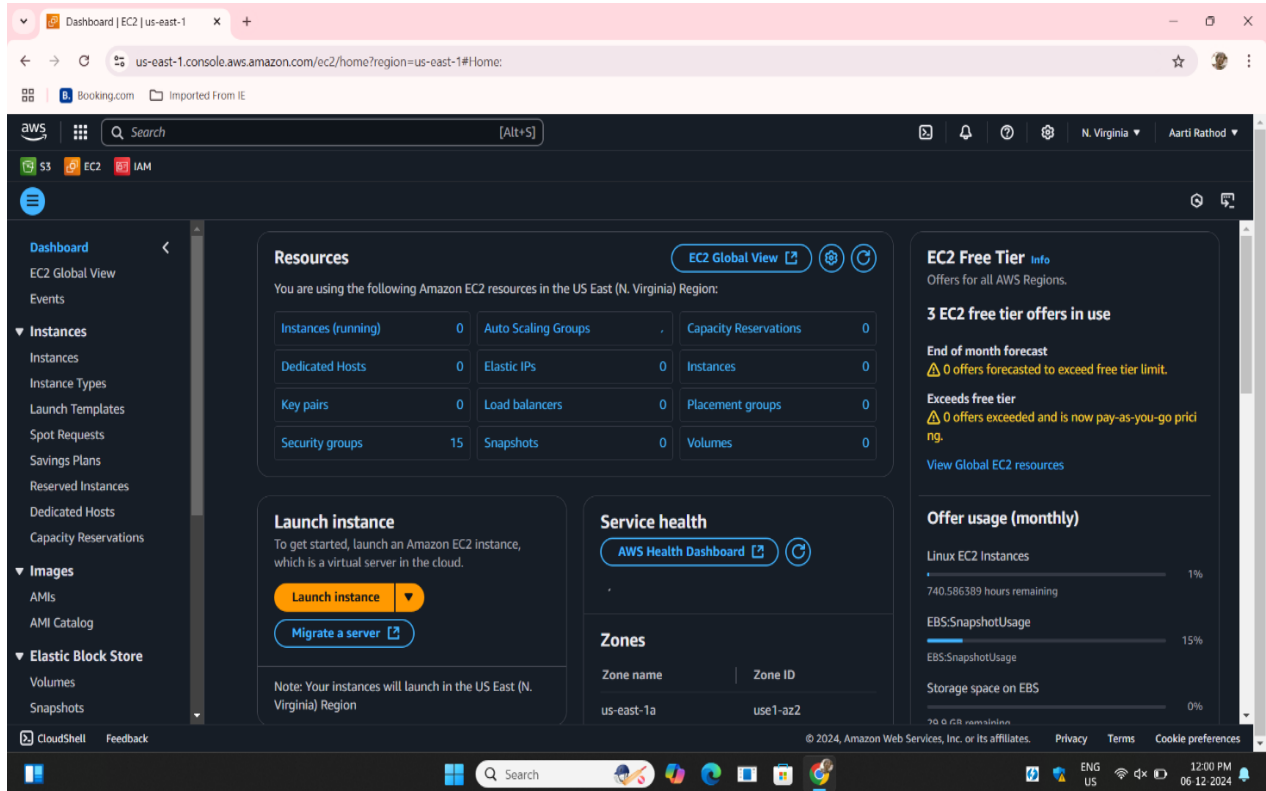
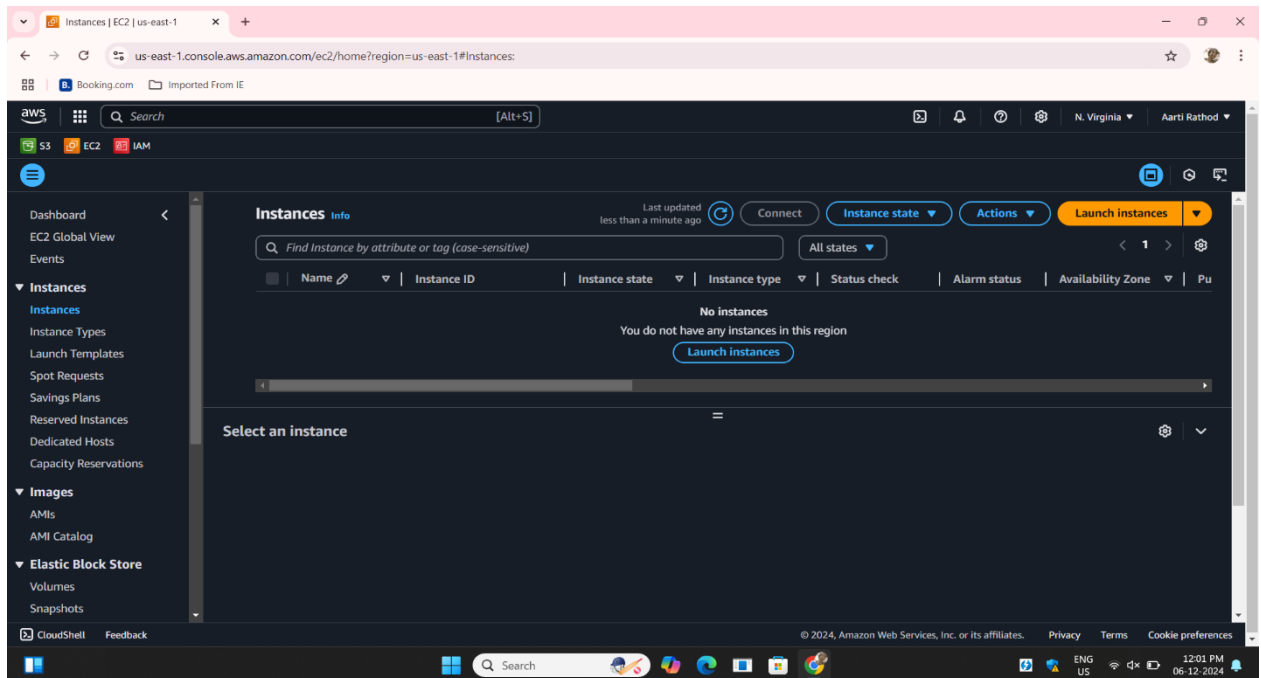


# Web Server Setup with Apache

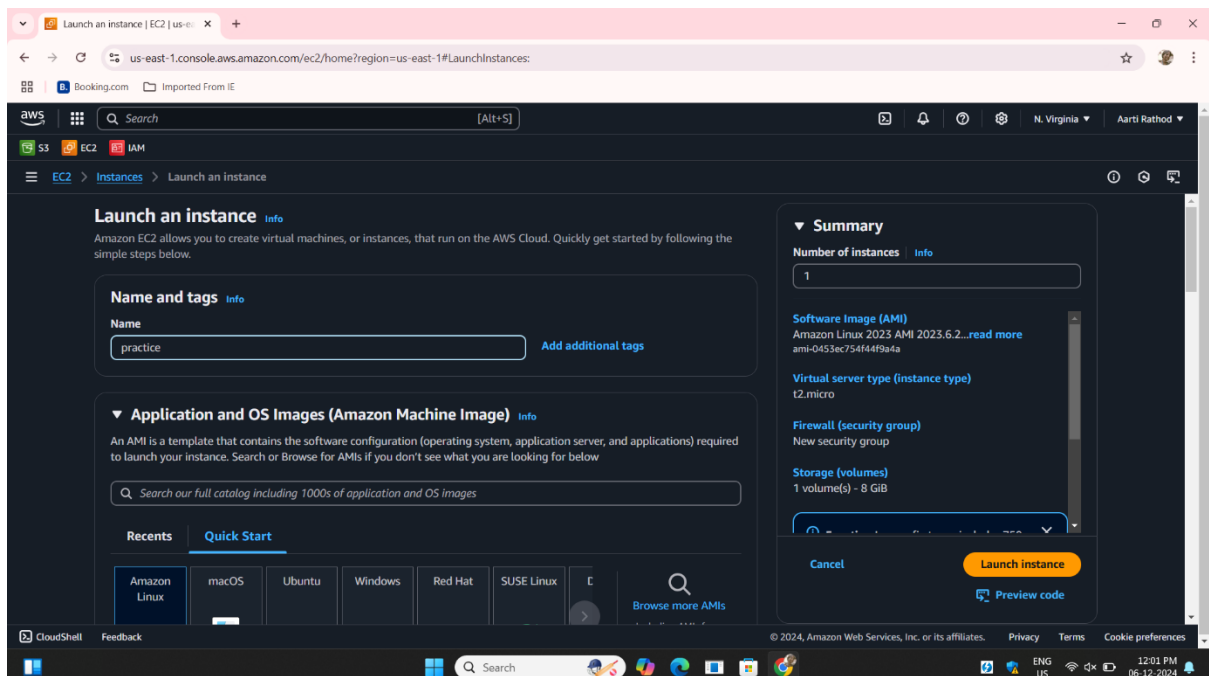
**Step 1 - Log in to the AWS Console:** Go to the [AWS Management Console](https://aws.amazon.com/console/) and log in. select the region which you want to create ec2 instance then Search for ec2 service.



