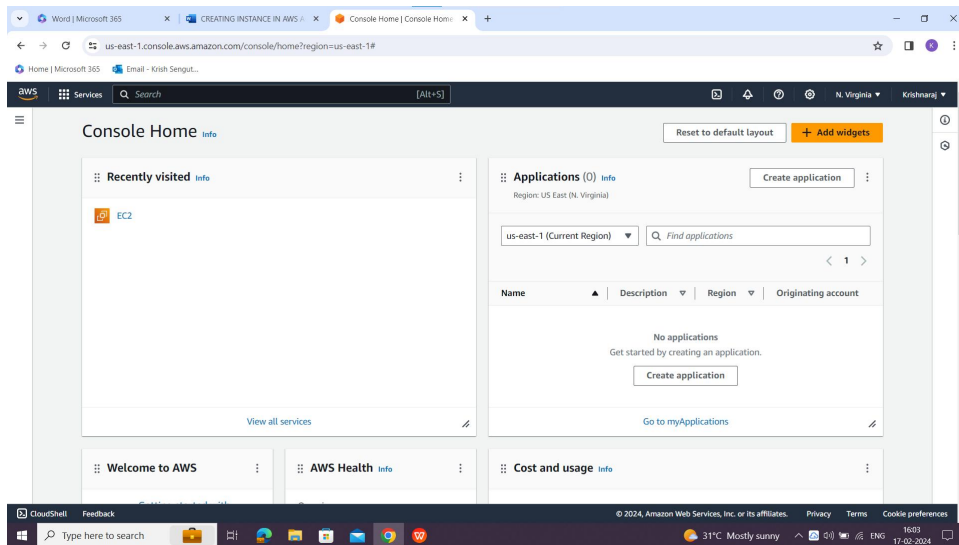


# CREATING INSTANCE IN AWS AND INSTALLING JENKINS

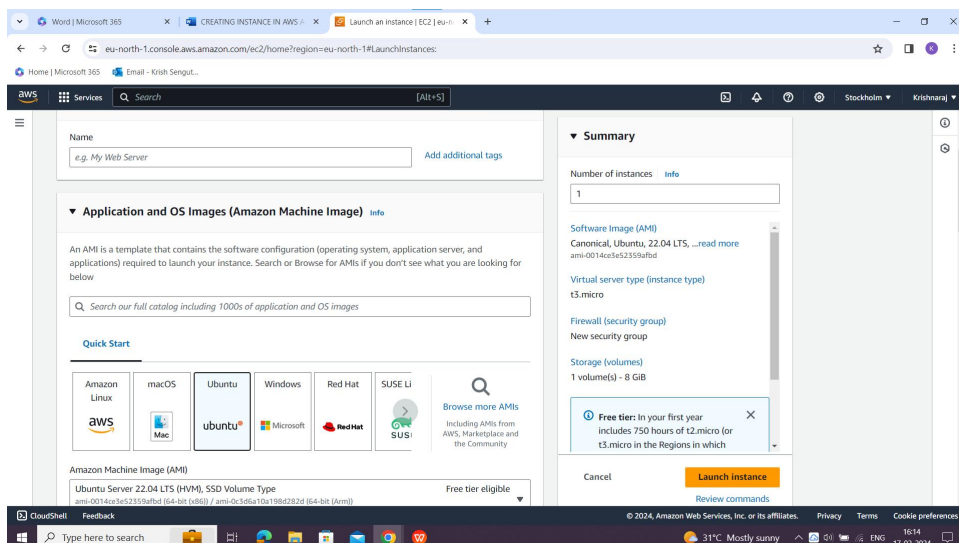
Krishnaraj S

ACE11698

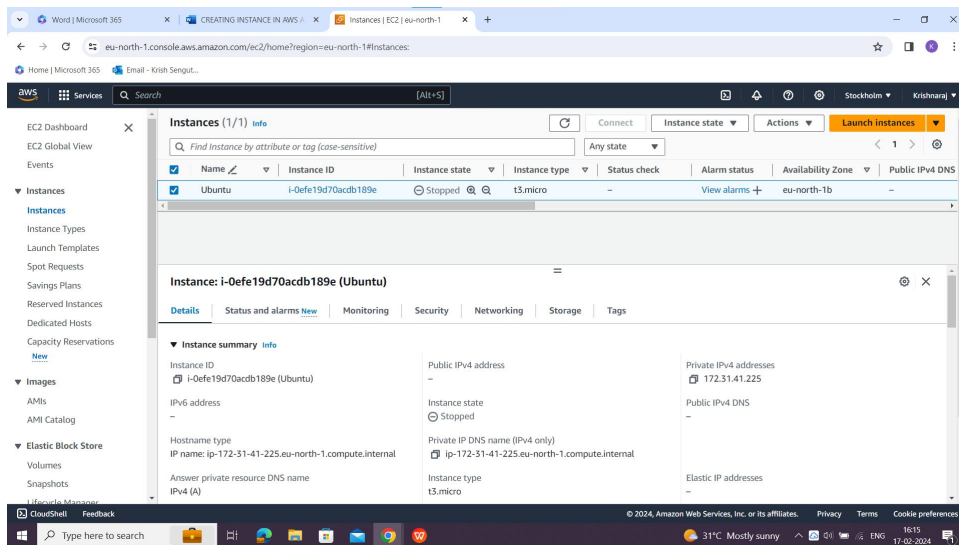
- Create an account in AWS



- Create an EC2 instance with a meaningful name on Ubuntu with required specifications.



