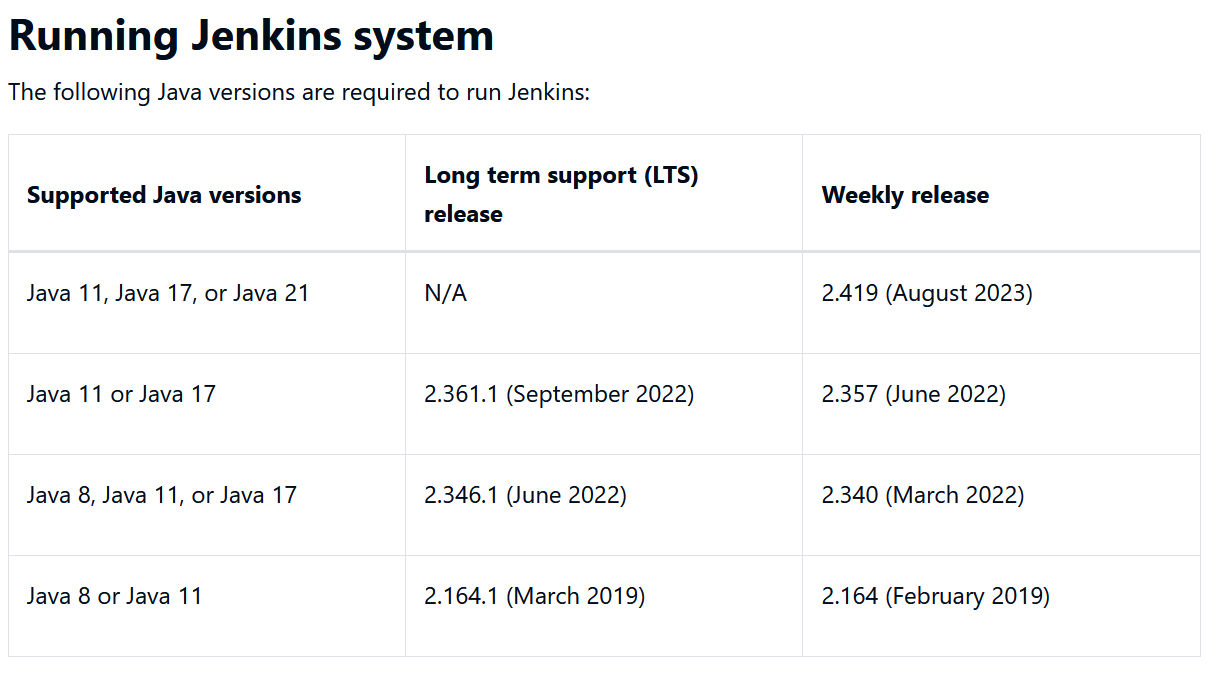
**Jenkins**

Prerequisite:



**In Windows OS**

To download Java17

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https://www.oracle.com/java/technologies/downloads/#jdk17-windows

To download Jenkins

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<https://www.jenkins.io/download/#downloading-jenkins>

**Installing Jenkins in RedHat in AWS**

Reference Links:

<https://www.jenkins.io/doc/book/installing/linux/#red-hat-centos>

Steps to create RedHat Instance in AWS:

1. Go to EC2 service in AWS account 🡪Click on Instances
2. Click on Launch instance
3. Fill/Select instance details as follows
   1. Enter name as “Jenkin\_Server”

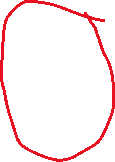
A screenshot of a computer

Description automatically generated

* 1. Select RedHat from available OS images

A screenshot of a computer

Description automatically generated



* 1. Select keyvalue pair -> click on create new key pair

A screenshot of a chat

Description automatically generated

* 1. The following window will be generated. Enter any name like “jenkinkey” in text box and click create new key pair of type RSA in **.pem** file format.