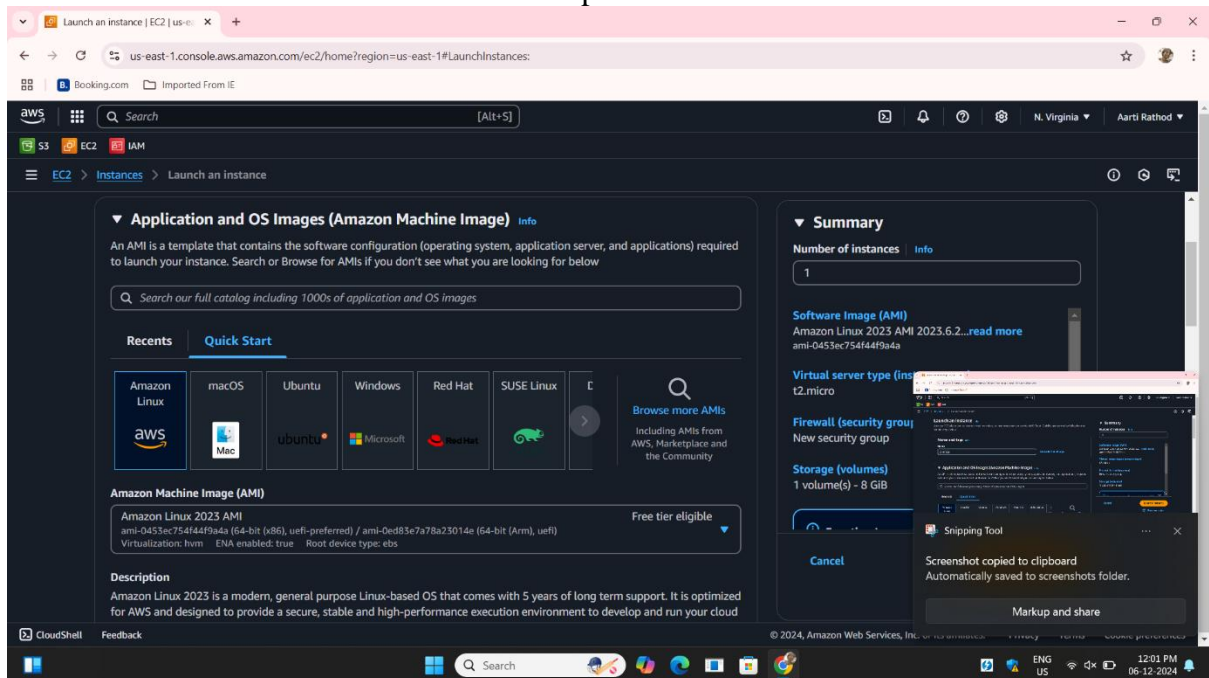
## Step 2 - Click on Launch Instances.



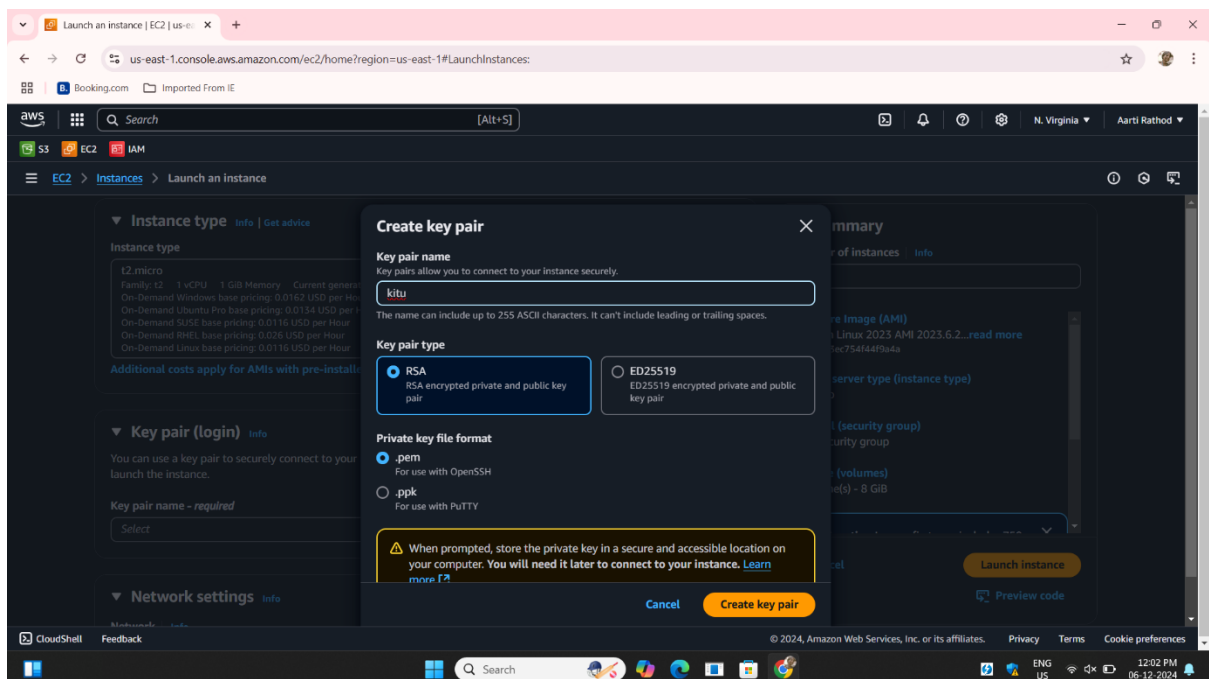
## Step 3- Give a Name and Tags to the instance.



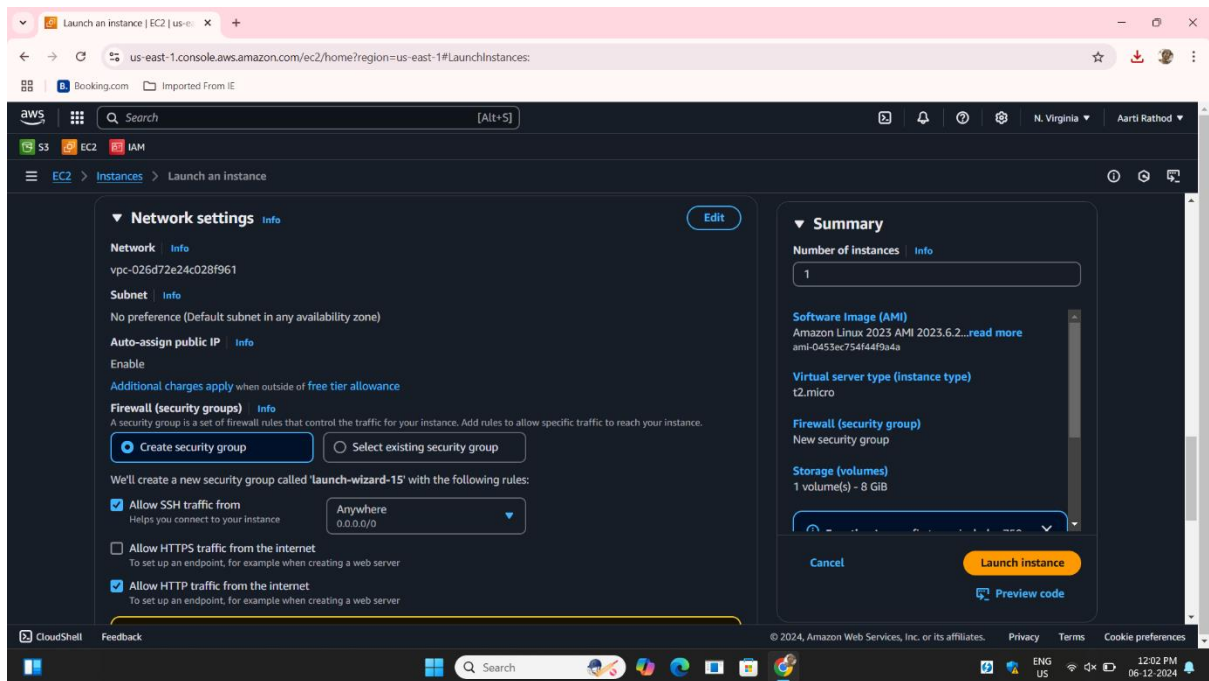
**Step 4- Choose an Amazon Machine Image (AMI):**Select an **Amazon Linux** or **Ubuntu** AMI. But we have to host website on linux apache we choose **linux**



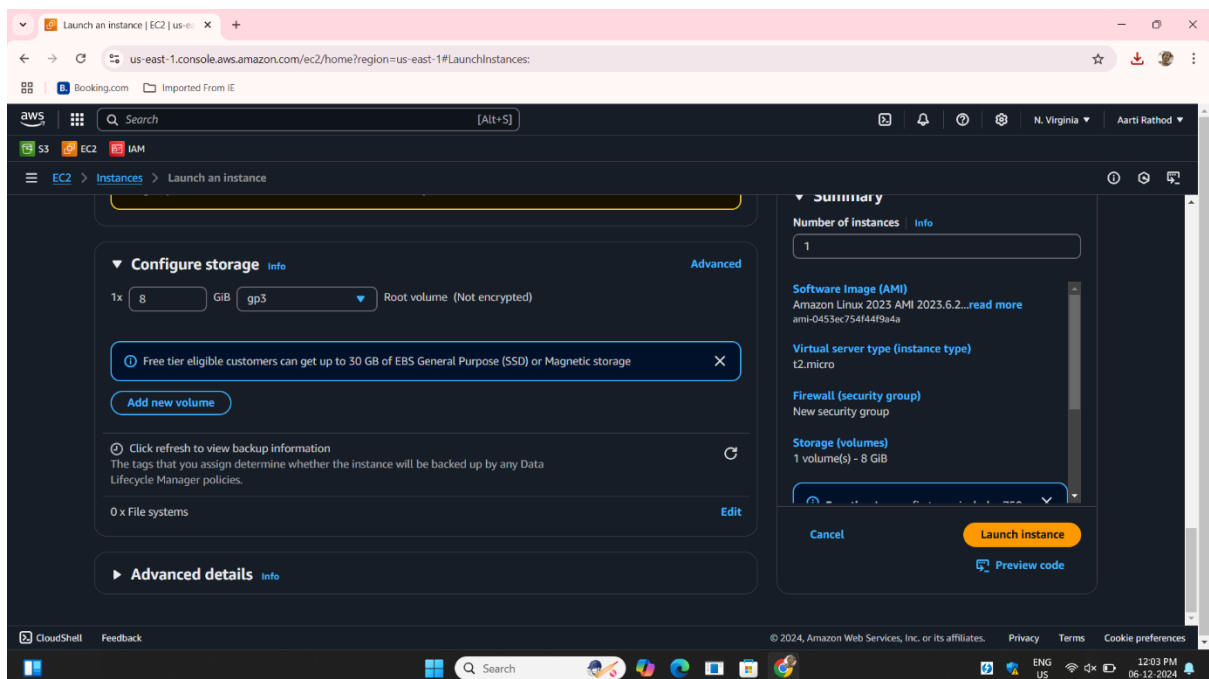
**Step 5 - Create or use an existing key pair for SSH access.**



