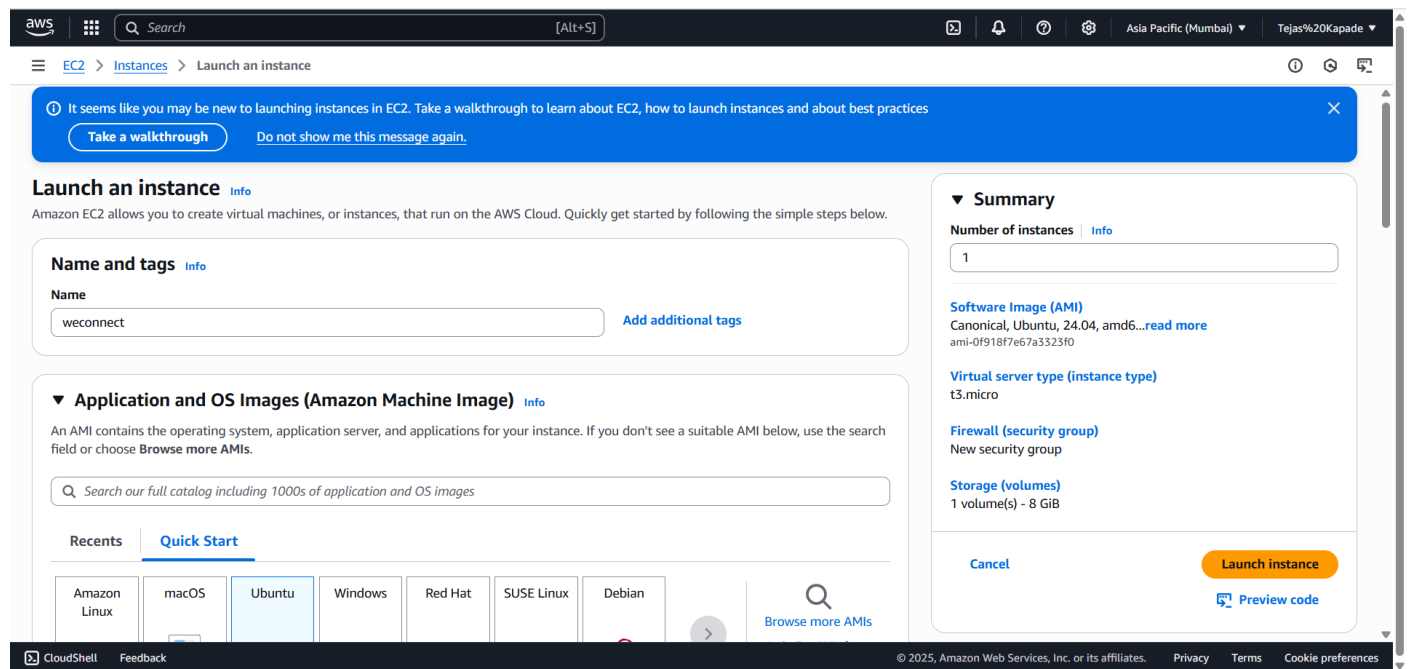


AWS, Hosting webpage on EC2.

04-08-2025

Tejas Kapade

1. Launch EC2 instance



2. Connect with SSH

```
ubuntu@ip-172-31-2-227: ~  
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1029-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/pro  
  
System information as of Mon Aug  4 05:32:16 UTC 2025  
  
System load:  0.01      Temperature:    -273.1 C  
Usage of /:   25.4% of 6.71GB  Processes:      113  
Memory usage: 24%        Users logged in: 0  
Swap usage:   0%          IPv4 address for ens5: 172.31.2.227  
  
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: Mon Aug  4 05:32:17 2025 from 43.230.47.86  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-2-227:~$
```

3. Update packages

```
ubuntu@ip-172-31-2-227: ~  
$ sudo apt upgrade && sudo apt update  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Calculating upgrade... Done  
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.  
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease  
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]  
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]  
Get:5 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]  
Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [5982 kB]  
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]  
Get:8 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [301 kB]  
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [269 kB]  
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]  
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]  
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8328 B]  
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [1313 kB]  
Get:14 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [263 kB]  
Get:15 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [164 kB]  
Get:16 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [1116 kB]  
Get:17 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [286 kB]  
Get:18 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [377 kB]  
Get:19 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [26.0 kB]  
Get:20 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [1645 kB]  
Get:21 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [359 kB]  
Get:22 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [212 B]  
Get:23 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [33.2 kB]  
Get:24 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [6772 B]
```

4. Install and start apache service

```
ubuntu@ip-172-31-2-227: ~  
$  
$  
$  
$  
$ sudo apt install apache2  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
The following additional packages will be installed:  
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64  
  liblua5.4-0 ssl-cert  
Suggested packages:  
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser  
The following NEW packages will be installed:  
  apache2 apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3 libaprutil1-ldap libaprutil1t64  
  liblua5.4-0 ssl-cert  
0 upgraded, 10 newly installed, 0 to remove and 98 not upgraded.  
Need to get 2086 kB of archives.  
After this operation, 8090 kB of additional disk space will be used.  
Do you want to continue? [Y/n]
```

```
ubuntu@ip-172-31-2-227: ~$  
ubuntu@ip-172-31-2-227:~$  
ubuntu@ip-172-31-2-227:~$ sudo service apache2 start  
ubuntu@ip-172-31-2-227:~$ sudo service apache2 status  
● apache2.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)  
   Active: active (running) since Mon 2025-08-04 05:35:30 UTC; 1min 3s ago  
     Docs: https://httpd.apache.org/docs/2.4/  
  Main PID: 2330 (apache2)  
    Tasks: 55 (limit: 1072)  
  Memory: 5.3M (peak: 5.4M)  
     CPU: 37ms  
   CGroup: /system.slice/apache2.service  
           └─2330 /usr/sbin/apache2 -k start  
             └─2332 /usr/sbin/apache2 -k start  
               └─2333 /usr/sbin/apache2 -k start  
  
Aug 04 05:35:30 ip-172-31-2-227 systemd[1]: Starting apache2.service - The Apache HTTP Server...  
Aug 04 05:35:30 ip-172-31-2-227 systemd[1]: Started apache2.service - The Apache HTTP Server.  
ubuntu@ip-172-31-2-227:~$
```