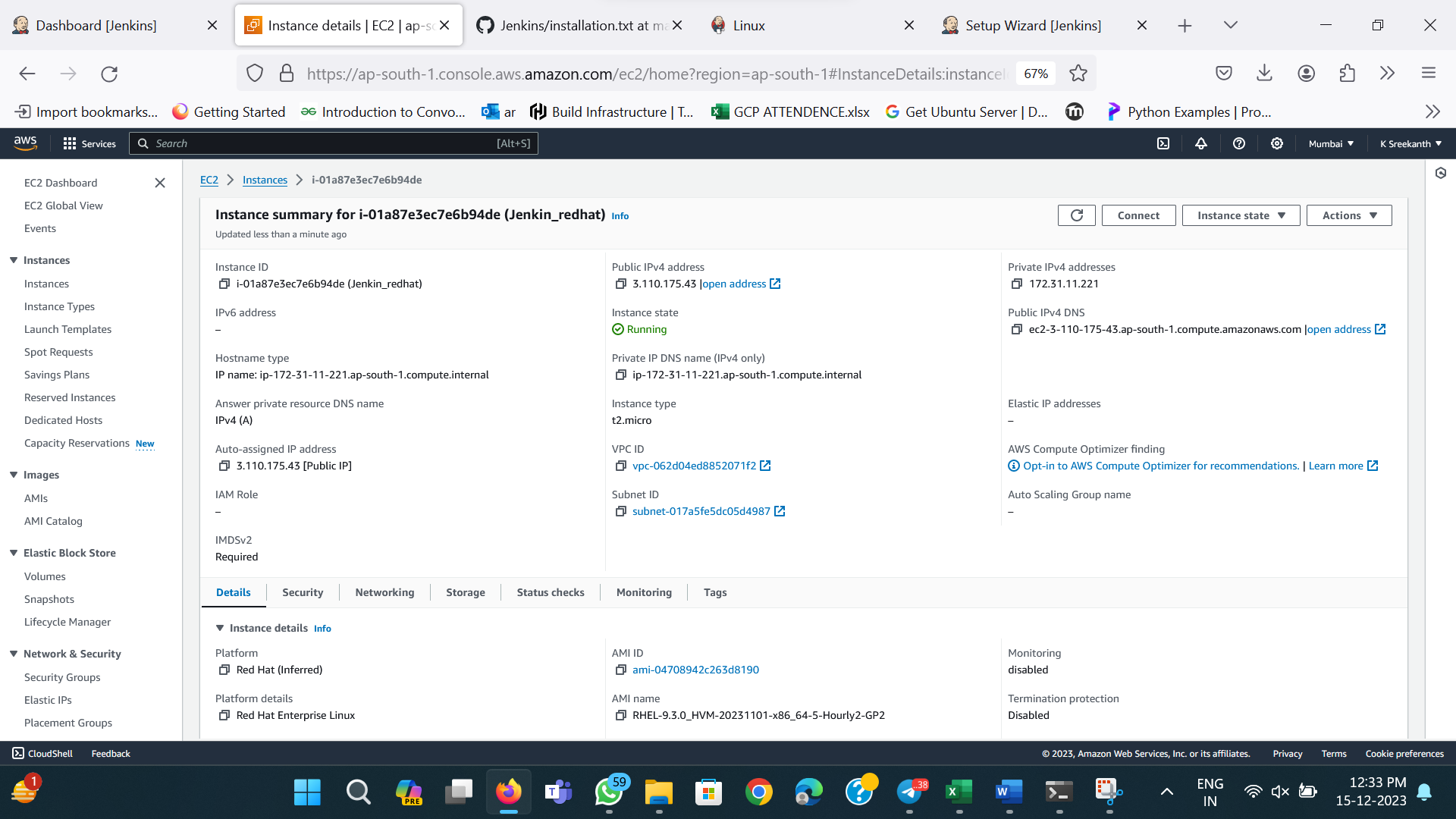
A screenshot of a computer

Description automatically generated

A file will be downloaded as below.