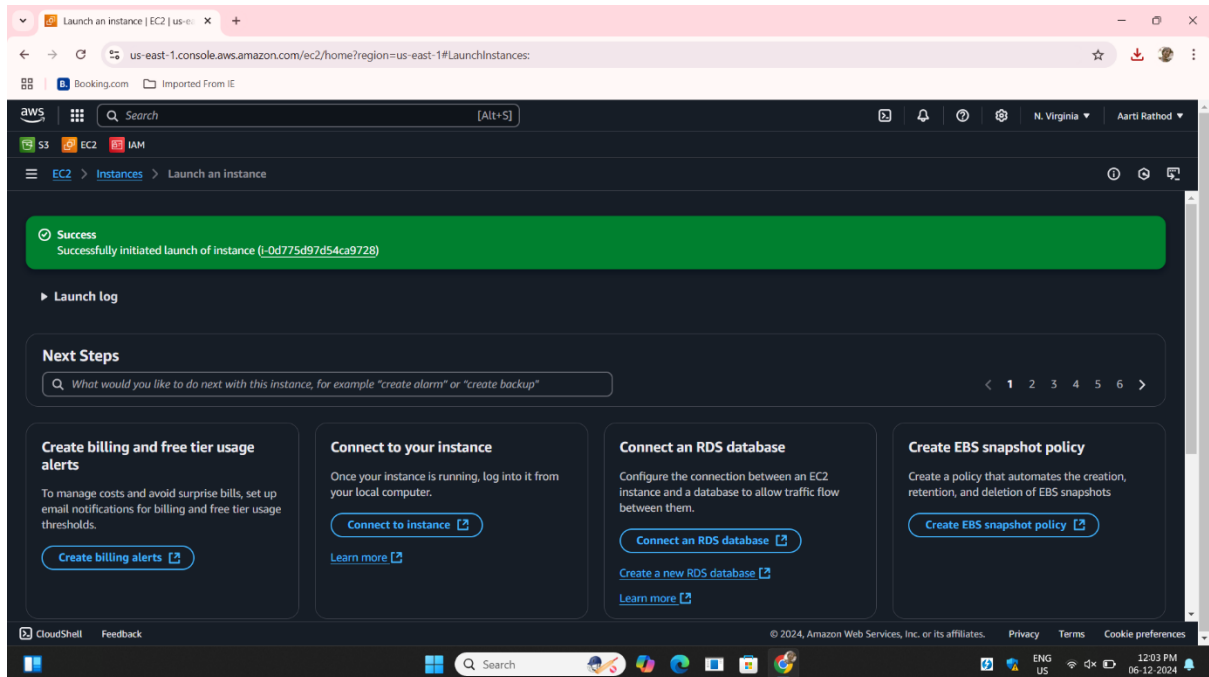
## Step 6 - Configure Security Group: Allow **HTTP** (port 80) and **SSH** (port 22).



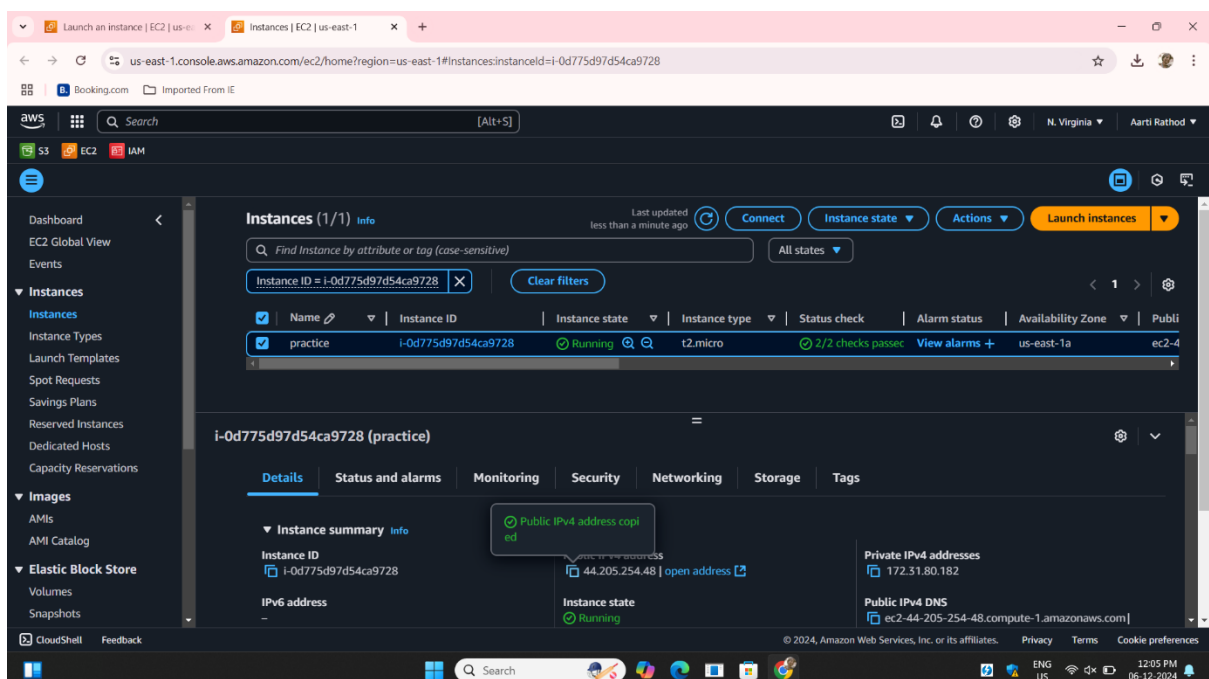
## Step 7 - Check Configure Storage if you want to increase you can. Click On **LAUNCH INSTANCE**.



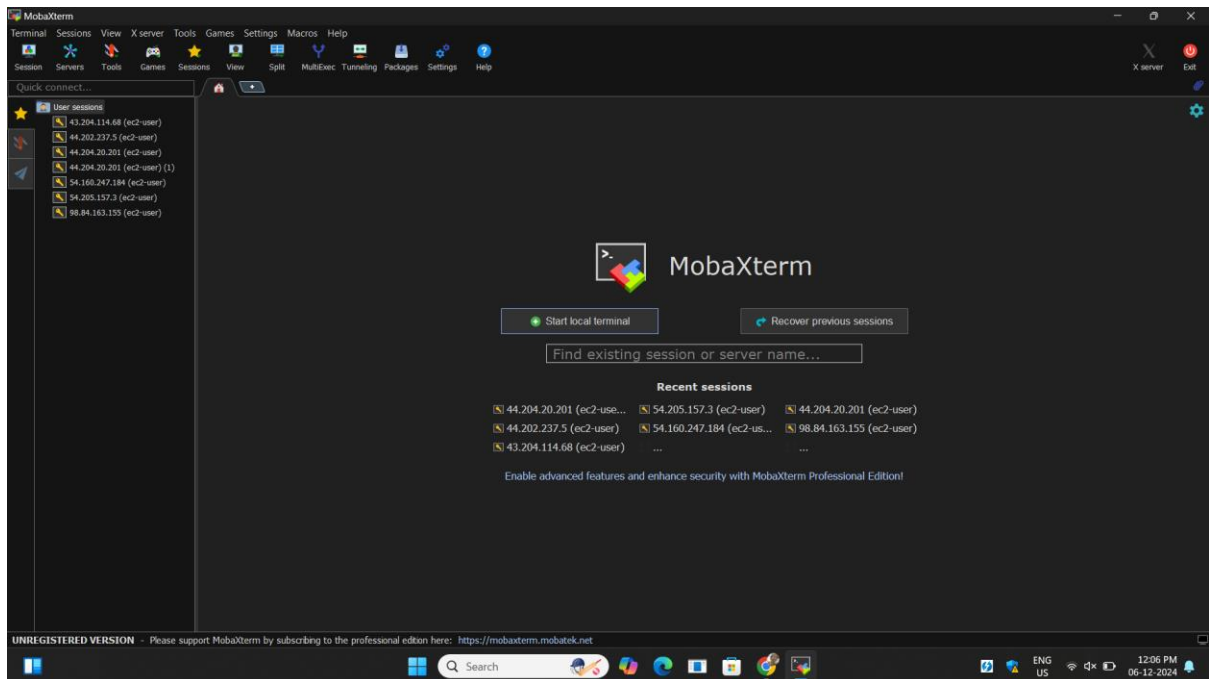
## Step 8 - Check the instance is Created or Not.



