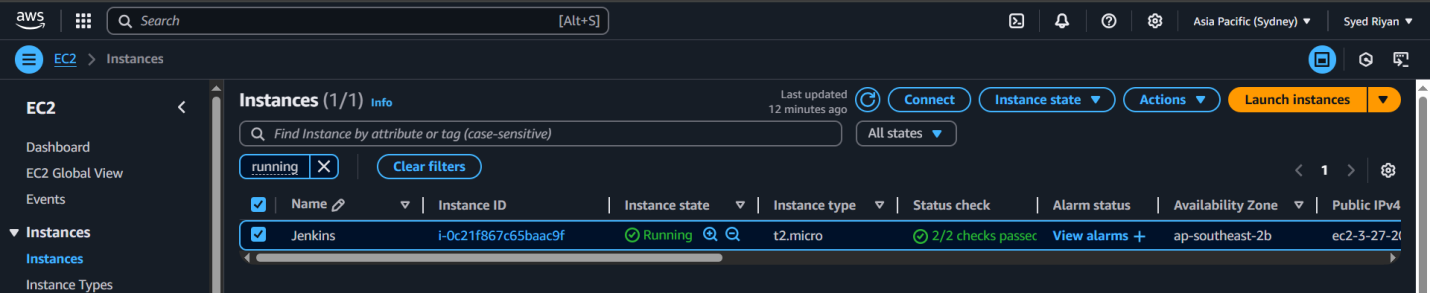
Jenkins task for Day-01

1. Install jenkins and run jenkins on port number 8081.

# **First create an EC2 instance, and install jave in it**



**sudo yum install -y java-17-amazon-corretto**

Now copy the repos using the command:

**Sudo wget -O /etc/yum.repos.d/jenkins.repo \**

[**https://pkg.jenkins.io/redhat-stable/jenkins.repo**](https://pkg.jenkins.io/redhat-stable/jenkins.repo)

Now import the key using the command:

**sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key**

Now install Jenkins: **sudo yum install Jenkins**

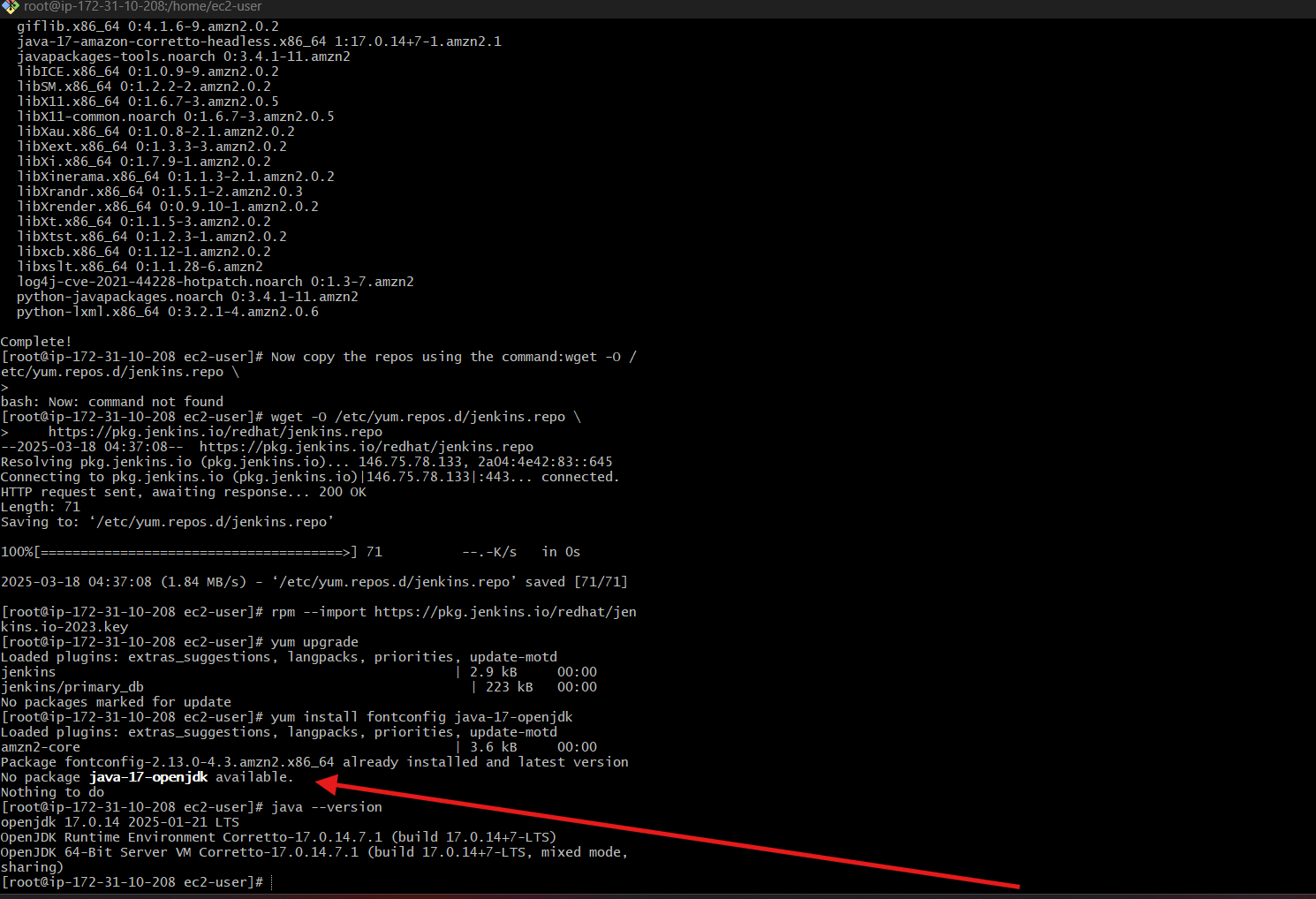
Now reload the daemon, enable, start and check status using the commands:

**sudosystemctl daemon-reload**

**sudosystemctl enable Jenkins**

**sudosystemctl start Jenkins**

**sudosystemctl status Jenkins**



Now install Jenkins: **sudo yum install Jenkins**

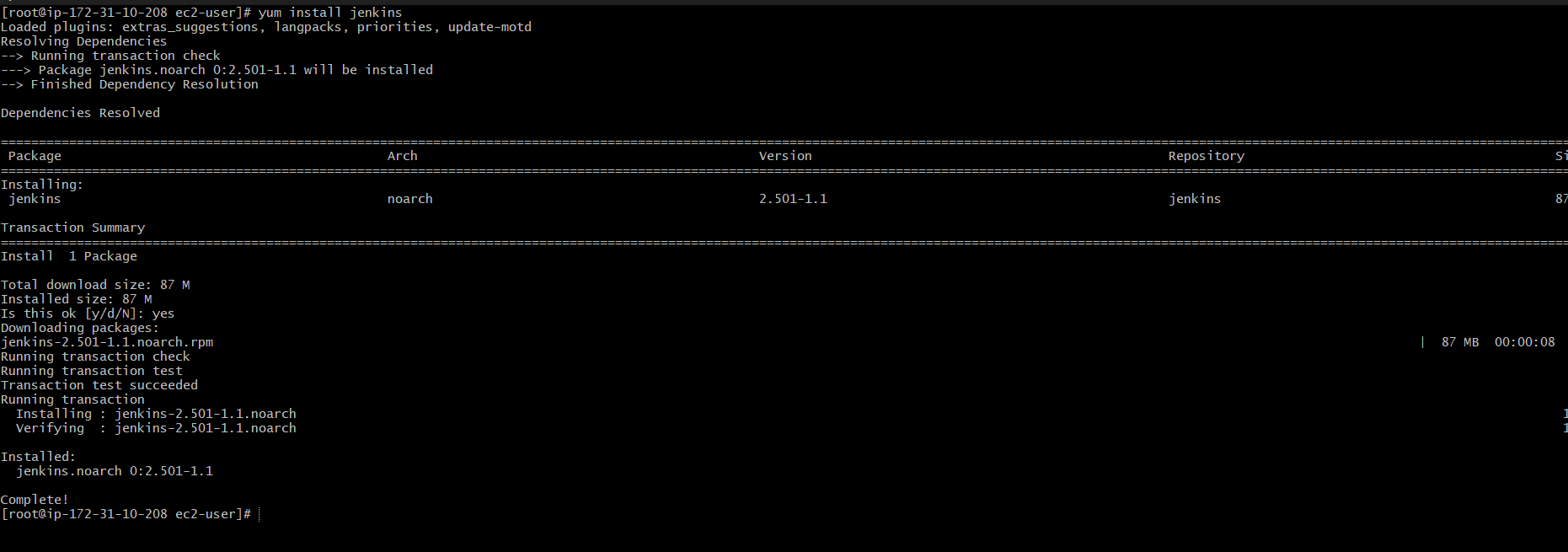
Now reload the daemon, enable, start and check status using the commands:

