

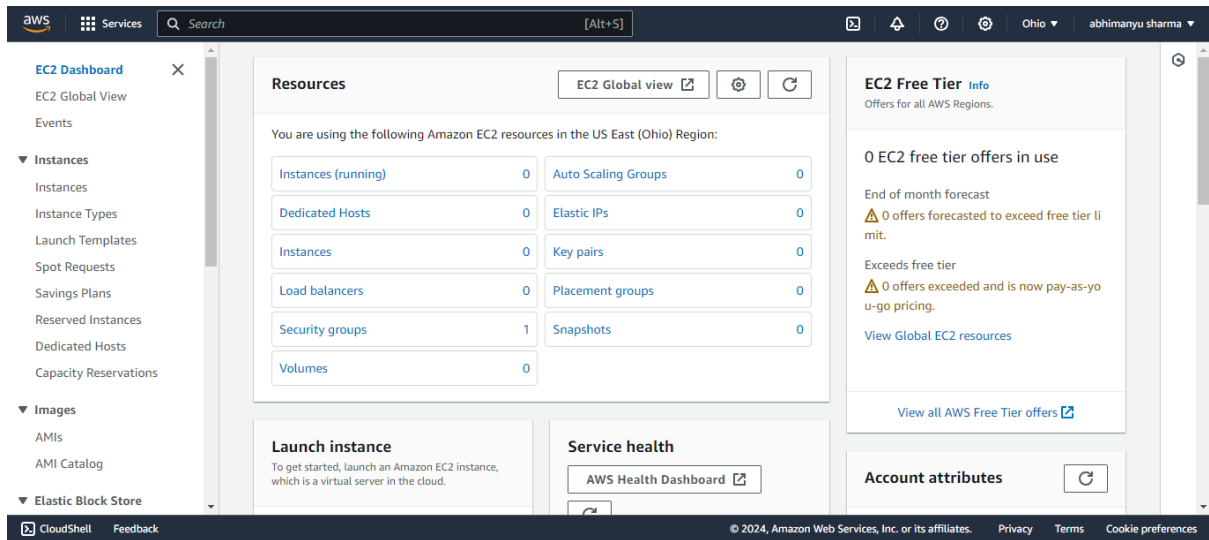
Host website on EC2-AWS

To launch a website, we must follow a three-stage process:

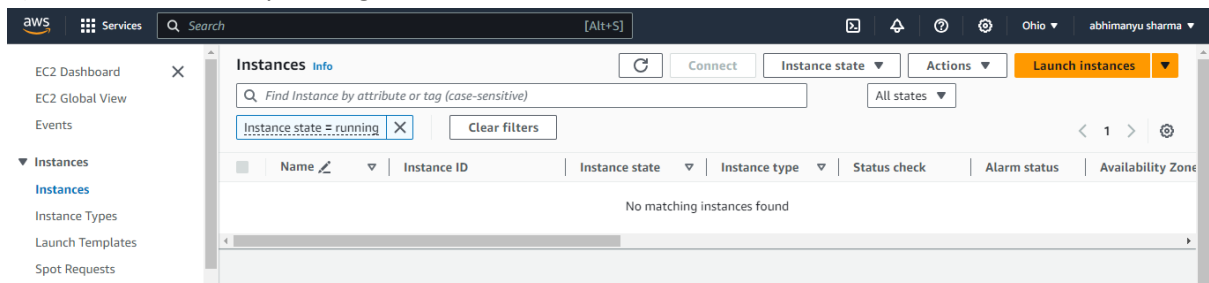
- 1) In the AWS Management Console, launch a web server (EC2 instance).
- 2) Connect the server to our remote client or shell.
- 3) Launch the website from the client or shell.

1) In AWS Console we need to launch one webserver (EC2)