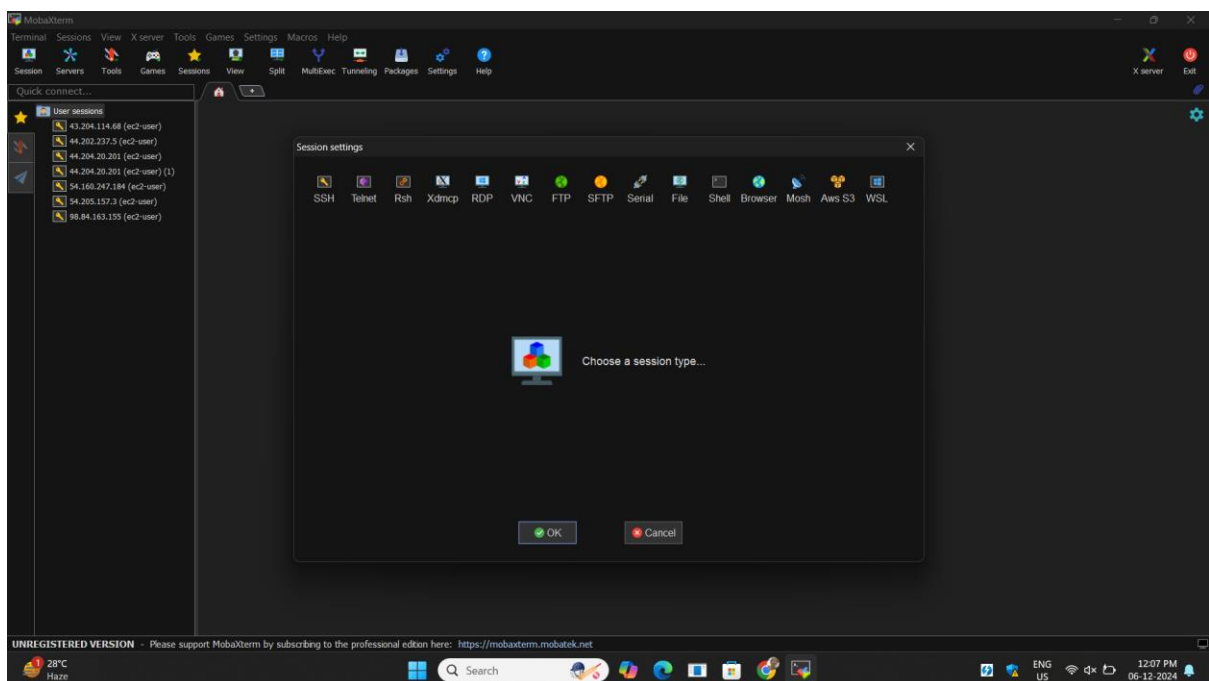
## Step 9 - Check The instance is in **Running State** And Status is **2/2 Check Passed**. Copy Public IP.



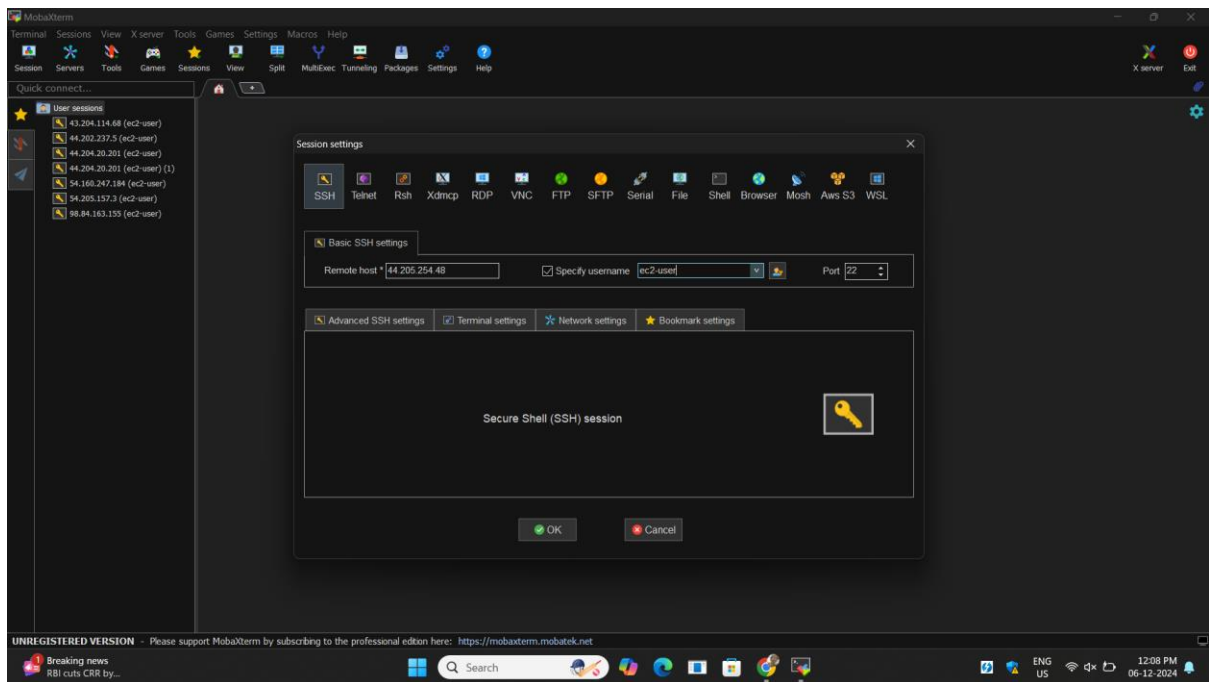
## Step 10 - Go To MobaXterm And Then Go to Session.



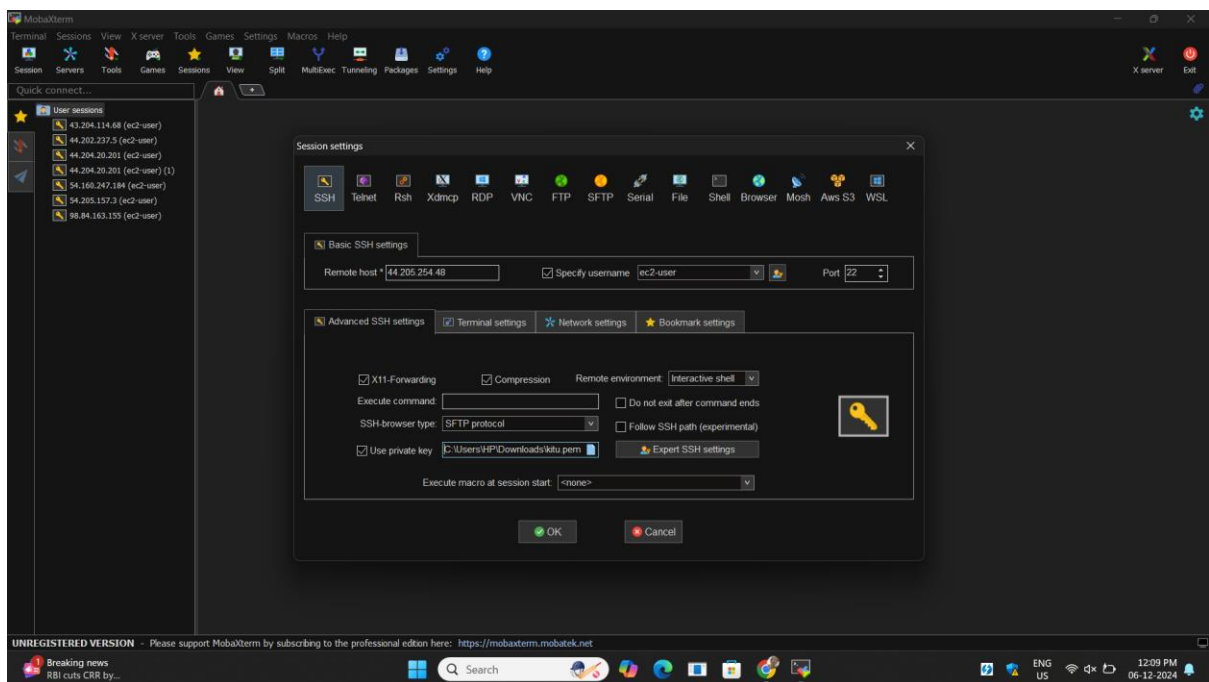
## Step 11 - Click On SSH.



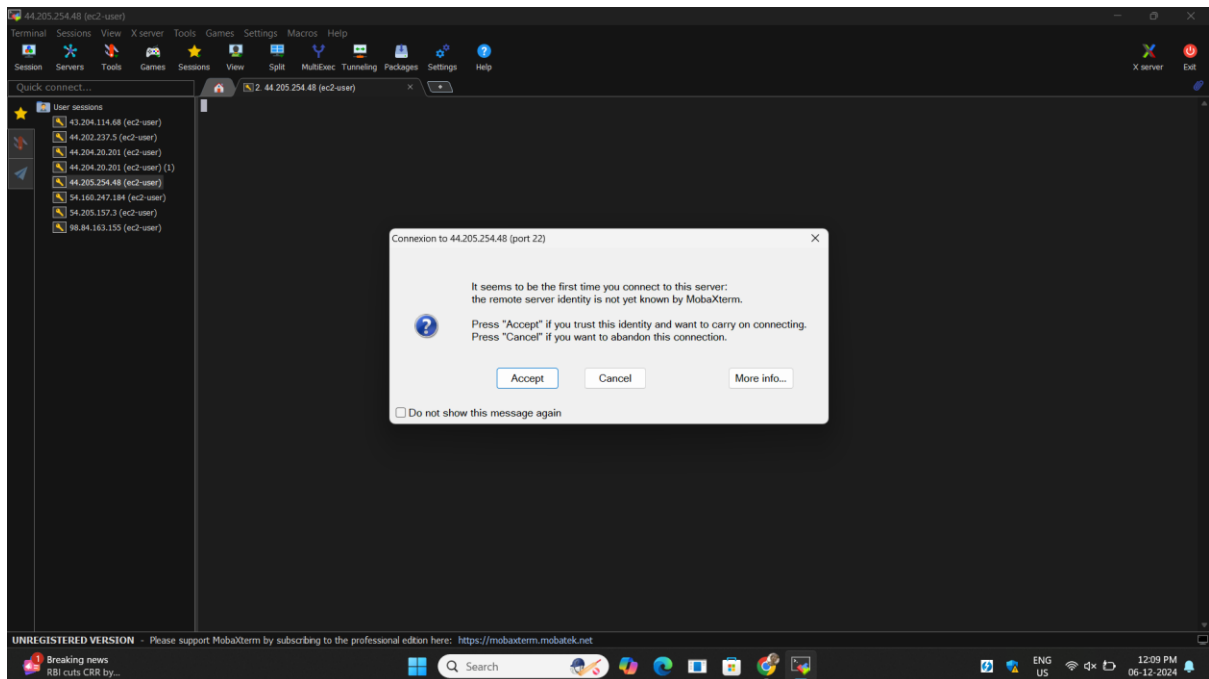
**Step 12** - Paste the Public IP which we Copy of EC2 Instance.  
Check On Specify Username add name **ec2-user**.