5. Create test HTML file for webpage

Command: **nano index.html**

```
GNU nano 7.2 index.html *  
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <title>Welcome</title>  
  <style>  
    body {  
      font-family: Arial, sans-serif;  
      background-color: #f5f5f5;  
      color: #333;  
      text-align: center;  
      padding-top: 100px;  
    }  
    h1 {  
      color: #2c3e50;  
    }  
    p {  
      font-size: 1.2em;  
    }  
  </style>  
</head>  
<body>  
  <h1>Welcome to Your Web Server!</h1>  
  <p>If you're seeing this page, your web server is working correctly.</p>  
</body>  
</html>  
  
^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark  
^X Exit      ^R Read File  ^_ Replace    ^U Paste      ^J Justify    ^_/ Go To Line  M-E Redo      M-6 Copy
```

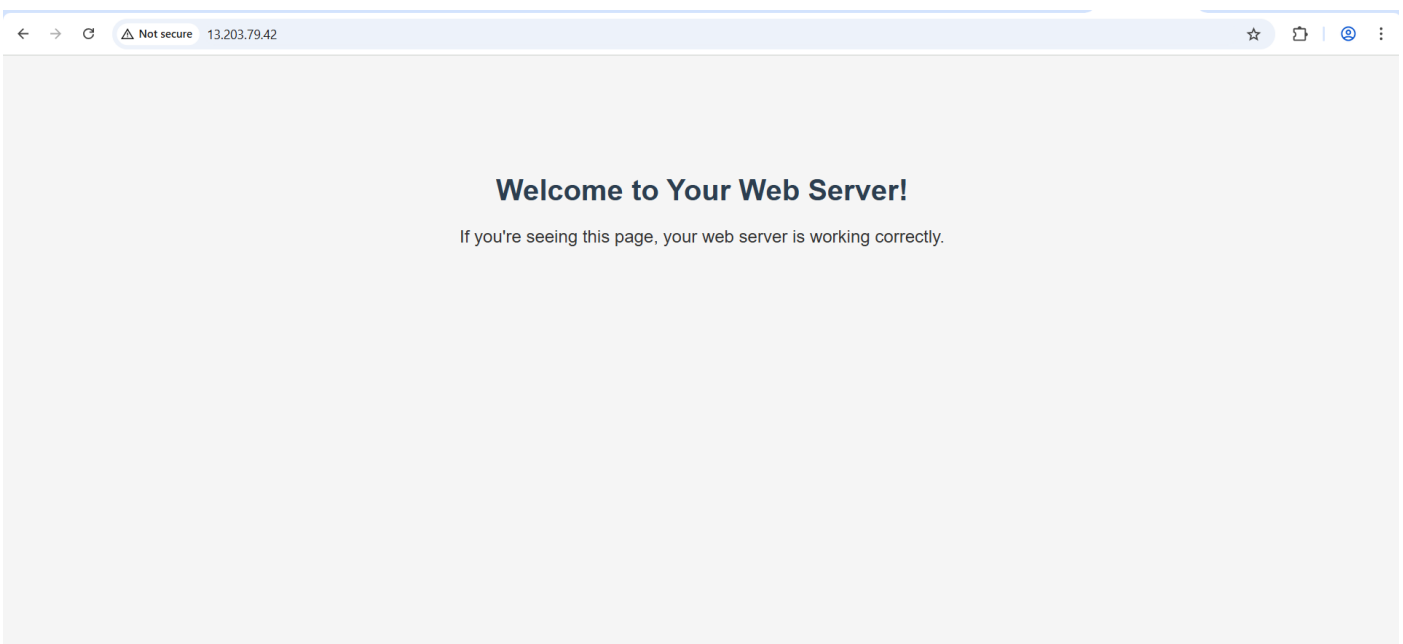
Save file using **CTL+X and Y -> Enter**

6. Put it on /var/www/html (default path for apache hosting)

Note: remove default index.html in /var/www/html and insert your index.html

```
ubuntu@ip-172-31-2-227: /var/www/html$ sudo rm -rf /var/www/html/index.html && sudo cp index.html /var/www/html/
ubuntu@ip-172-31-2-227: /var/www/html$ cd /var/www/html
ubuntu@ip-172-31-2-227: /var/www/html$ cat index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Welcome</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f5f5f5;
      color: #333;
      text-align: center;
      padding-top: 100px;
    }
    h1 {
      color: #2c3e50;
    }
    p {
      font-size: 1.2em;
    }
  </style>
</head>
<body>
  <h1>Welcome to Your Web Server!</h1>
  <p>If you're seeing this page, your web server is working correctly.</p>
</body>
</html>
ubuntu@ip-172-31-2-227: /var/www/html$
```

7. Check for webpage using public IP in URL



Apache server is now running.