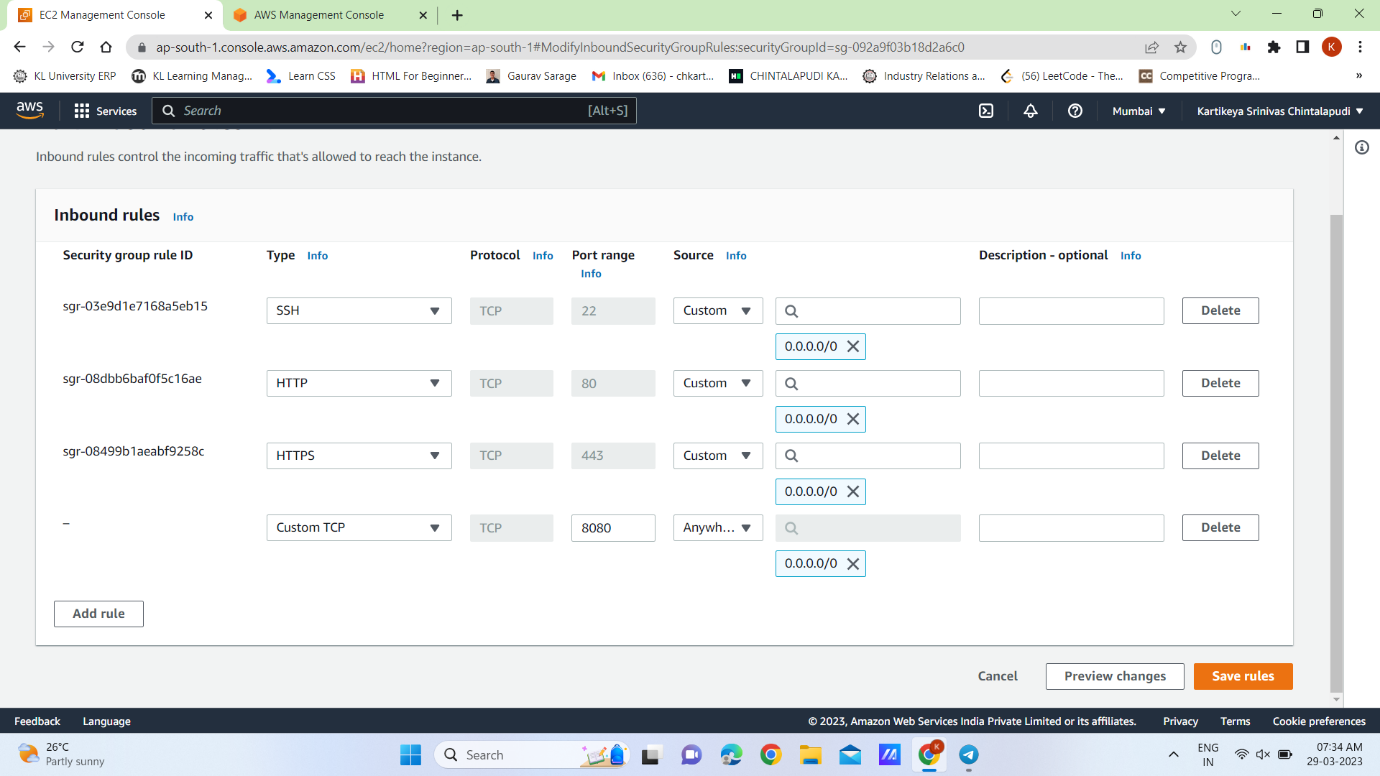


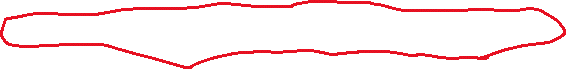
* 1. Once instance comes to the running status.
     1. Click on instance id and then security