**Step 13** - Go to **Advanced SSH Settings** check use private key upload the key pair which we created when we create the instance. Click On Ok!

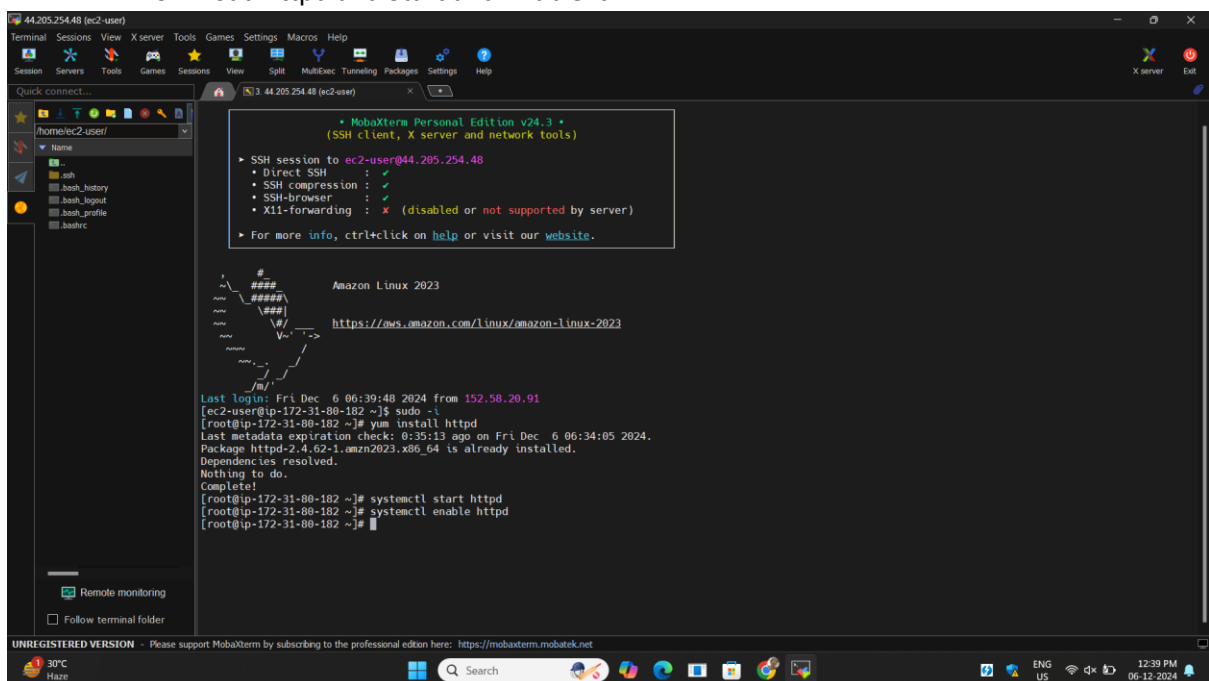


## Step 14 - Click On Accept.



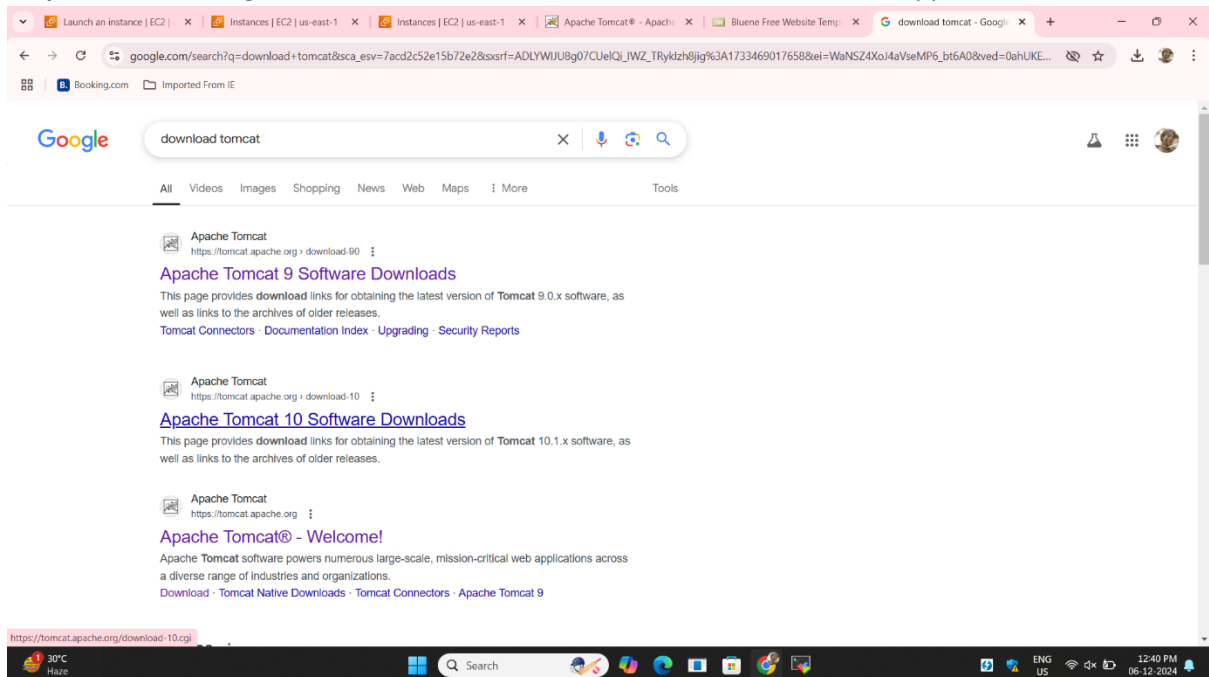
## Step 15 – Now the MobaXterm Terminal Is Open.

- You can write here Linux Commands .First we Move to the root user using **sudo -i** .
- Download **httpd** and Start and Enable it.