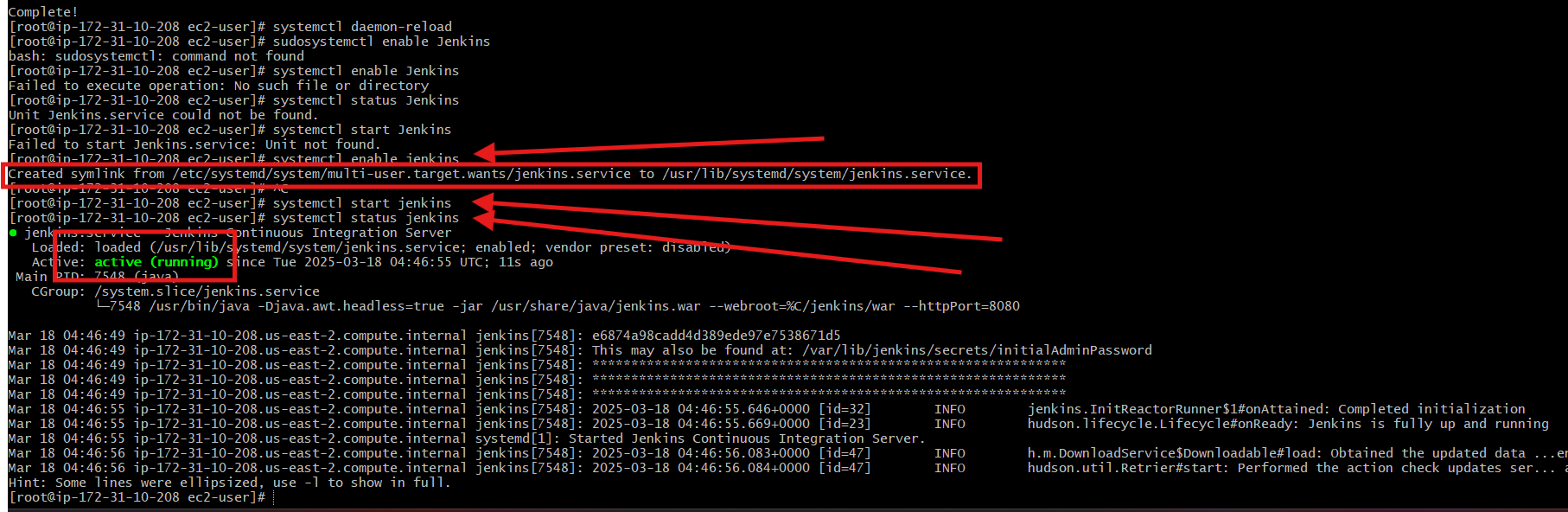
**sudosystemctl daemon-reload**

**sudosystemctl enable Jenkins**

**sudosystemctl start Jenkins**

**sudosystemctl status Jenkins**



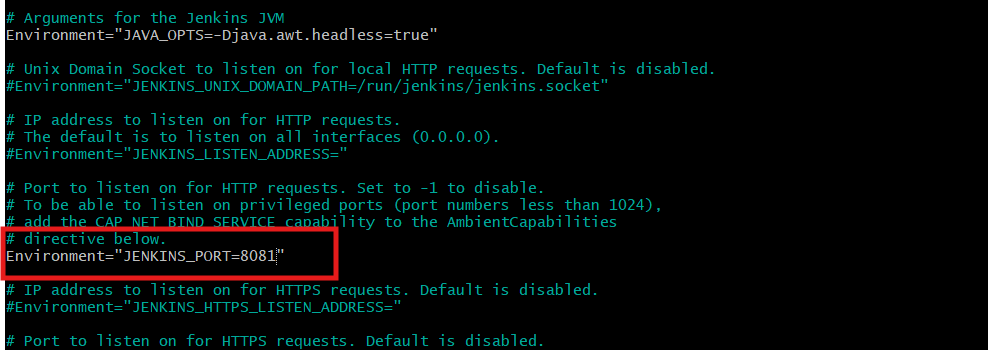


Now open the jenskins.service file

**sudo vi /lib/systemd/system/jenkins.service**

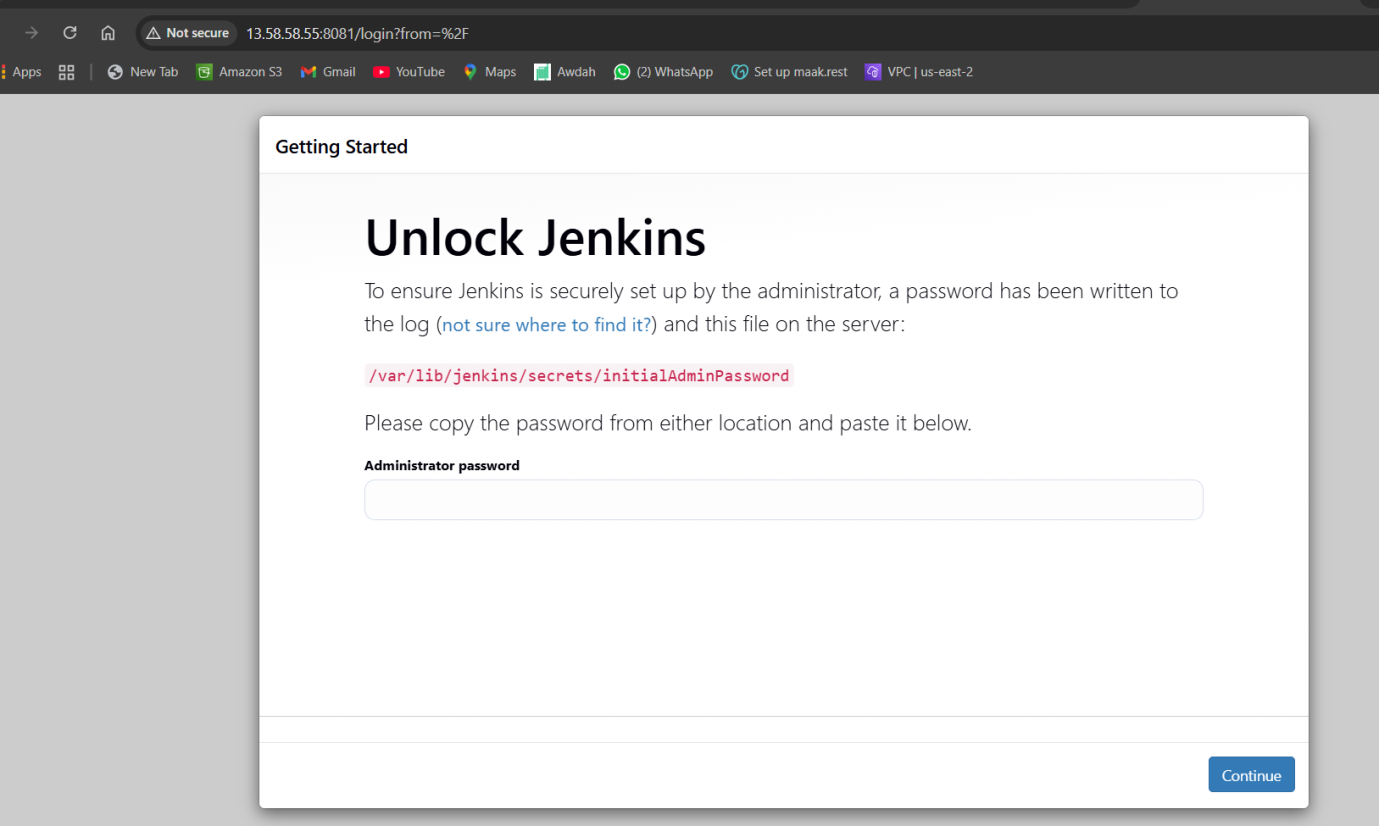
Add a line –httpport=8081

Also change in the Environmental line



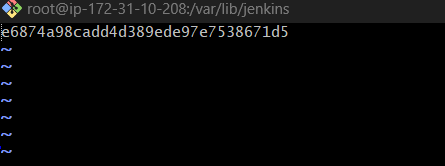
Now reload the daemon, restart Jenkins