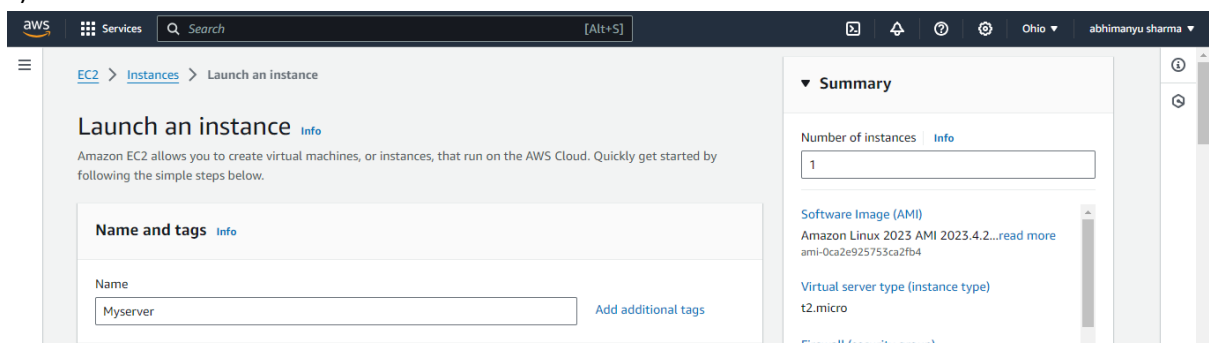
a) Sign into the AWS Management Console using your credentials



b) Launch Instances by clicking the Launch Instances



c) Give Name to the instance



d) Select AMI right now I am going for Ununtu 22.04 LTS version and make sure you are selecting for free tier only

▼ 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

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Enterprise Server

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type
ami-0f30a9c3a48f3fa79 (64-bit (x86)) / ami-0504881b6db750d2f (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-0f30a9c3a48f3fa79

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

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

Cancel **Launch instance**

e) Select Instance Type and I am going for t2.micro and select free tier only otherwise it will generate bill to your account

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.0716 USD per Hour

Additional costs apply for AMIs with pre-installed software

☐ All generations [Compare instance types](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 22.04 LTS, ...[read more](#)
ami-0f30a9c3a48f3fa79

Virtual server type (instance type)
t2.micro

f) Create New key pair or select your 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](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
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ami-0f30a9c3a48f3fa79

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

select .pem only when you are using openSSH or having higher version of windows like 8,9,11 if you having less then these version then you need to use .ppk or when you are using putty.

Create key pair

Key pair name
Key pairs allow you to connect to your instance securely.
key12345
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

Private key file format
☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

Cancel **Create 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*

key12345

Create new key pair

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0f30a9c3a48f3fa79

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

g) In Network Setting allow HTTPS, HTTP and SSH traffic to connect to the server

▼ Network settings Info

Edit

Network Info

vpc-01c59ea32dfa7f9b1 | default

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) Info

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

Allow SSH traffic from

Anywhere

Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet

▼ Summary

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0f30a9c3a48f3fa79

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Review commands

h) leave the configure storage and advanced section by default and Launch Instance

▼ Configure storage Info

Advanced

1x 8 GiB gp2 Root volume (Not encrypted)

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

Add new volume

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Edit

► Advanced details Info

Number of instances Info

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...read more

ami-0f30a9c3a48f3fa79

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Review commands

Success

Successfully initiated launch of instance (i-0855a0dbaa320a60e)