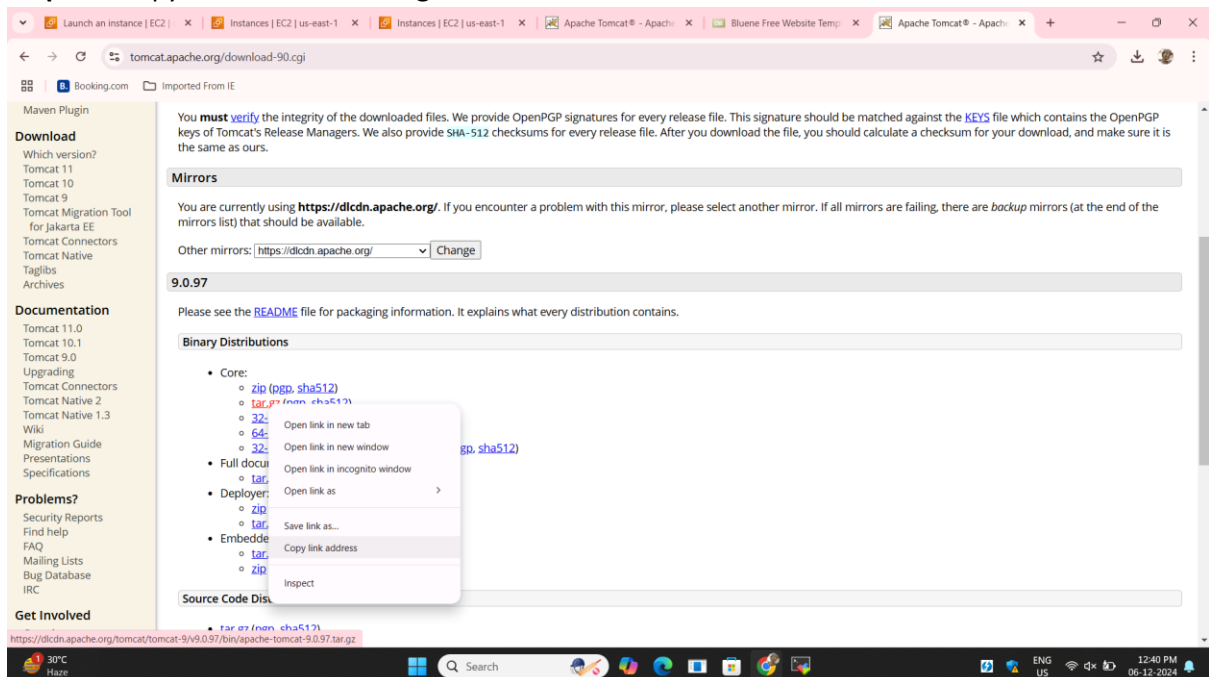




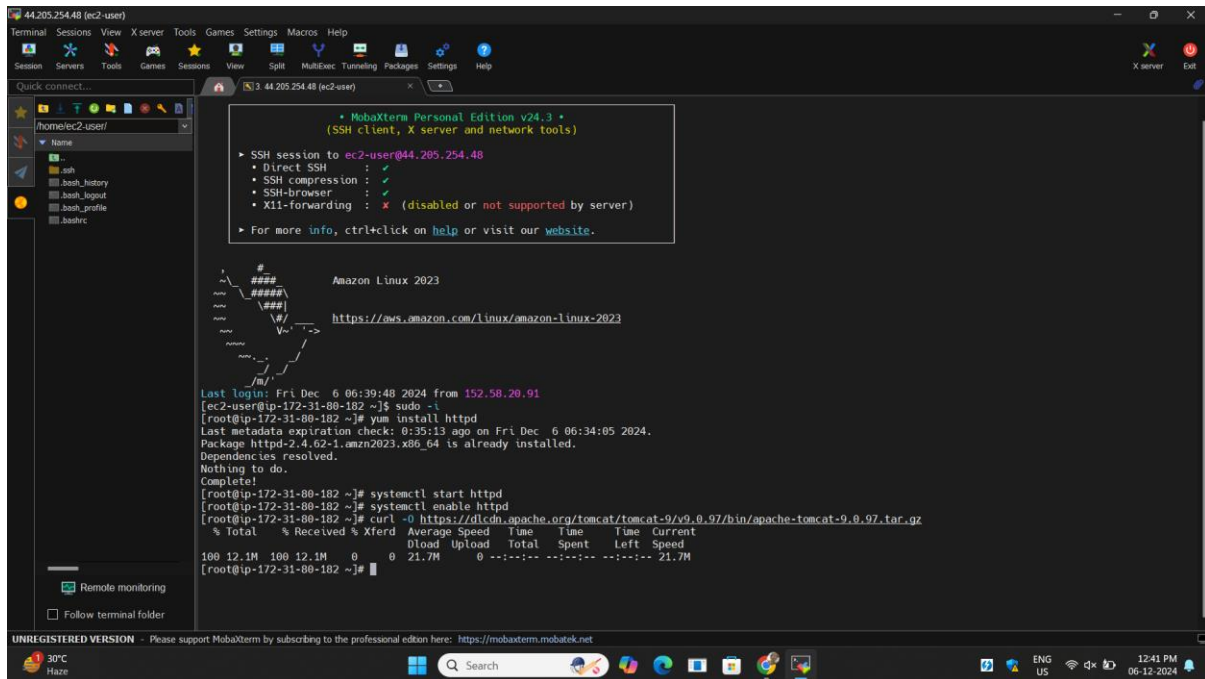
## Step 16 - Go to Google Search **Download Tomcat**. Click on First click which appear.



## Step 17 - Copy link Address of Tar.gz File.



## Step 18 - Paste the Link which we Copy with curl -O.



The screenshot shows a MobaXterm terminal window with the following content:

```
44.205.254.48 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split Multitask Tunneling Packages Settings Help
Quick connect...
home/ec2-user/
Name
.ssh
.ssh_history
.ssh_logout
.ssh_profile
.sshrc

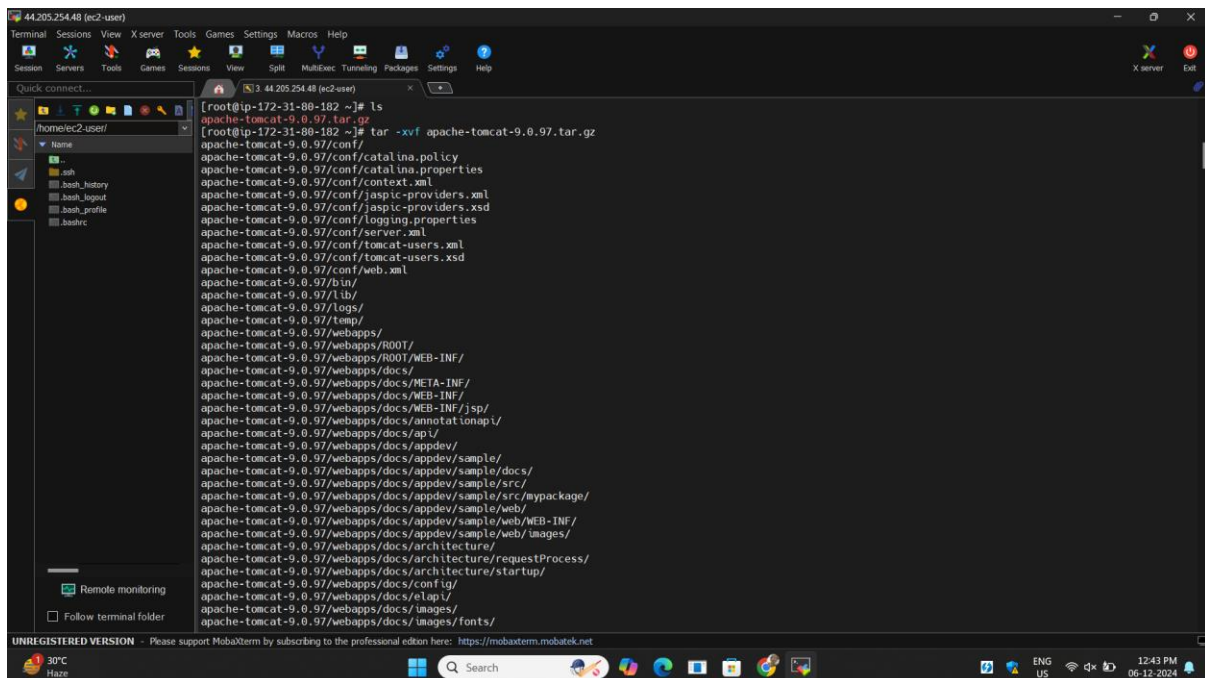
MobaXterm Personal Edition v24.3
(SSH client, X server and network tools)

SSH session to ec2-user@44.205.254.48
Direct SSH : ✓
SSH compression : ✓
SSH-browser : ✓
X11-forwarding : ✗ (disabled or not supported by server)
For more info, ctrl+click on help or visit our website.

Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023/

Last login: Fri Dec 6 06:39:48 2024 from 152.58.20.91
[ec2-user@ip-172-31-80-182 ~]$ sudo -i
[root@ip-172-31-80-182 ~]# yum install httpd
Last metadata expiration check: 0:35:13 ago on Fri Dec 6 06:34:05 2024.
Package httpd-2.4.62-1.amzn2023.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-80-182 ~]# systemctl start httpd
[root@ip-172-31-80-182 ~]# systemctl enable httpd
[root@ip-172-31-80-182 ~]# curl -O https://d1cdo.apacache.org/tomcat/tomcat-9/v9.0.97/bin/apache-tomcat-9.0.97.tar.gz
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 12.1M 100 12.1M 0 0 21.7M 0 --:--:-- --:--:-- --:--:-- 21.7M
[root@ip-172-31-80-182 ~]#
```

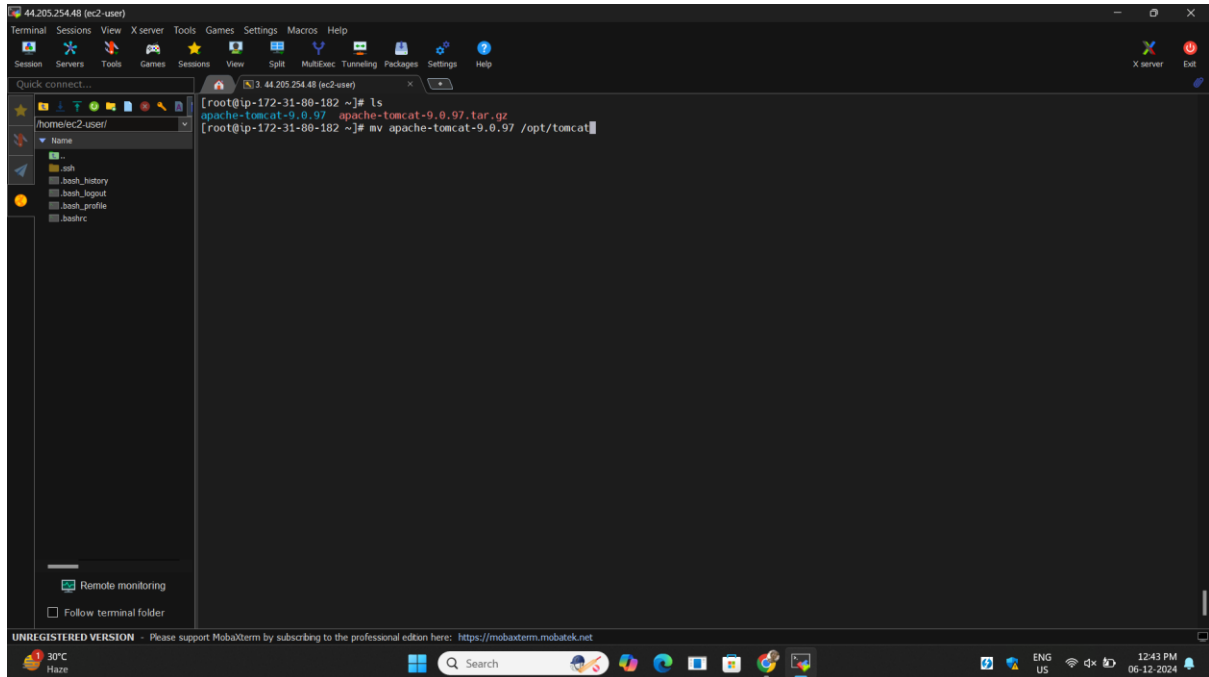
## Step 19 - Extract The Link with tar -xvf.