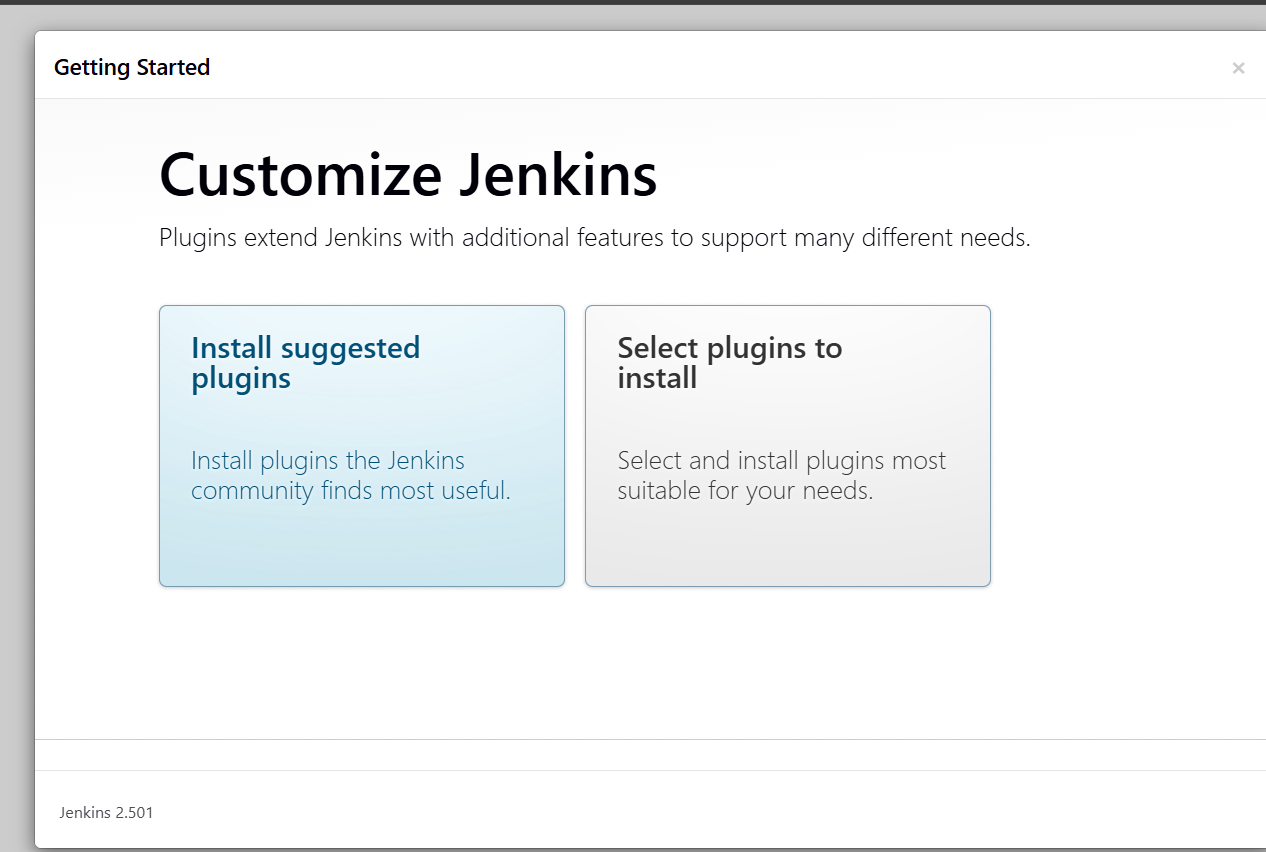
Go to browser and copy paste the public ip of ec2 and portno 8081 : hit enter

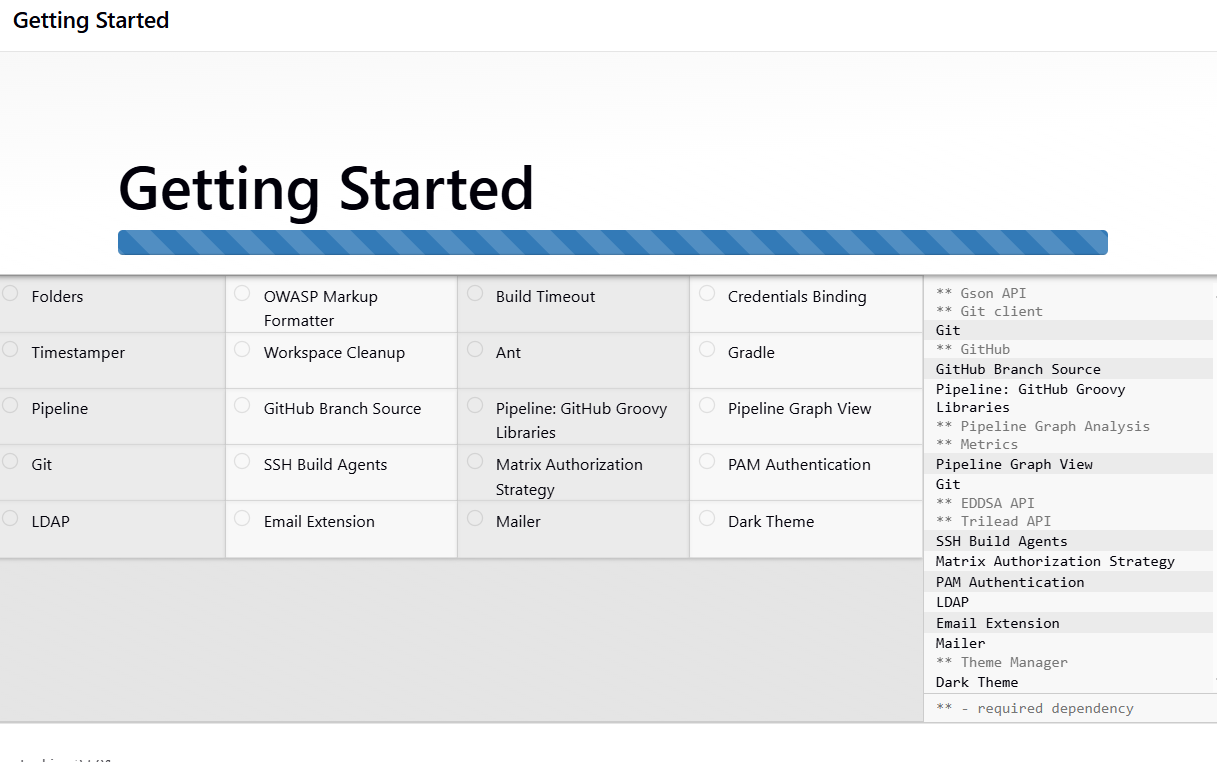


Go to loction below location to change the password , copy and paste in browser

Cat /var/lib/jenkins/secrets/initialAdminPassword





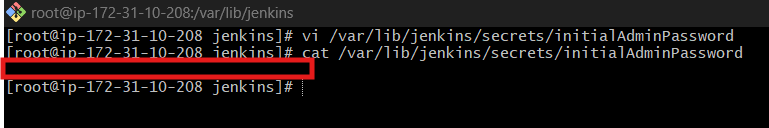


1. Secure Jenkins server

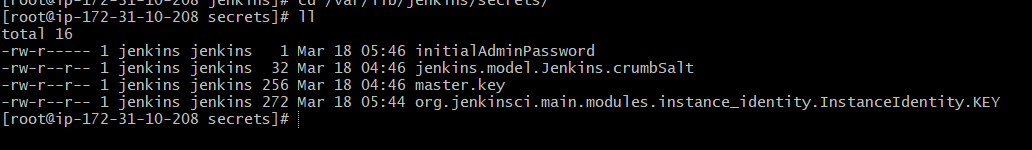
To secure first we need to copy the InitialAdminPassword