g) just wait for 1-2 min. your server will be live

Instances (1) Info

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID = i-0855a0dbaa320a60e

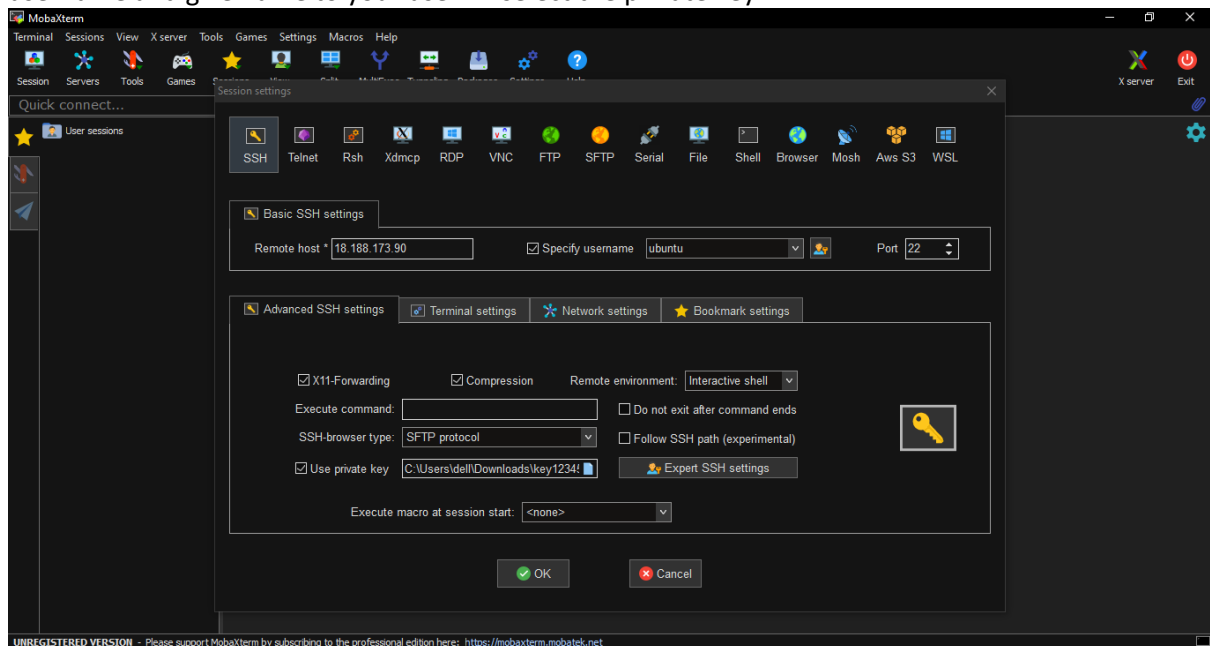
Clear filters

< 1 >

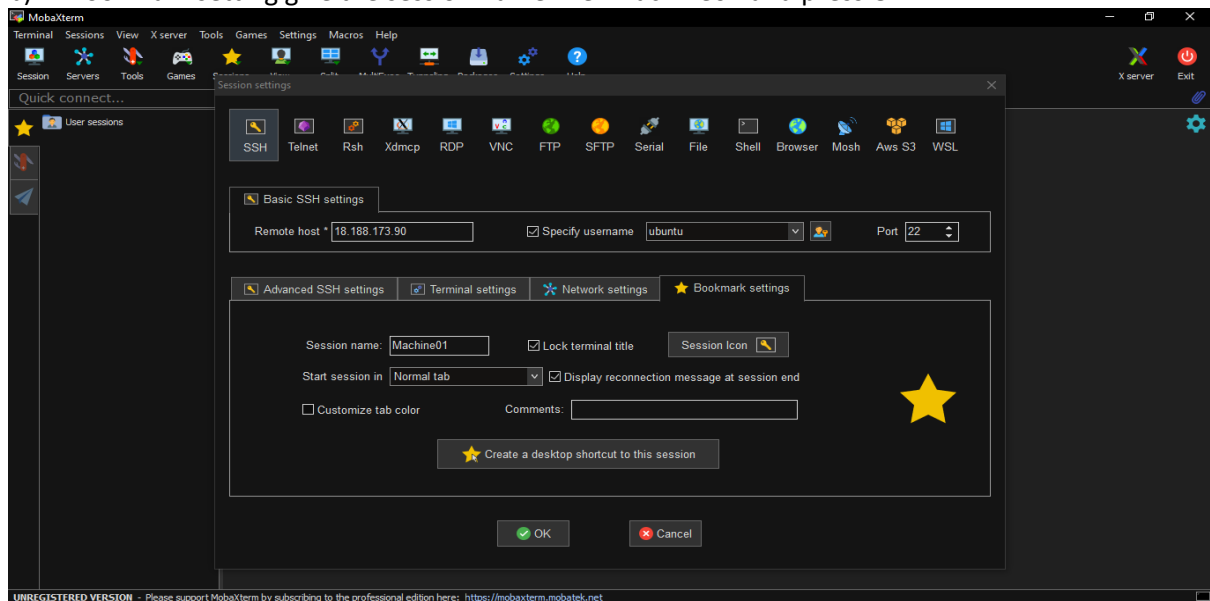
	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
<input type="checkbox"/>	Myserver	i-0855a0dbaa320a60e	Running	t2.micro	2/2 checks passed	View alarms	us-east-2c