The screenshot shows the same MobaXterm terminal window with the following content:

```
[root@ip-172-31-80-182 ~]# ls
apache-tomcat-9.0.97.tar.gz
[root@ip-172-31-80-182 ~]# tar -xvf apache-tomcat-9.0.97.tar.gz
apache-tomcat-9.0.97/conf/
apache-tomcat-9.0.97/conf/catalina.policy
apache-tomcat-9.0.97/conf/catalina.properties
apache-tomcat-9.0.97/conf/context.xml
apache-tomcat-9.0.97/conf/jaspic-providers.xml
apache-tomcat-9.0.97/conf/jaspic-providers.xsd
apache-tomcat-9.0.97/conf/logging.properties
apache-tomcat-9.0.97/conf/server.xml
apache-tomcat-9.0.97/conf/tomcat-users.xml
apache-tomcat-9.0.97/conf/tomcat-users.xsd
apache-tomcat-9.0.97/conf/web.xml
apache-tomcat-9.0.97/bin/
apache-tomcat-9.0.97/lib/
apache-tomcat-9.0.97/logs/
apache-tomcat-9.0.97/temp/
apache-tomcat-9.0.97/webapps/
apache-tomcat-9.0.97/webapps/ROOT/
apache-tomcat-9.0.97/webapps/ROOT/WEB-INF/
apache-tomcat-9.0.97/webapps/docs/
apache-tomcat-9.0.97/webapps/docs/META-INF/
apache-tomcat-9.0.97/webapps/docs/WEB-INF/
apache-tomcat-9.0.97/webapps/docs/WEB-INF/jsp/
apache-tomcat-9.0.97/webapps/docs/annotationapi/
apache-tomcat-9.0.97/webapps/docs/api/
apache-tomcat-9.0.97/webapps/docs/appdev/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/docs/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/src/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/src/eyepackage/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/web/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/web/WEB-INF/
apache-tomcat-9.0.97/webapps/docs/appdev/sample/web/images/
apache-tomcat-9.0.97/webapps/docs/architecture/
apache-tomcat-9.0.97/webapps/docs/architecture/requestProcess/
apache-tomcat-9.0.97/webapps/docs/architecture/startup/
apache-tomcat-9.0.97/webapps/docs/config/
apache-tomcat-9.0.97/webapps/docs/elapi/
apache-tomcat-9.0.97/webapps/docs/images/
apache-tomcat-9.0.97/webapps/docs/images/fonts/
```

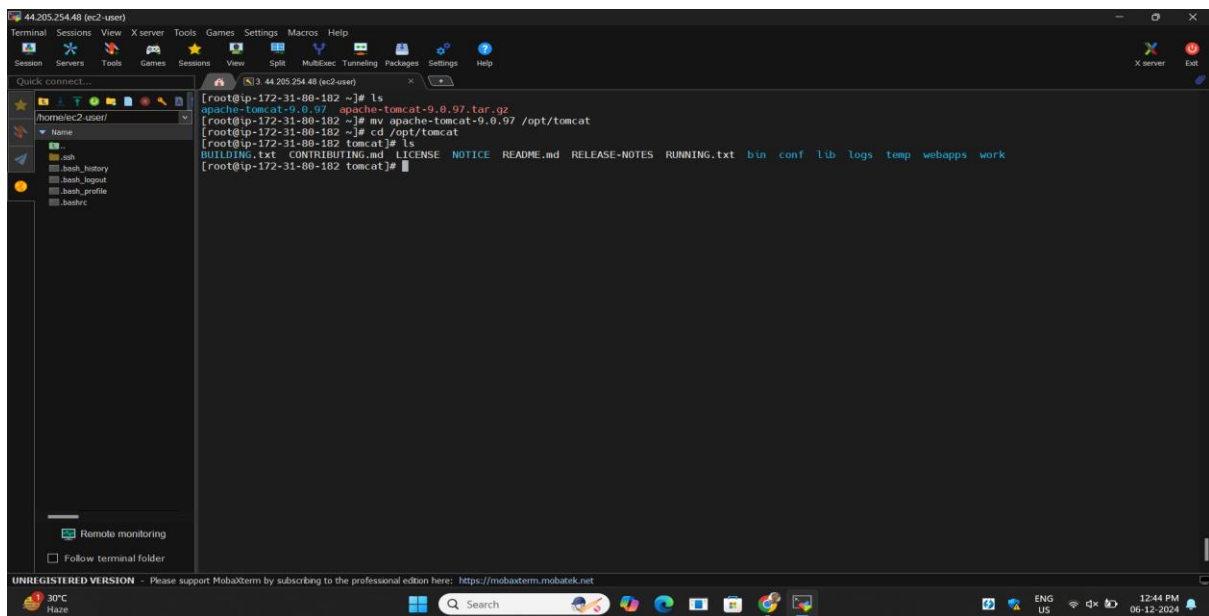
## Step 20 - Move the file to the /opt/tomcat.



The screenshot shows a MobaXterm terminal window with the following commands and output:

```
[root@ip-172-31-80-182 ~]# ls
apache-tomcat-9.0.97  apache-tomcat-9.0.97.tar.gz
[root@ip-172-31-80-182 ~]# mv apache-tomcat-9.0.97 /opt/tomcat
```

The terminal window also displays a file explorer on the left side, showing the contents of the home directory, including .ssh, .bash\_history, .bash\_logout, .bash\_profile, and .bashrc. The status bar at the bottom indicates the system is running on a 30°C Haze environment, with a search bar and system icons.

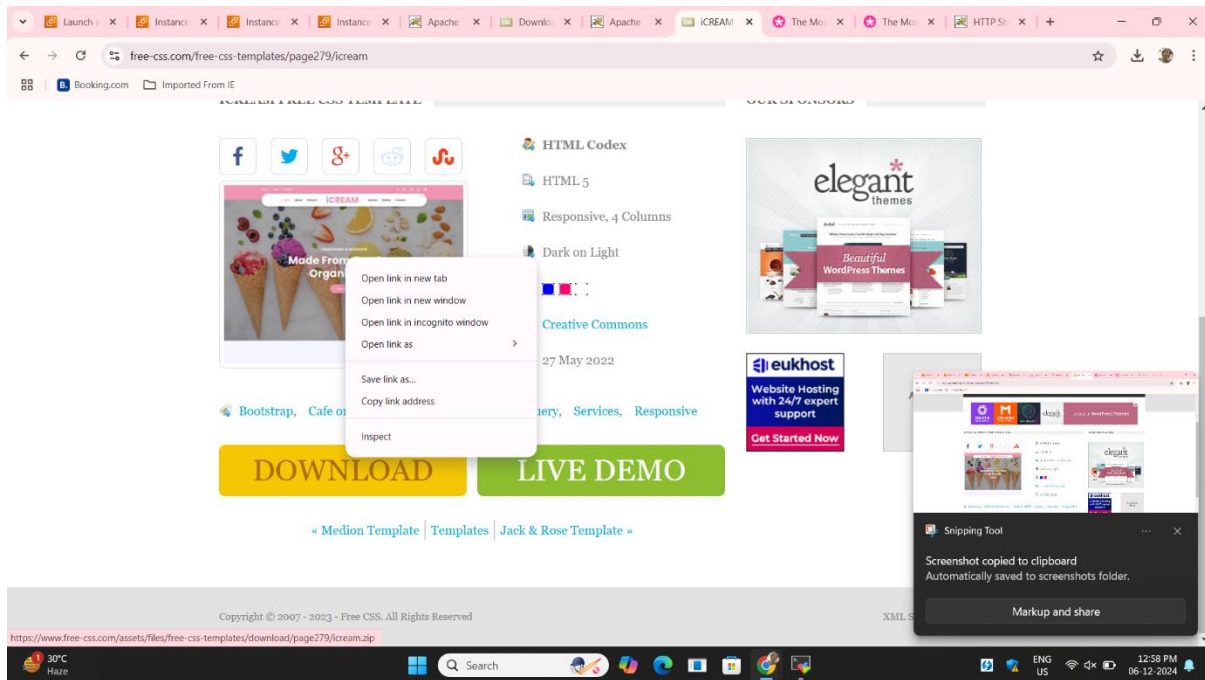


The screenshot shows a MobaXterm terminal window with the following commands and output:

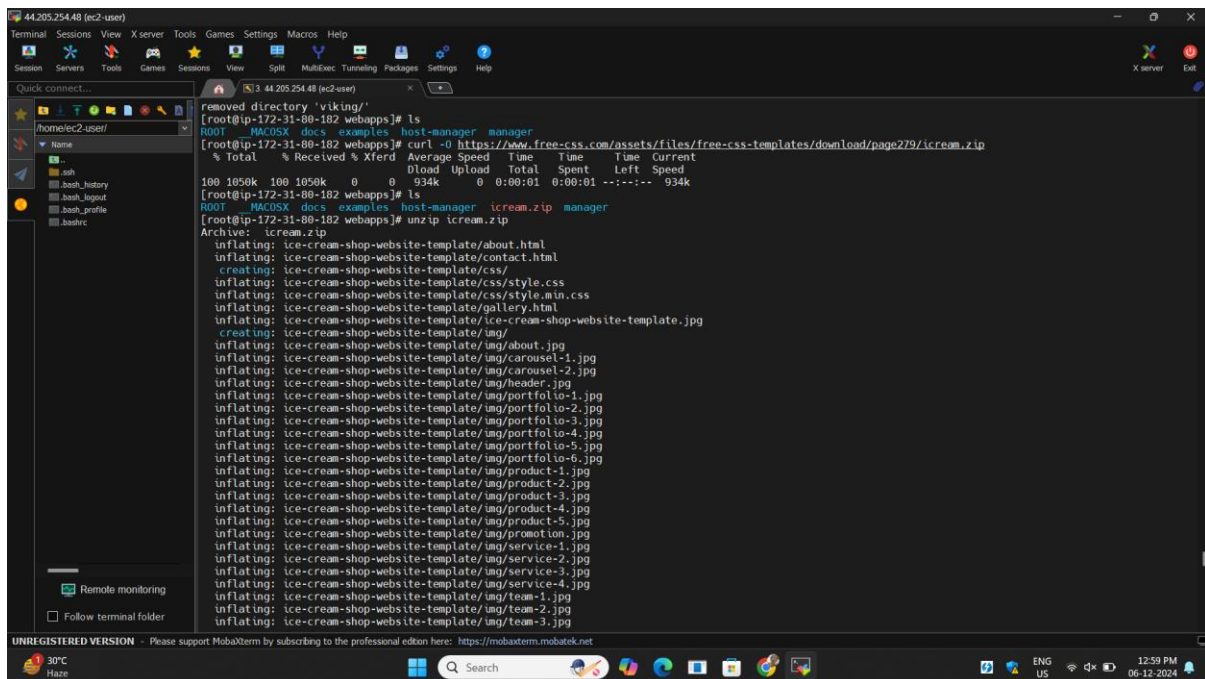
```
[root@ip-172-31-80-182 ~]# ls
apache-tomcat-9.0.97  apache-tomcat-9.0.97.tar.gz
[root@ip-172-31-80-182 ~]# mv apache-tomcat-9.0.97 /opt/tomcat
[root@ip-172-31-80-182 tomcat]# ls
BUILDING.txt  CONTRIBUTING.md  LICENSE  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  bin  conf  lib  logs  temp  webapps  work
```

The terminal window also displays a file explorer on the left side, showing the contents of the home directory, including .ssh, .bash\_history, .bash\_logout, .bash\_profile, and .bashrc. The status bar at the bottom indicates the system is running on a 30°C Haze environment, with a search bar and system icons.