- Below image is the instance which is created.
- Now launch the instance.



## STEPS TO INSTALL JENKINS ON THE UBUNTU:

- *Update Apt Repository:* Make sure your system's package index is up-to-date by running:

```
sudo apt update
```

- *Install Java Development Kit (JDK):* Jenkins requires Java to run. You can install OpenJDK using the following command:

```
sudo apt install default-jdk -y
```

- *Add Jenkins Repository Key:* Add the Jenkins repository key to your system to enable installation from the Jenkins repository:

```
wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add
```

- *Add Jenkins Repository:* Add the Jenkins Debian repository to your system's sources.list:

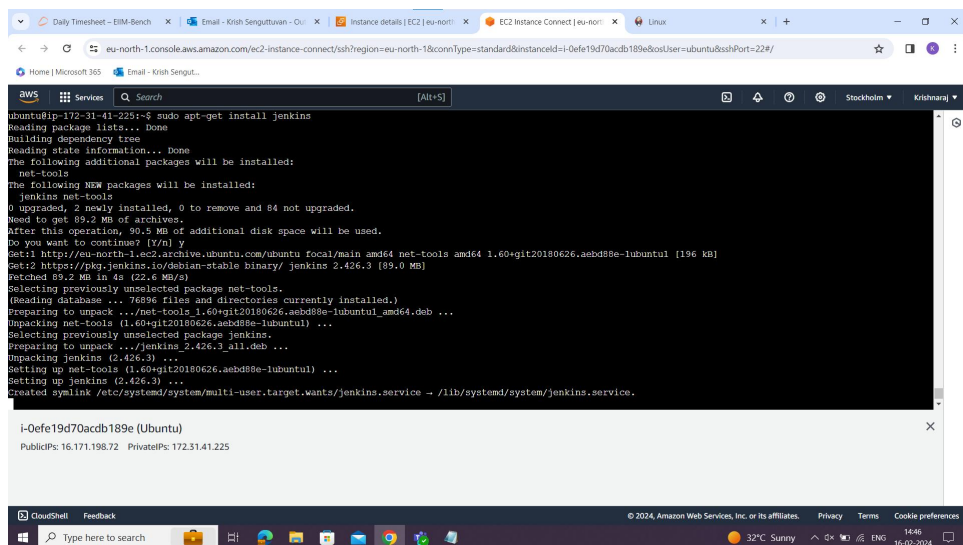
```
sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources
```

- *Update Apt Repository: Update the package index again to include the Jenkins repository:*

```
sudo apt update
```

- *Install Jenkins: Finally, install Jenkins using the apt package manager:*

```
sudo apt install jenkins -y
```

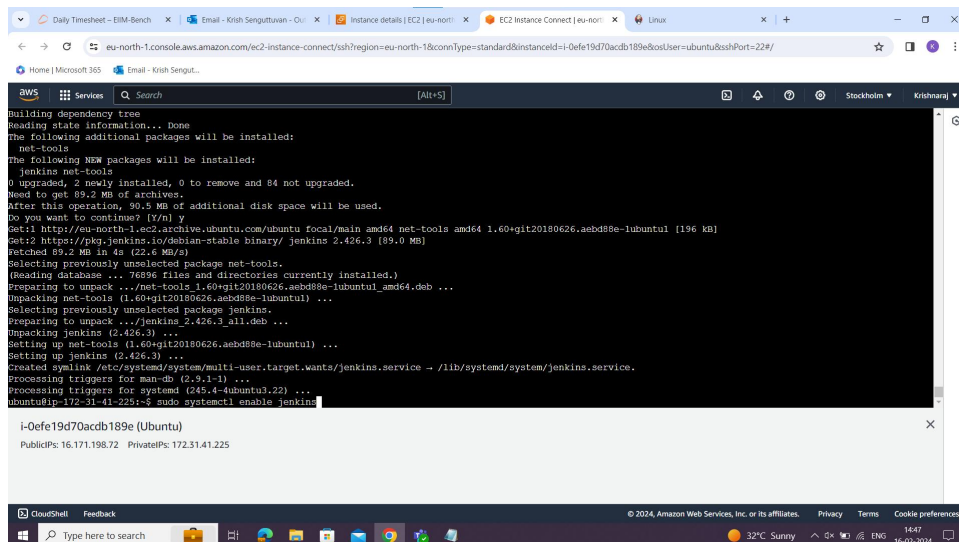


```
ubuntu@ip-172-31-41-225:~$ sudo apt-get install jenkins
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 84 not upgraded.
Need to get 89.2 MB of archives.
After this operation, 90.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eu-north-1-ec2.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 KB]
Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.426.3 [89.0 MB]
Fetched 89.2 MB in 4s (22.6 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 76896 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.426.3_all.deb ...
Unpacking jenkins (2.426.3) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service - /lib/systemd/system/jenkins.service.

j-Oefe19d70acdb189e (Ubuntu)
PublicIPs: 16.171.198.72 PrivateIPs: 172.31.41.225
```

