd)
  Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes serve
/sec:
       0 B/sec"
   CGroup: /system.slice/httpd.service
            -3534 /usr/sbin/httpd -DFOREGROUND
           -3535 /usr/sbin/httpd -DF0REGR0UND
           -3536 /usr/sbin/httpd -DF0REGROUND
           -3537 /usr/sbin/httpd -DFOREGROUND
            -3538 /usr/sbin/httpd -DFOREGROUND
           └─3539 /usr/sbin/httpd -DF0REGR0UND
Jun 15 12:59:31 ip-172-31-93-118.ec2.internal systemd[1]: Starting The Apache HTT..
Jun 15 12:59:31 ip-172-31-93-118.ec2.internal systemd[1]: Started The Apache HTTP..
Hint: Some lines were ellipsized, use -l to show in full.
[ec2-user@ip-172-31-93-118 ~]$
```

As you see our appache server is active(running), open your instance(EC2) and copy Public IP





open your browser and paste ip address = ⇒ This page is used to test the proper operation of the Apache HTTP server after it has been installed. If you can read this page, it means that the Apache HTTP server installed at this site is working properly.

## Let's transfer github your portfolio html page.

First set permission folders unders <a href="https://www/html/">/var/www/html/</a> then cd html directory

```
ec2-user@ip-172-31-93-118:/var/www/html

[ec2-user@ip-172-31-93-118 /]$ sudo chmod -R 777 /var/www/html

[ec2-user@ip-172-31-93-118 /]$ cd /var/www/html

[ec2-user@ip-172-31-93-118 html]$
```

#### Create index.html file

Use Vim editor and copy your html portfolio page within vim press Esc :wq and hit enter

```
[ec2-user@ip-172-31-93-118 html]$ touch index.html
[ec2-user@ip-172-31-93-118 html]$ vi index.html
[ec2-user@ip-172-31-93-118 html]$
```

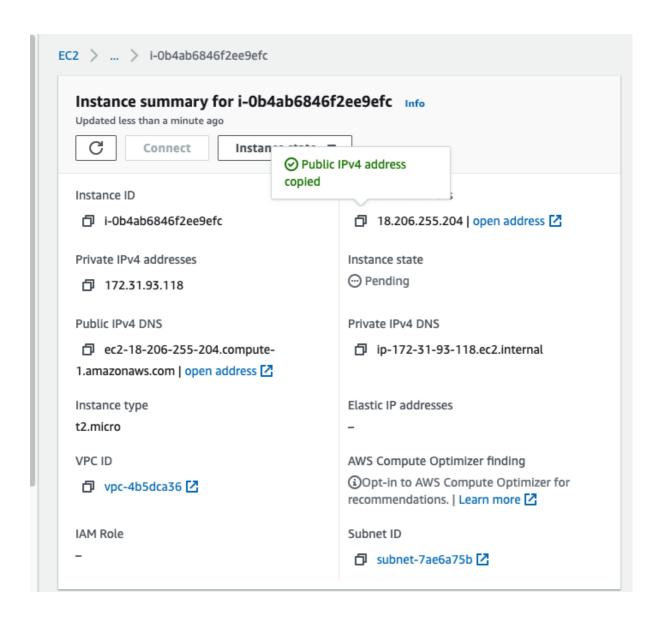
In order to restart your apache web server = ⇒ sudo systemctl restart httpd

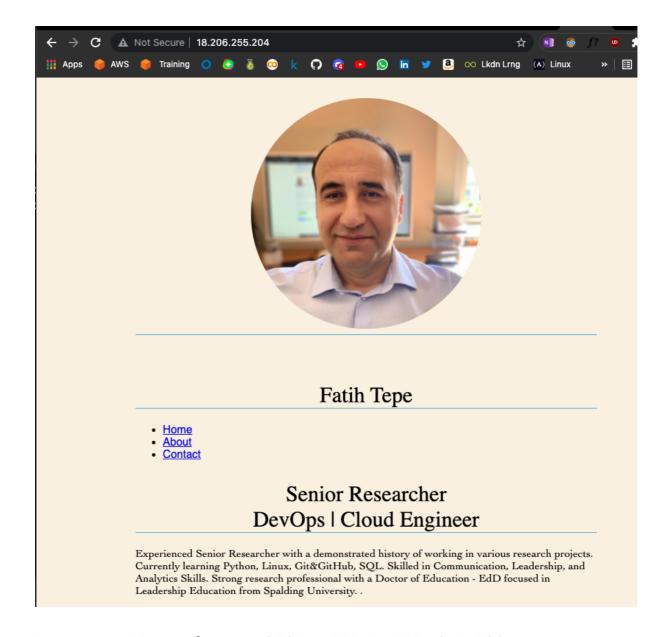
```
ec2-user@ip-172-31-93-118:/var/www/html

[ec2-user@ip-172-31-93-118 html]$ sudo systemctl restart httpd
[ec2-user@ip-172-31-93-118 html]$

| Public | Pv4 address copied | Instance | D
```

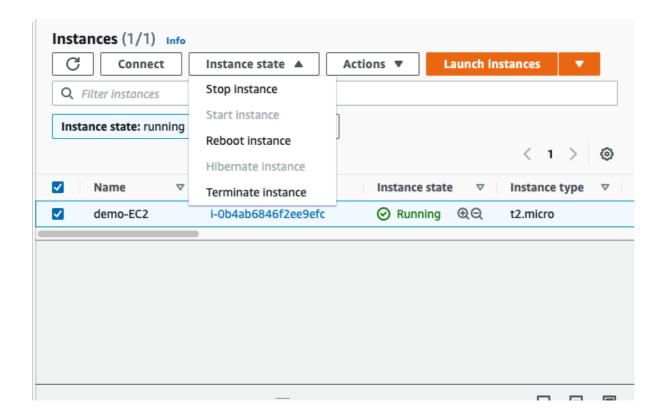
Finally, open your instance and copy public IP then open your browser and past the IP





We are done! Do not forget to STOP or TERMINATE YOUR EC2

Select your instance and click Instance State click (Stop Instance or Terminate Instance)



Feel free to contribute or use my GitHub repos = ⇒ <a href="https://github.com/fatihtepe">https://github.com/fatihtepe</a>