Cat /var/lib/jenkins/secrets/initialAdminPassword

cbf5b87543a64d4d9e28a62ec5a26957



Now password has been deleted to make it seceure

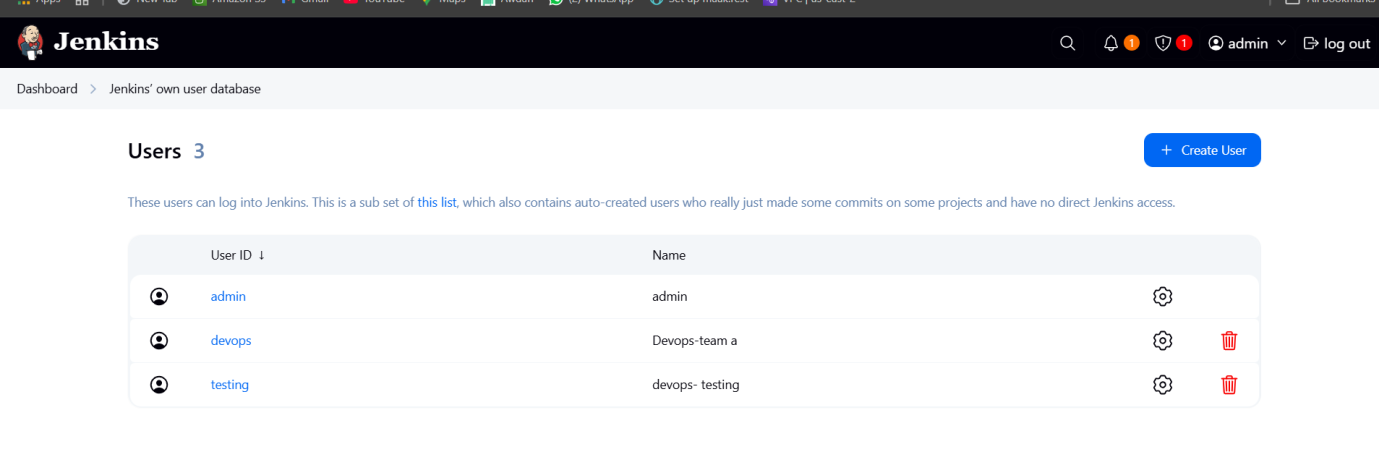


1. Create users called Devops, Testing in Jenkins with Limited access.

First we are creating 2 users called Devips and Testing

Go to Manage Jenkins🡪users🡪create user

Provide the details



Login as admin user and password

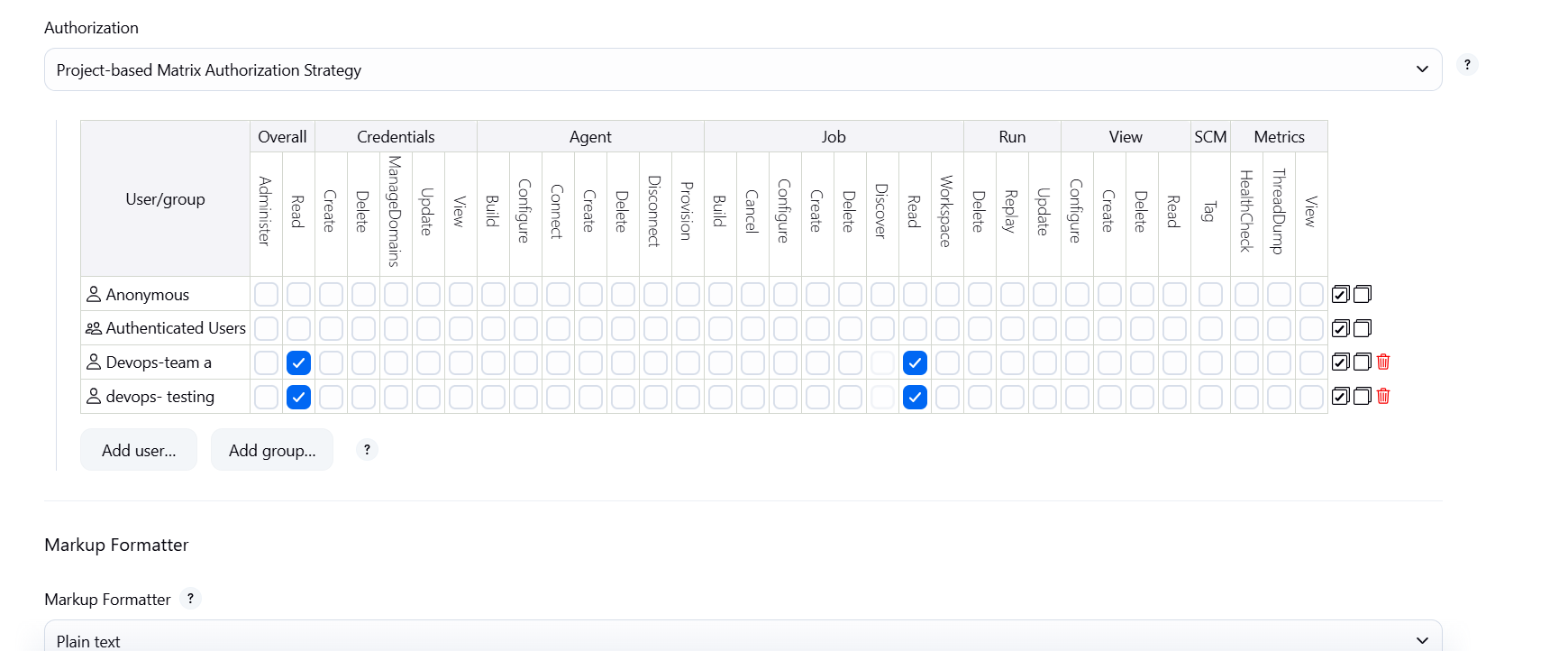
To give limited access to the users

Go to Manage Jenkins🡪Security🡪under **Authorization**

Select **Project-based matrix authorization strategy**

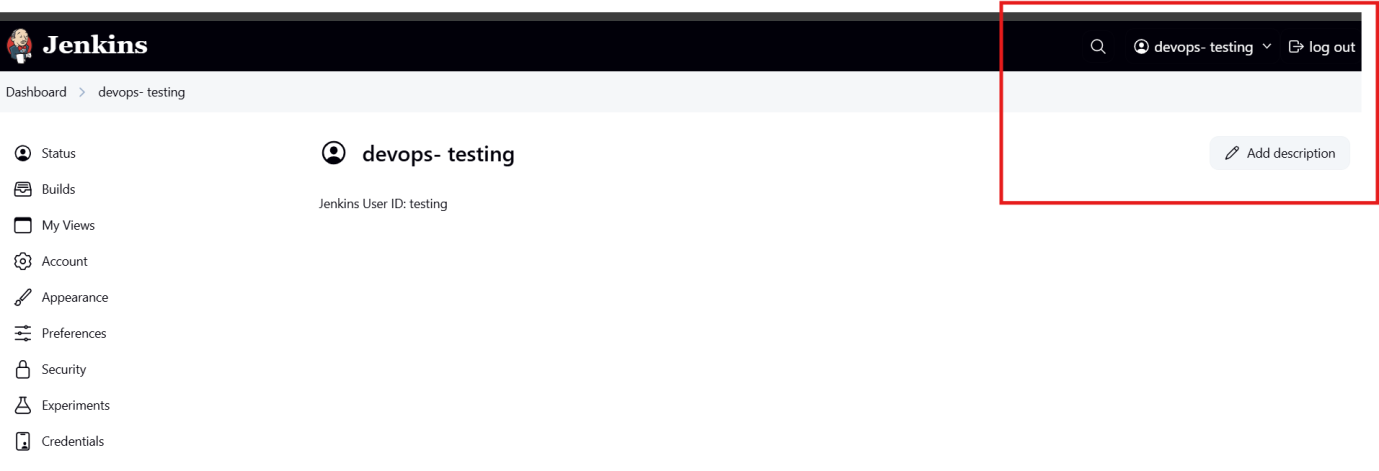
**Add user id name for both to add in means ,name of the user**

Add the users Devops and Testing and mark the boxes with limited access and click on save