2) We need to connect server to our remote client (MobaXterm) or shell

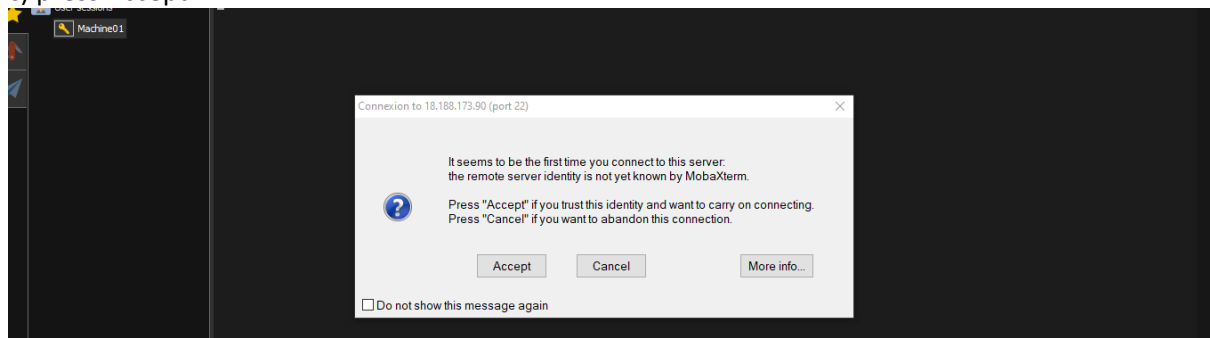
a) Click on Session → SSH → In Remote host give **public IP** from your EC2 server → select Specify username and give name to your user → select the private key



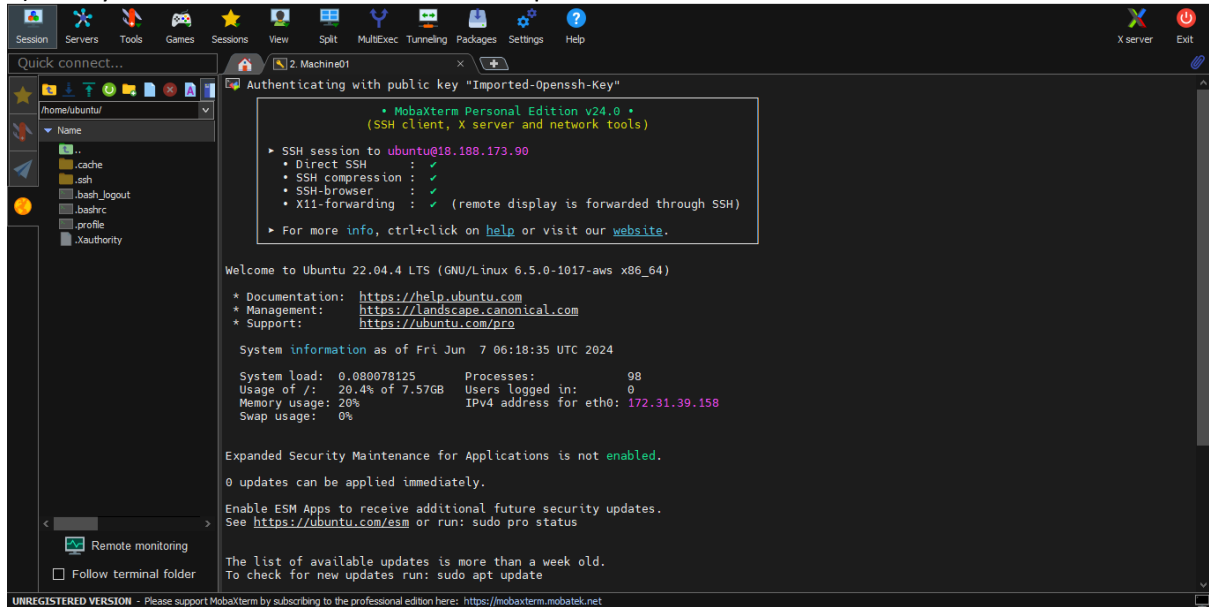
b) In Bookmark setting give the session name like: Machine01 and press OK