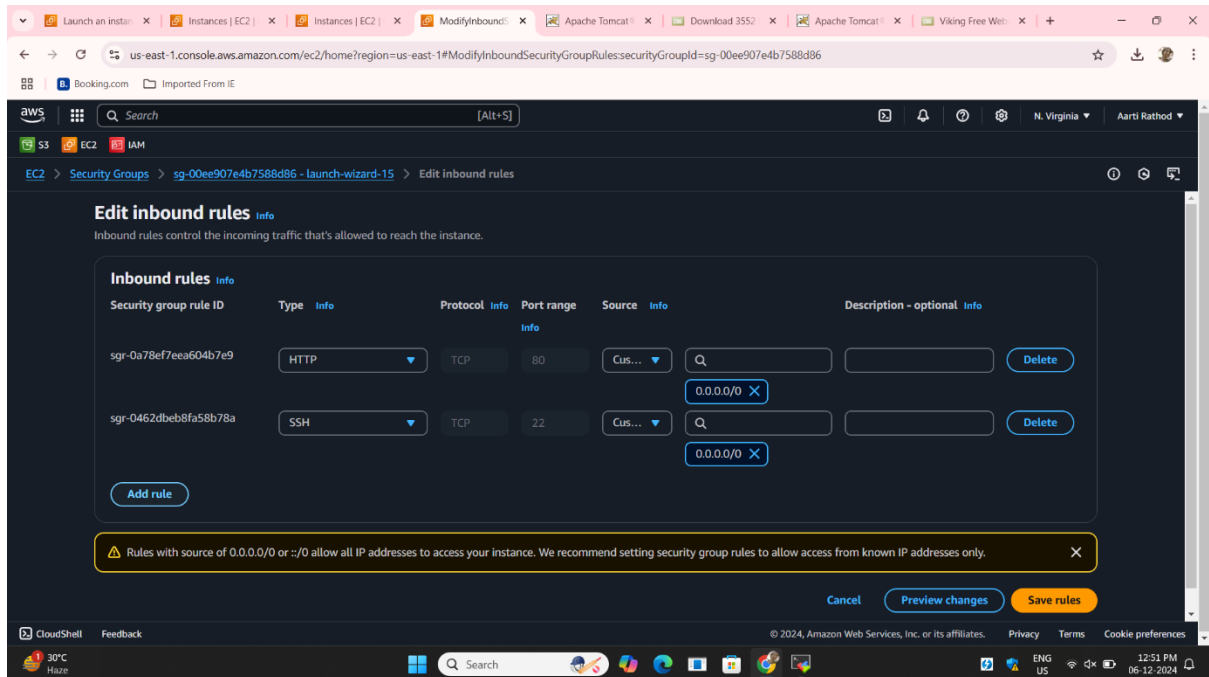
**Step 21 - Go to Google then Search for **CSS Free Template** Select one and **Copy link address**.**



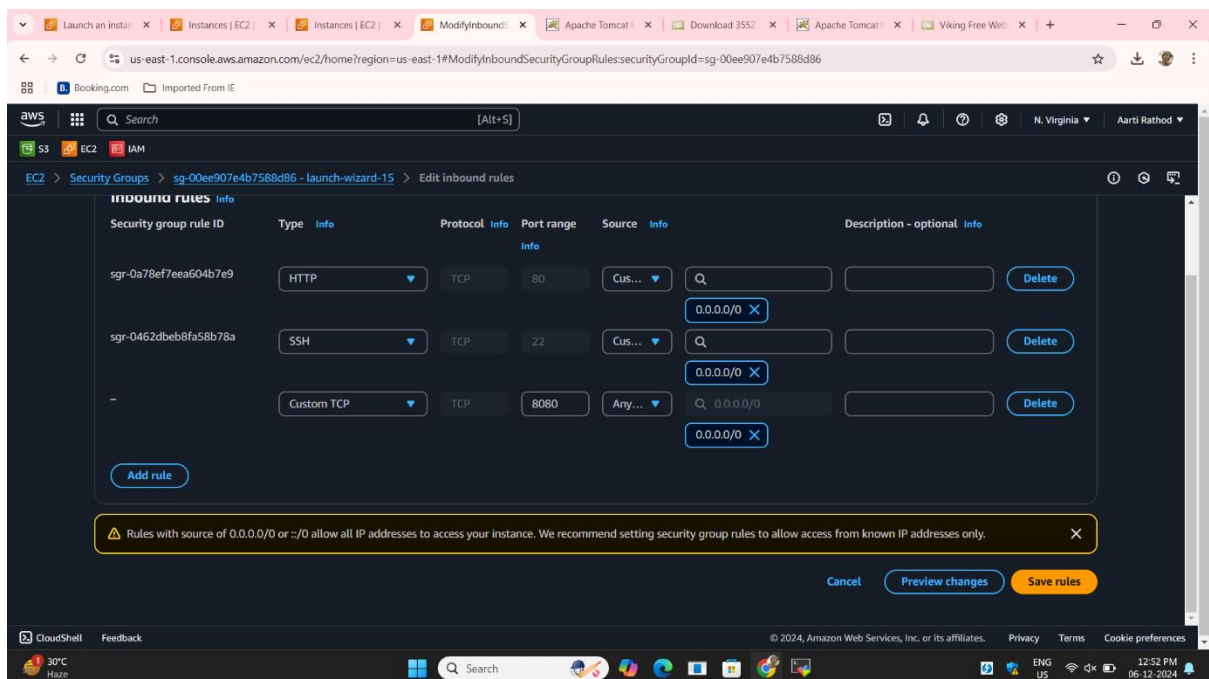
**Step 22 - go to webapps Download the Free CSS Template with **Curl -O** and **unzip** it.**



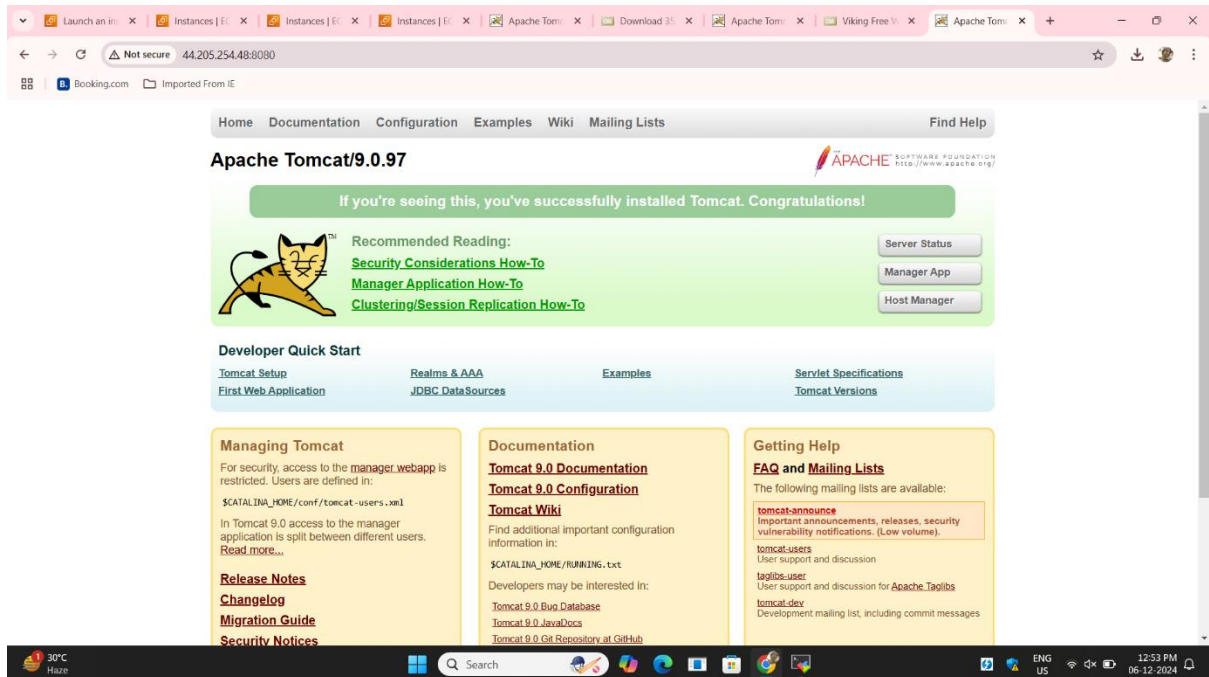
## Step 23 - Go to EC2 instance then security Groups and edit inbound rules.



## Step 24 - Click Add rule add 8080 port and select anywhere and then save rules.



**Step 25 - Copy Public IP paste on new tab with 8080 to check apache is working.**





**Step 26** - Paste the name of Folder which we extract on **webapps** .Here your Website is host with ec2 instance using Linux oprating system and apache.