Login from 1st user devops

login from 2nd user testing

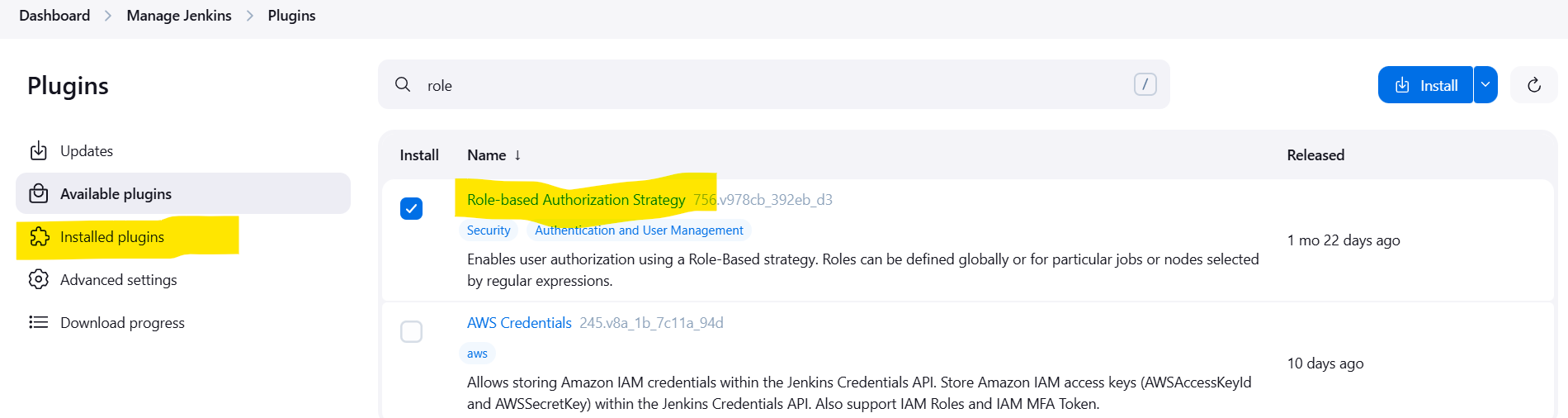
` 

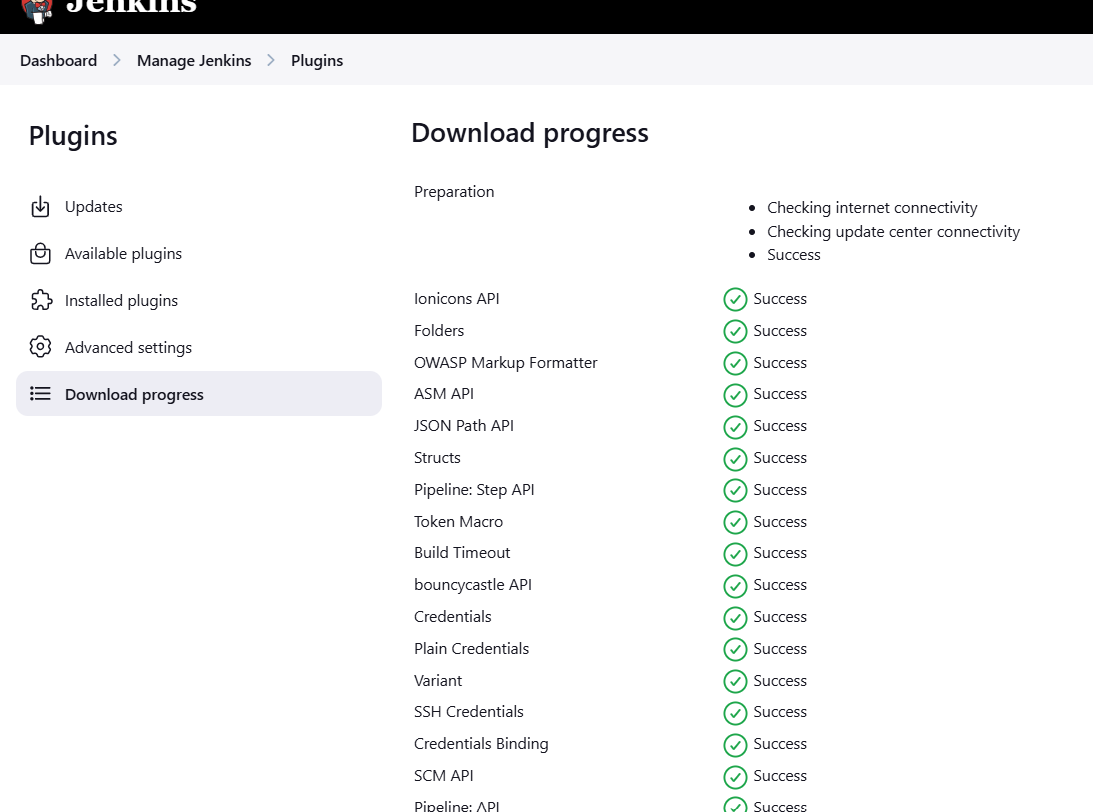
1. Configure labels and restrict the jobs to execute based on label only.

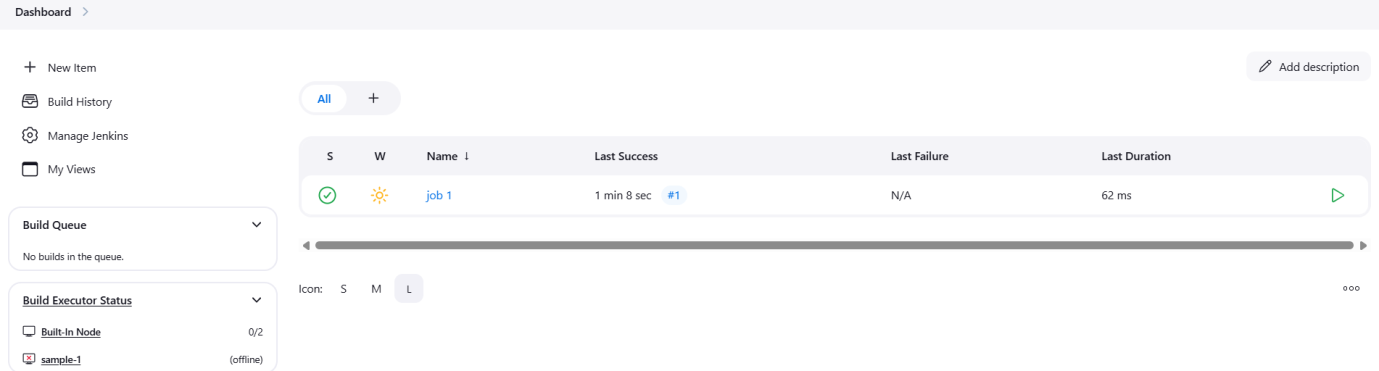
To create label

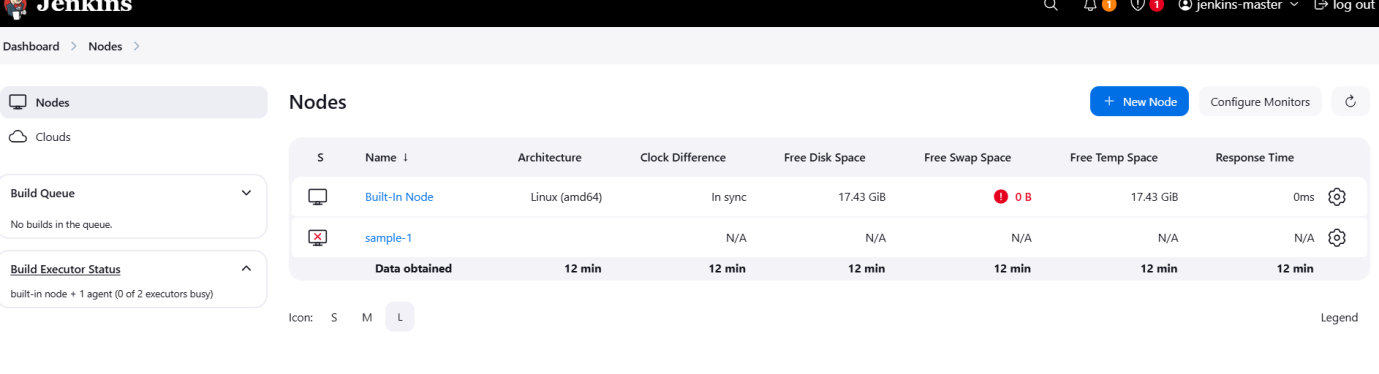
First install plugins, to install plugin go to Manage Jenkins🡪plugins🡪