c) press Accept

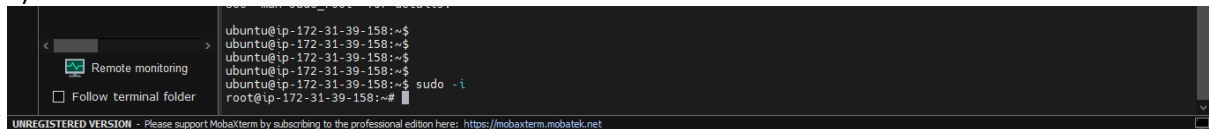


d) Now you are connect with remote desktop

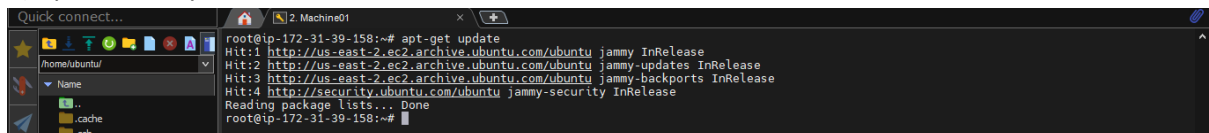


3) From client/shell we will launch website

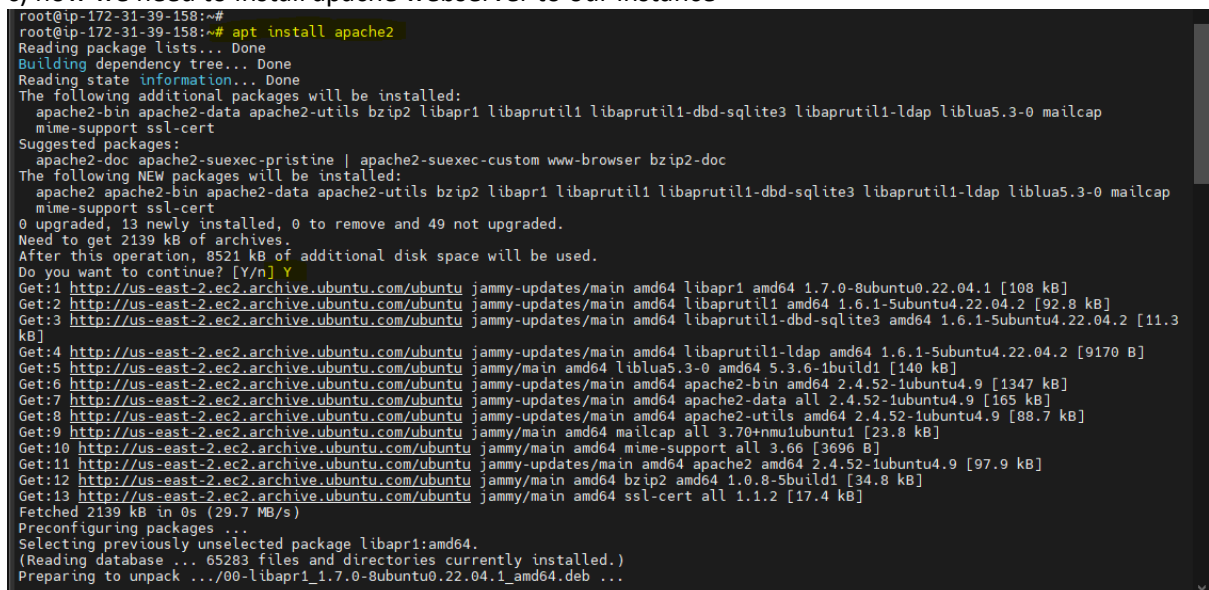
a) sudo -i for back to the root user



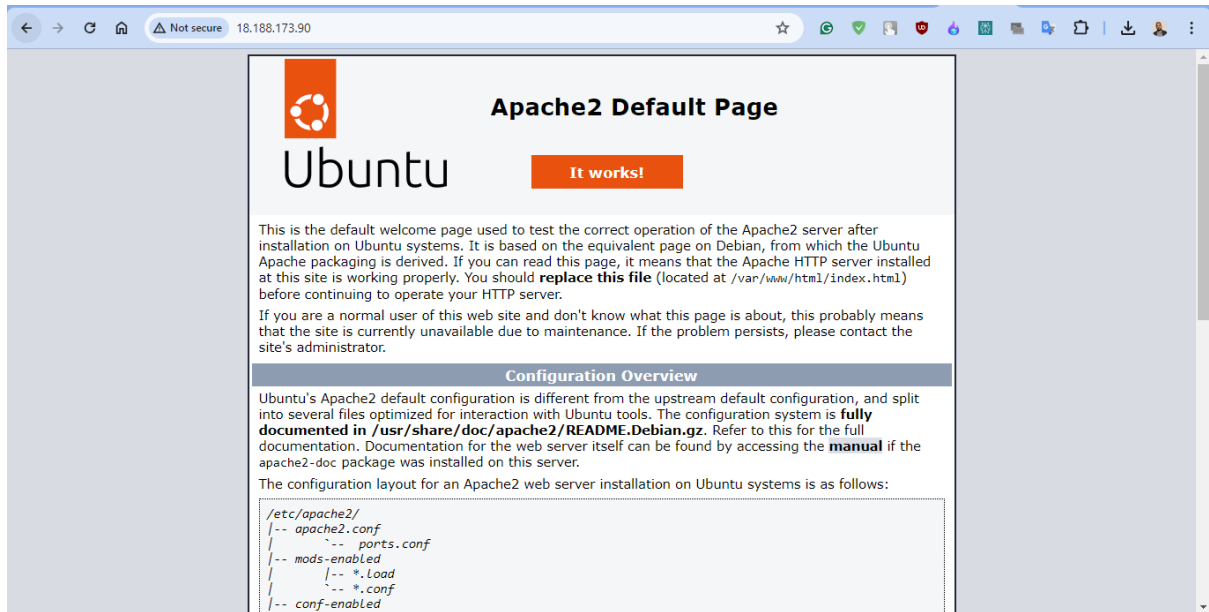
b) update the system



c) now we need to install apache webserver to our instance



d) copy your publi IP and paste in new tab your will able to see apache webser is install successfully.