- *Start Jenkins Service: After installation, start the Jenkins service and enable it to start on boot:*

```
sudo systemctl start jenkins
sudo systemctl enable jenkins
```

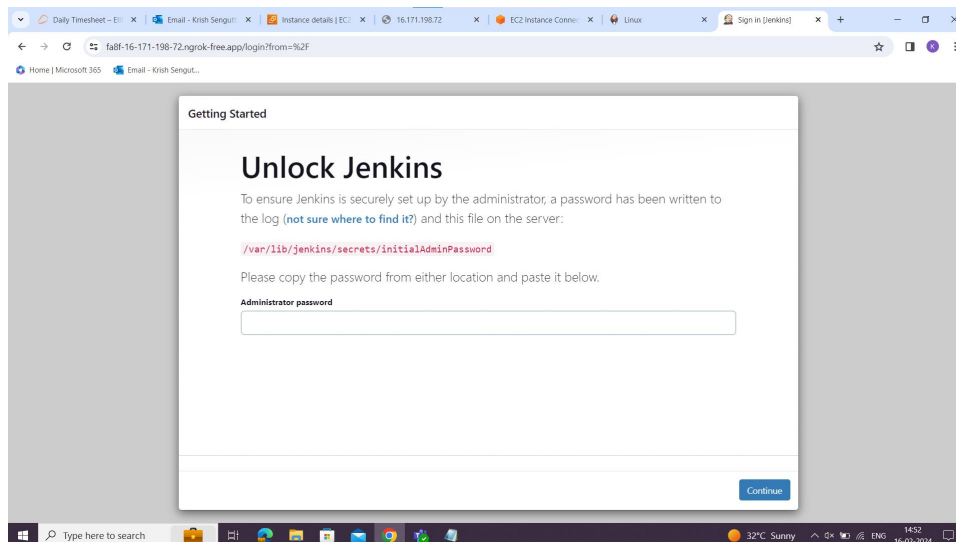


```
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 84 not upgraded.
Need to get 89.2 MB of archives.
After this operation, 90.5 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-lubuntul [196 kB]
Get:2 https://pkg.jenkins.io/debian-stable binary/ jenkins 2.426.3 [89.0 MB]
Fetched 89.2 MB in 4s (22.6 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 76896 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-lubuntul_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-lubuntul) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.426.3_all.deb ...
Unpacking jenkins (2.426.3) ...
Setting up net-tools (1.60+git20180626.aebd88e-lubuntul) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-ubuntu3.22) ...
ubuntu@ip-172-31-41-225:~$ sudo systemctl enable jenkins
```

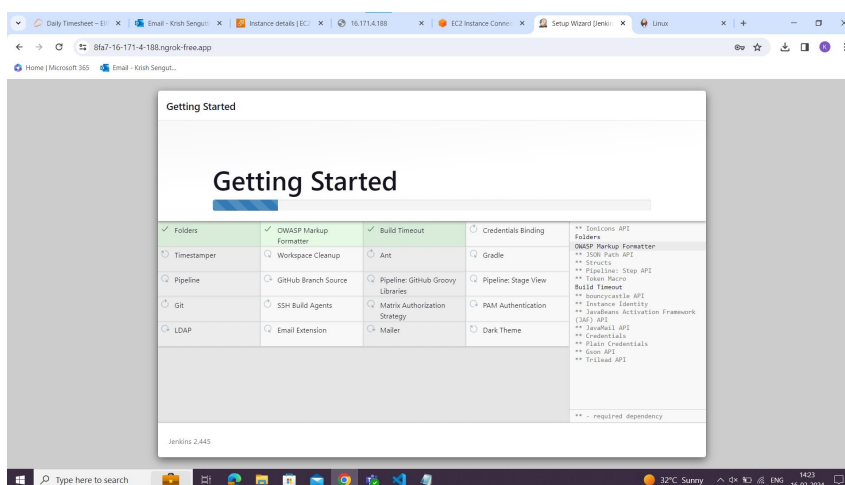
- **Check Jenkins Service Status:** You can verify that Jenkins is running by checking its status:

```
sudo systemctl status jenkins
```

- **Access Jenkins Web Interface:** Jenkins web interface runs on port 8080 by default. You can access it using a web browser by navigating to `http://your_server_ip_or_domain:8080`. If you're running Jenkins on your local machine, you can use <http://localhost:8080>.
- In my case: <http://172.31.41.225:8080>



- **Unlock Jenkins:** Upon accessing the web interface for the first time, you'll be prompted to unlock Jenkins. You'll find the initial admin password in the file `/var/lib/jenkins/secrets/initialAdminPassword`. You can use the following command to view the password.
- After Unlocking the Jenkins install the suggested plugins for smoother usage of Jenkins.



- **Start Using Jenkins:** Once you've completed the setup, you can start using Jenkins for your continuous integration and continuous deployment needs.