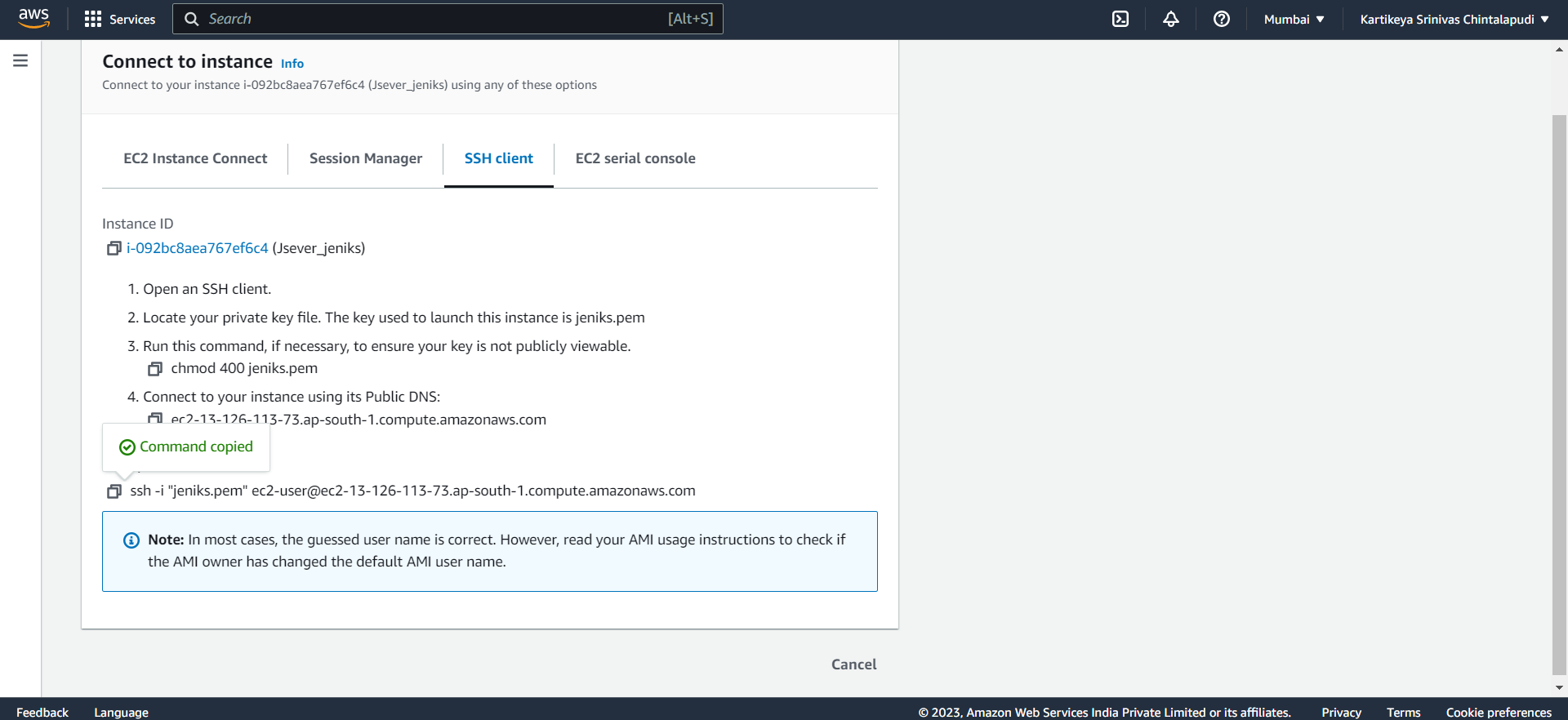
* 1. Set inbound rules under security. Add custom TCp with Port no 8080





1. Connect EC2 from Powershell

Click on connect instance

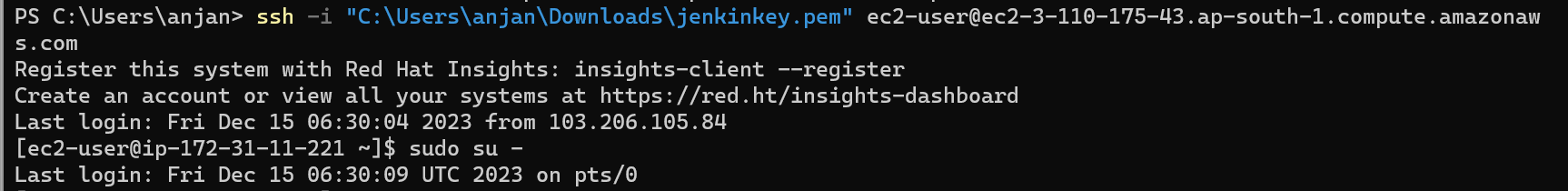




Open powershell

Copy the highlighted command and update **.pem** key file name with your downloaded file path as follows

**ssh -i "C:\Users\anjana\Downloads\jenkinkey.pem"** **ec2-user@ec2-3-110-175-43.ap-south-1.compute.amazonaws.com**

****

**Run the following commands.**

1. Sudo su –
2. yum install wget -y
3. wget -O /etc/yum.repos.d/jenkins.repo \

<https://pkg.jenkins.io/redhat-stable/jenkins.repo>

1. rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
2. yum upgrade
3. yum install fontconfig java-17-openjdk
4. sudo yum install jenkins
5. sudo systemctl daemon-reload
6. systemctl enable Jenkins
7. systemctl start jenkins
8. systemctl status Jenkins