e) we need to start our deamain and enable it then check the status

```
root@ip-172-31-39-158:~# systemctl restart apache2
root@ip-172-31-39-158:~# systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
root@ip-172-31-39-158:~# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Fri 2024-06-07 06:56:55 UTC; 45s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Main PID: 3096 (apache2)
    Tasks: 55 (limit: 1121)
   Memory: 4.8M
      CPU: 28ms
   CGroup: /system.slice/apache2.service
           └─3096 /usr/sbin/apache2 -k start
             └─3097 /usr/sbin/apache2 -k start
               └─3098 /usr/sbin/apache2 -k start

Jun 07 06:56:55 ip-172-31-39-158 systemd[1]: Starting The Apache HTTP Server...
Jun 07 06:56:55 ip-172-31-39-158 systemd[1]: Started The Apache HTTP Server.
root@ip-172-31-39-158:~#
```

f) we need one website to host so we are downloading for internet

```
root@ip-172-31-39-158:~# wget https://www.free-css.com/assets/files/free-css-templates/download/page296/finexo.zip
--2024-06-07 07:04:43-- https://www.free-css.com/assets/files/free-css-templates/download/page296/finexo.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2001:8d8:100f:f000::28f
Connecting to www.free-css.com (www.free-css.com)[217.160.0.242]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2094048 (2.0M) [application/zip]
Saving to: 'finexo.zip'

finexo.zip          100%[=====] 2.00M  2.15MB/s  in 0.9s

2024-06-07 07:04:45 (2.15 MB/s) - 'finexo.zip' saved [2094048/2094048]
```

g) check it is there or not

```
root@ip-172-31-39-158:~# ls
finexo.zip  snap
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
```

h) now we need to unzip the file

```
root@ip-172-31-39-158:~# unzip finexo.zip
Command 'unzip' not found, but can be installed with:
apt install unzip
root@ip-172-31-39-158:~# unzip finexo.zip
Command 'unzip' not found, but can be installed with:
apt install unzip
root@ip-172-31-39-158:~# apt install unzip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
zip
The following NEW packages will be installed:
unzip
0 upgraded, 1 newly installed, 0 to remove and 49 not upgraded.
Need to get 175 kB of archives.
After this operation, 386 kB of additional disk space will be used.
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 unzip amd64 6.0-26ubuntu3.2 [175 kB]
Fetched 175 kB in 0s (9082 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 66052 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-26ubuntu3.2_amd64.deb ...
Unpacking unzip (6.0-26ubuntu3.2) ...
Setting up unzip (6.0-26ubuntu3.2) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
```

i) now again check

```
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~# ls
finexo-html  finexo.zip  snap
root@ip-172-31-39-158:~#
```

j) move file to /var/www/html

```
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~# cd finexo-html/
root@ip-172-31-39-158:~/finexo-html# ls
about.html  css  fonts  images  index.html  js  service.html  team.html  why.html
root@ip-172-31-39-158:~/finexo-html#
root@ip-172-31-39-158:~/finexo-html#
root@ip-172-31-39-158:~/finexo-html#
root@ip-172-31-39-158:~/finexo-html#
root@ip-172-31-39-158:~/finexo-html# mv * /var/www/html/
root@ip-172-31-39-158:~/finexo-html# cd
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~#
root@ip-172-31-39-158:~# cd /var/www/html/
root@ip-172-31-39-158:/var/www/html#
root@ip-172-31-39-158:/var/www/html#
root@ip-172-31-39-158:/var/www/html#
root@ip-172-31-39-158:/var/www/html#
root@ip-172-31-39-158:/var/www/html# ls
about.html  css  fonts  images  index.html  js  service.html  team.html  why.html
root@ip-172-31-39-158:/var/www/html#
```

k) Copy public IP and paste in Google Chrome

Now your website is live