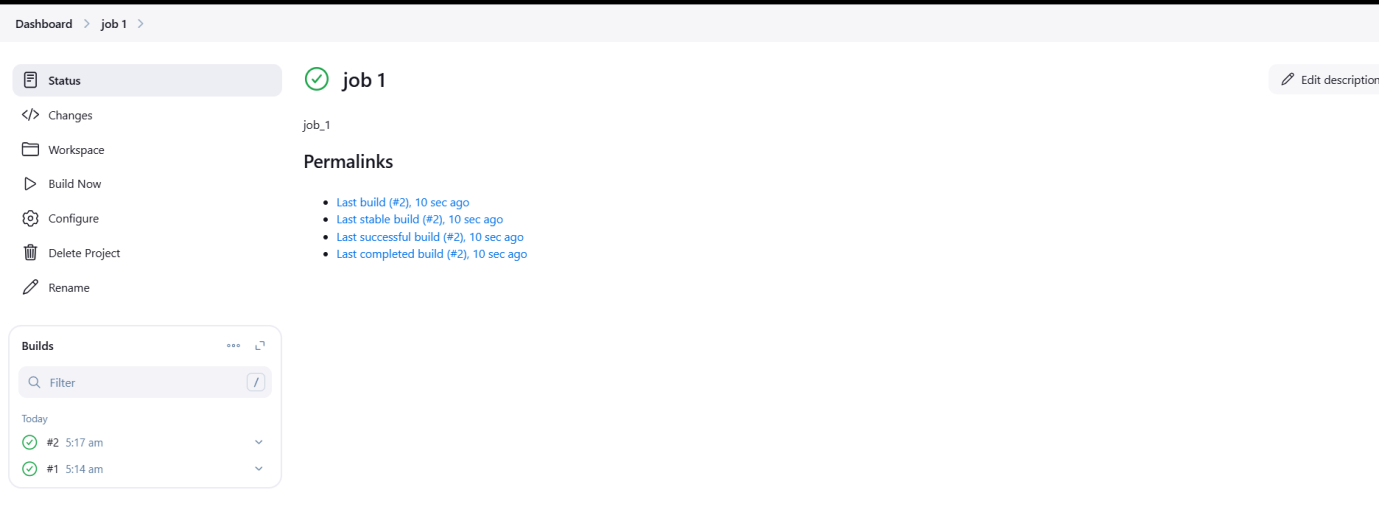
Search for **Node and Label parameter,** install the plugin role –based authorization strategy





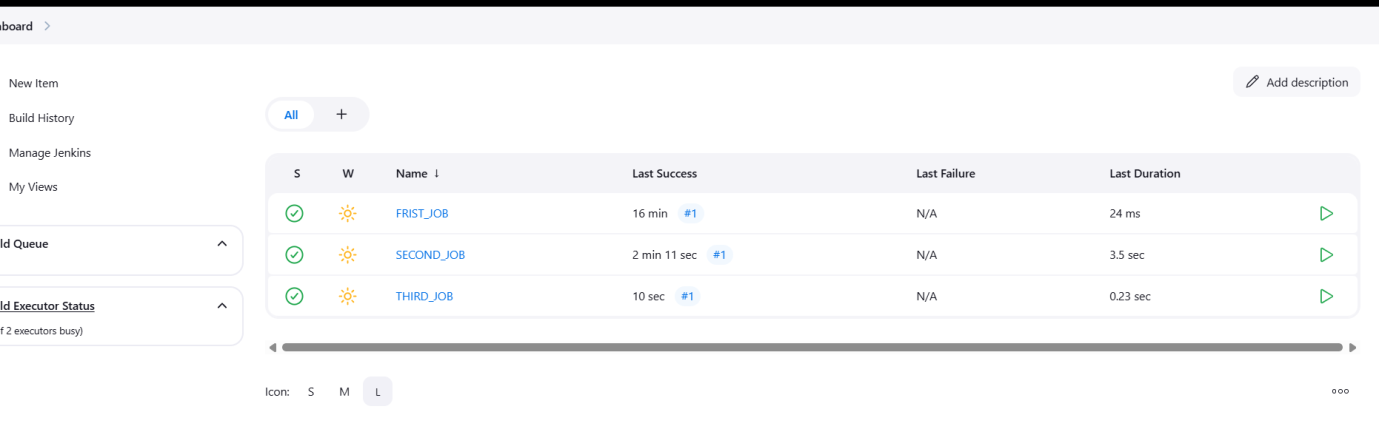


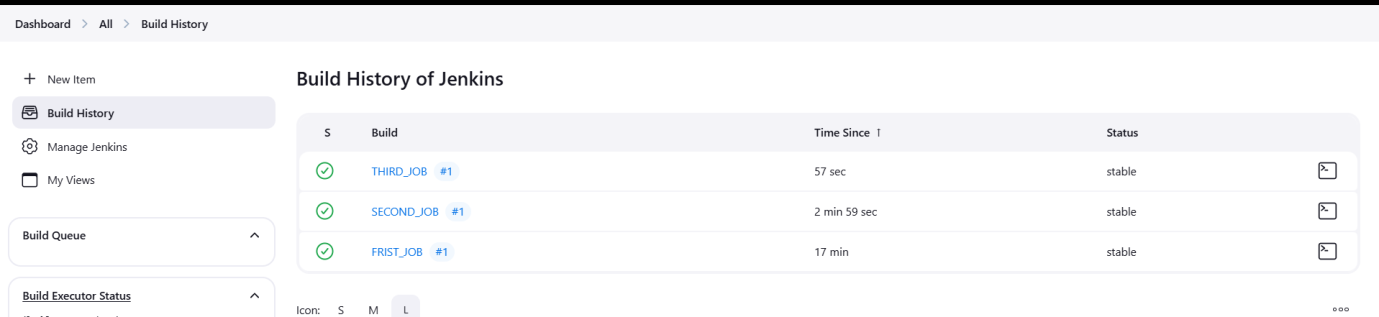


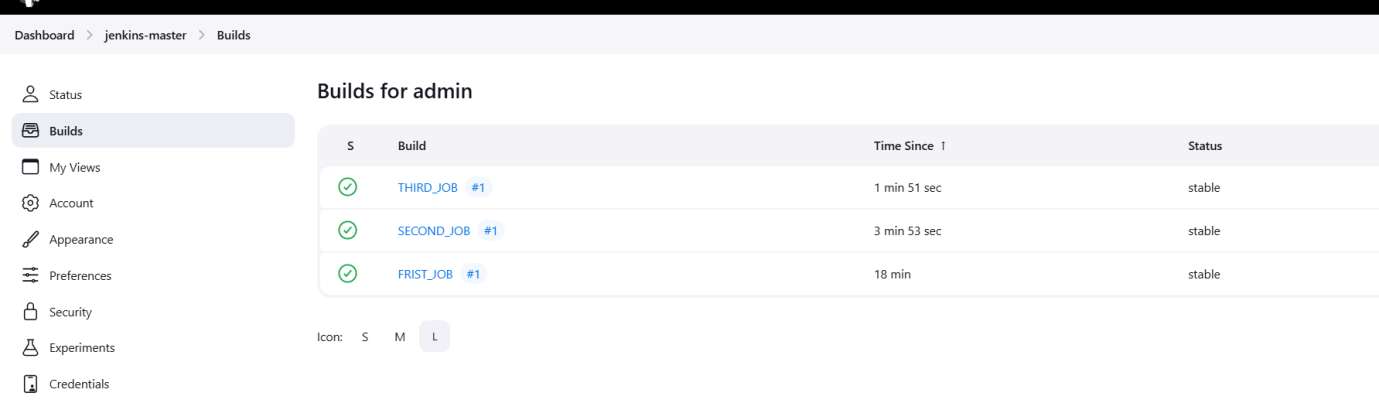


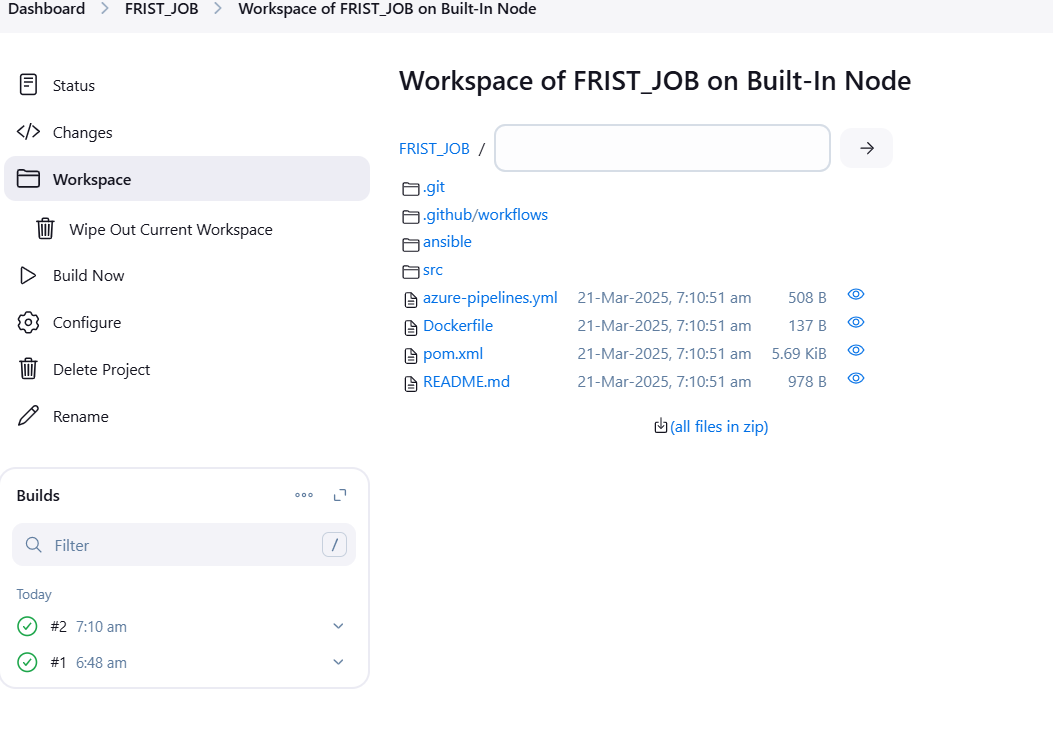
5) Create Three sample jobs using the below URL.