Run Jenkins with following **url** from browser: http://<public-ip>:8080

Graphical user interface, application

Description automatically generated

Graphical user interface, text

Description automatically generated

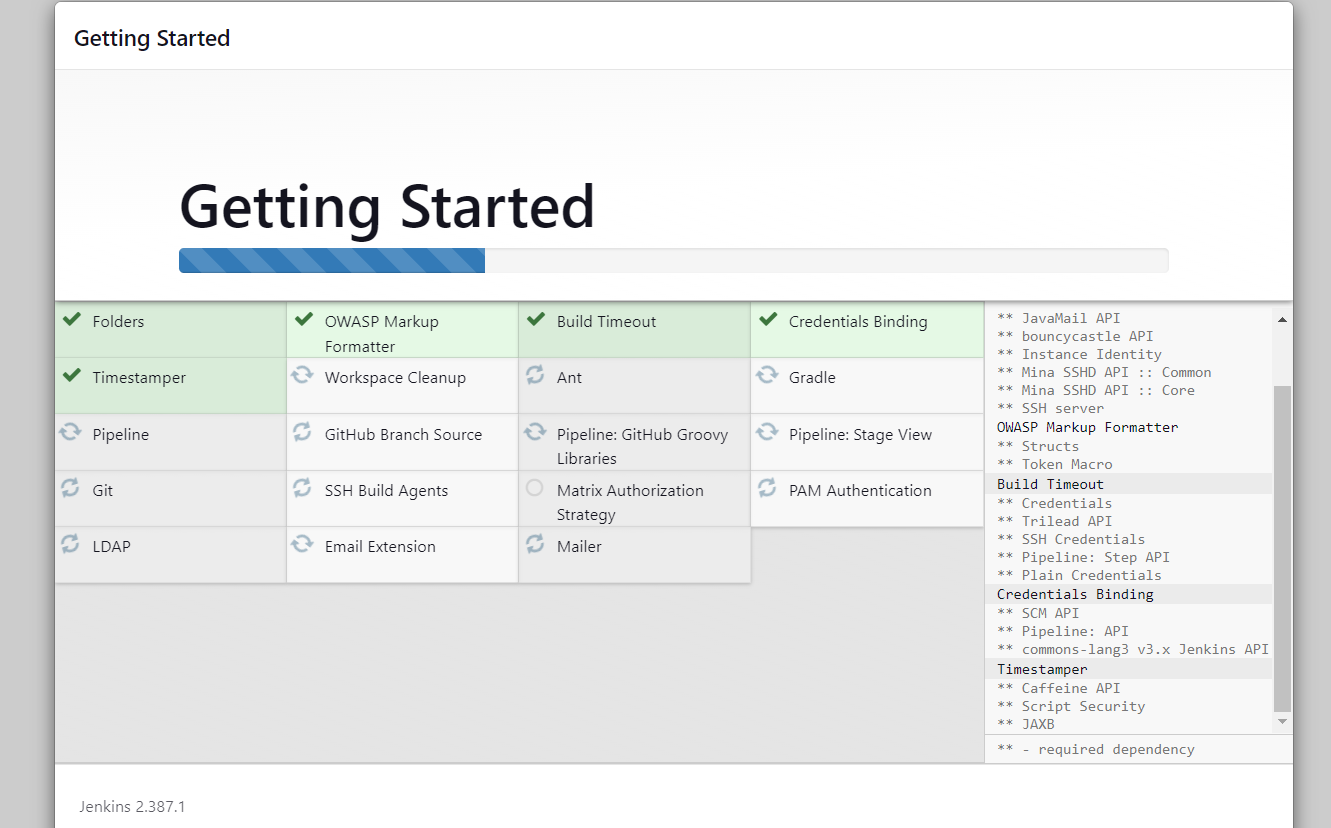
sudo cat /var/lib/jenkins/secrets/initialAdminPassword

Then copy the password and paste in admintrator

Graphical user interface, text

Description automatically generated

Then select install suggested plugins



Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

A screenshot of a computer

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

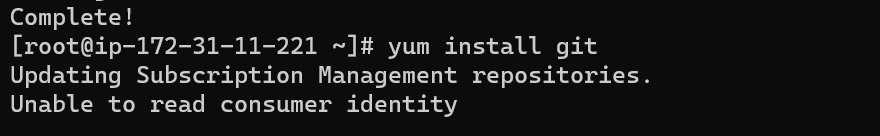
Graphical user interface, text, application

Description automatically generated

**To integrate git with Jenkins**

**Install git on Jenkins Server using following command**

yum install git



Follow steps as given in the below webpage

https://www.blazemeter.com/blog/how-to-integrate-your-github-repository-to-your-jenkins-project