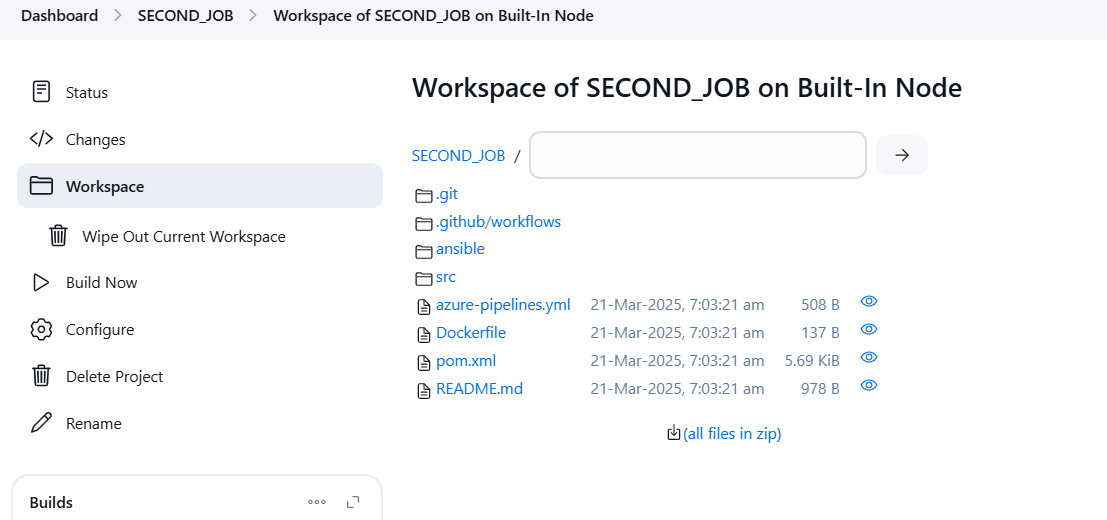
<https://github.com/betawins/Techie_horizon_Login_app.git>

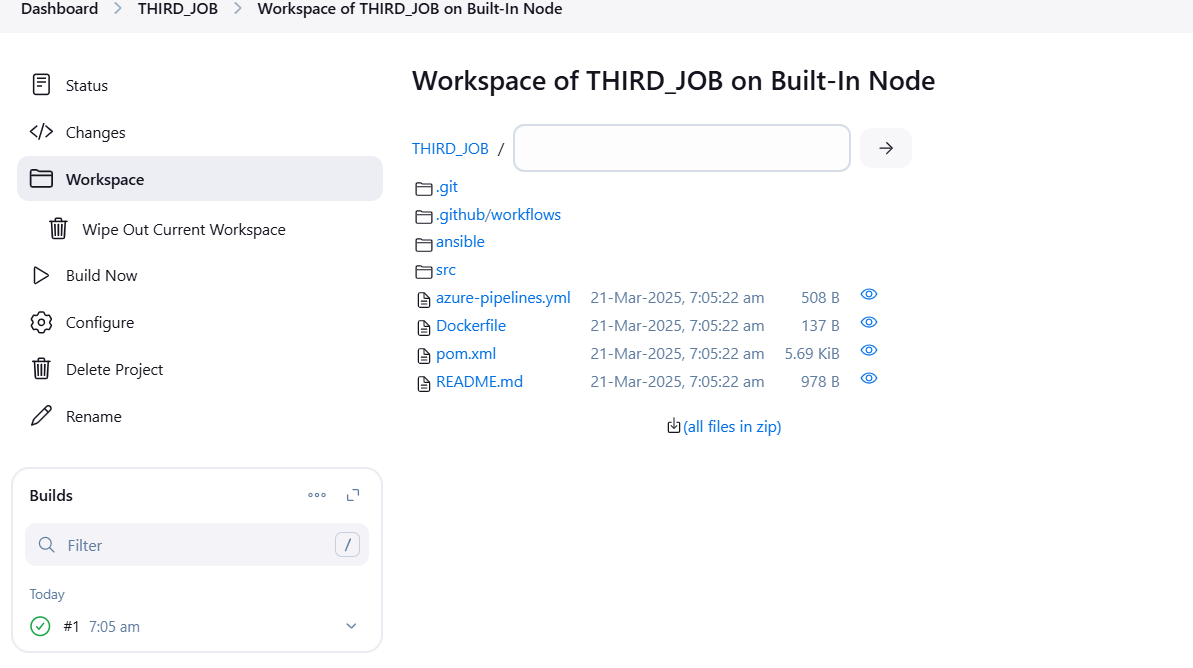






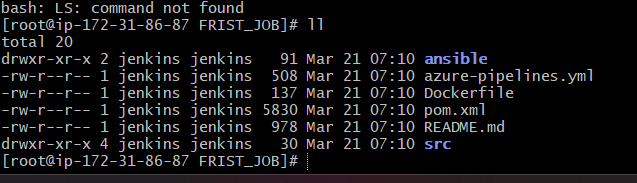


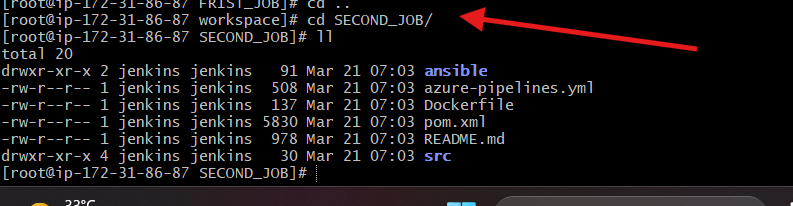


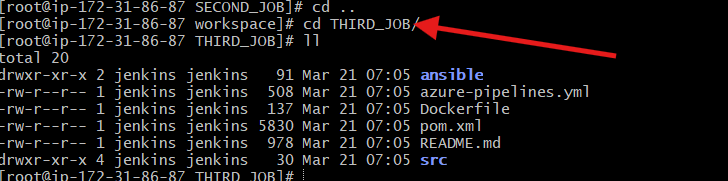
****

**CHECK FROM JENKINS GUI SERVERS**

**List from first \_ job . clone all the list of directories from git**

****

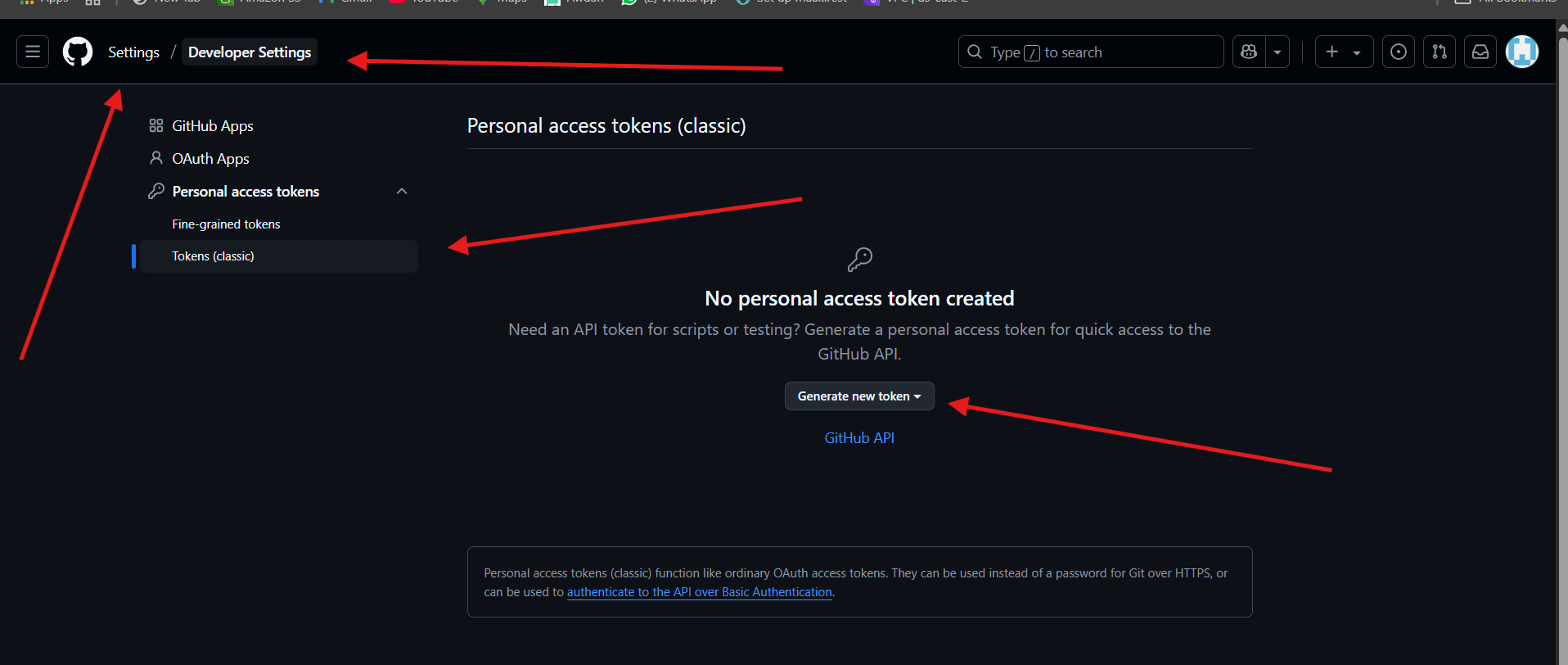
****

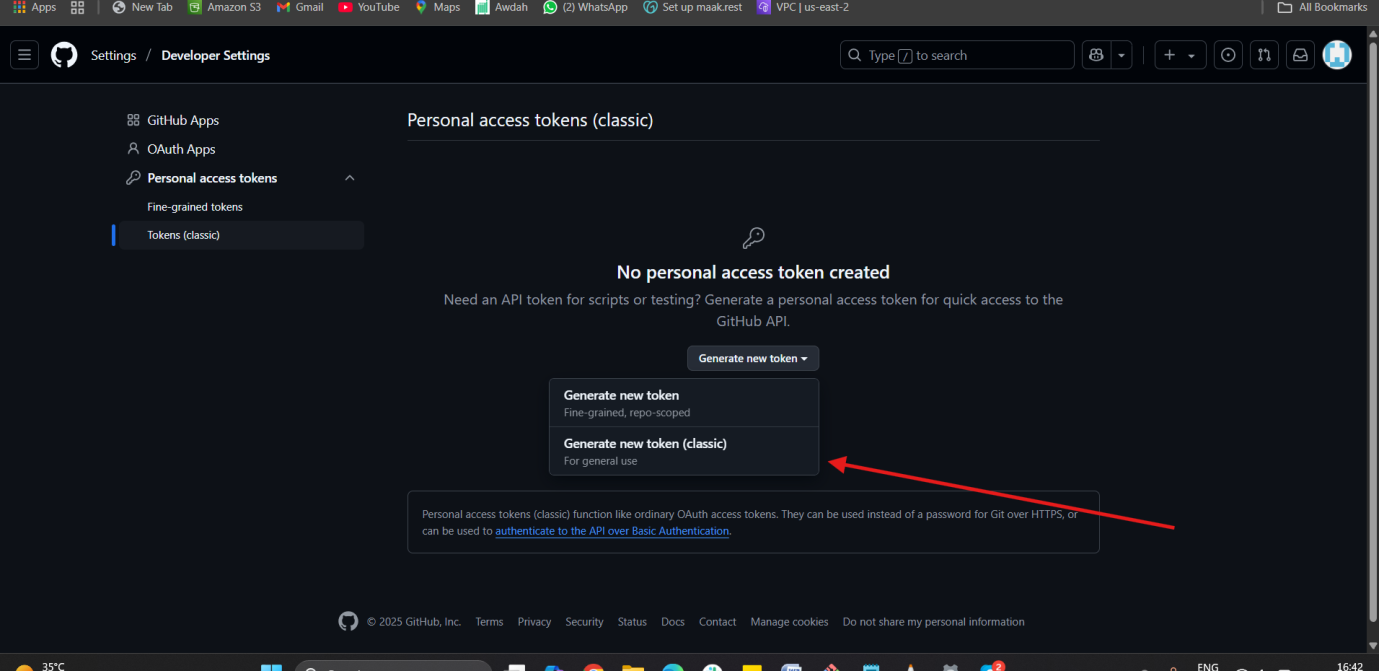
****

1. Create one jenkins job using git hub Private repository.

**Need to create a private repo in github and generate a token in github**

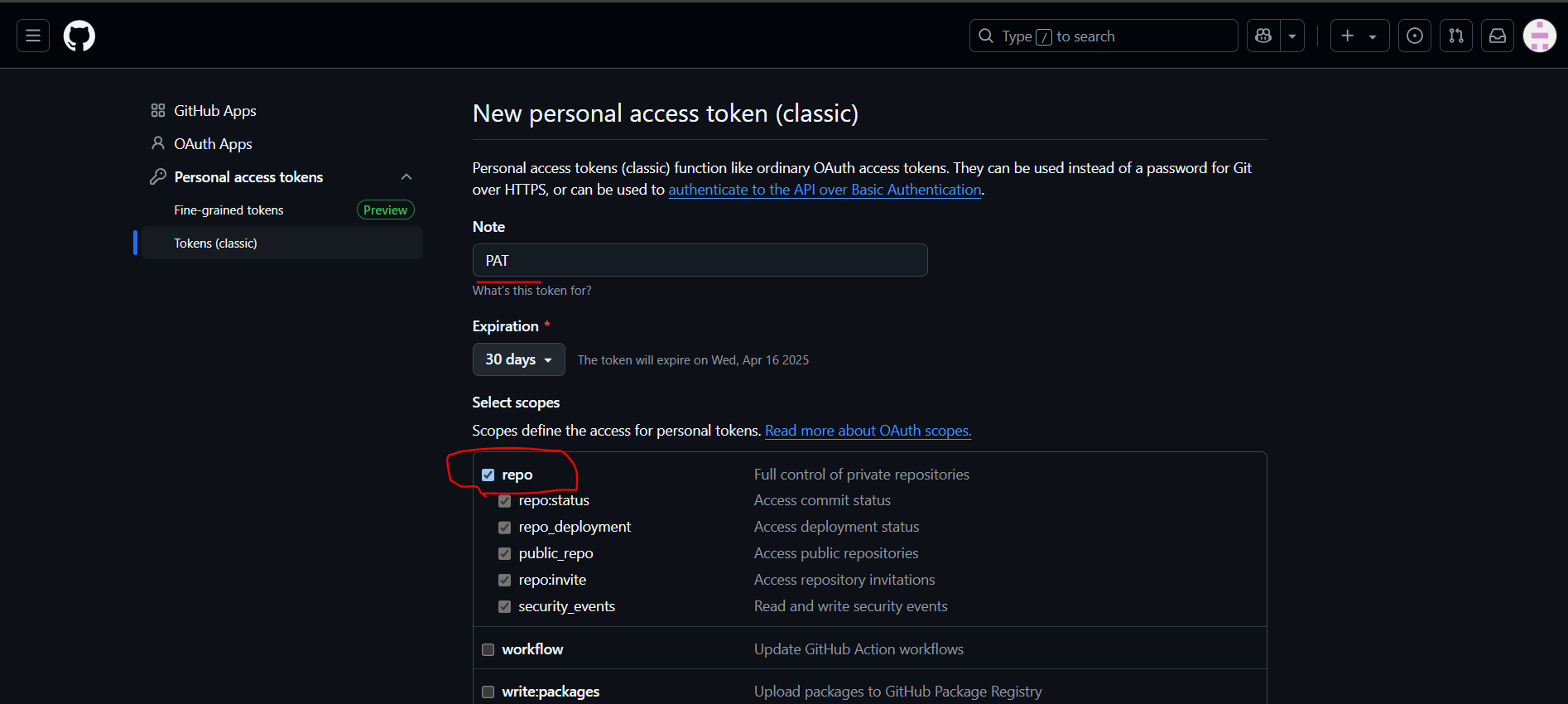
**Github🡪setting🡪developer setting🡪generate token**



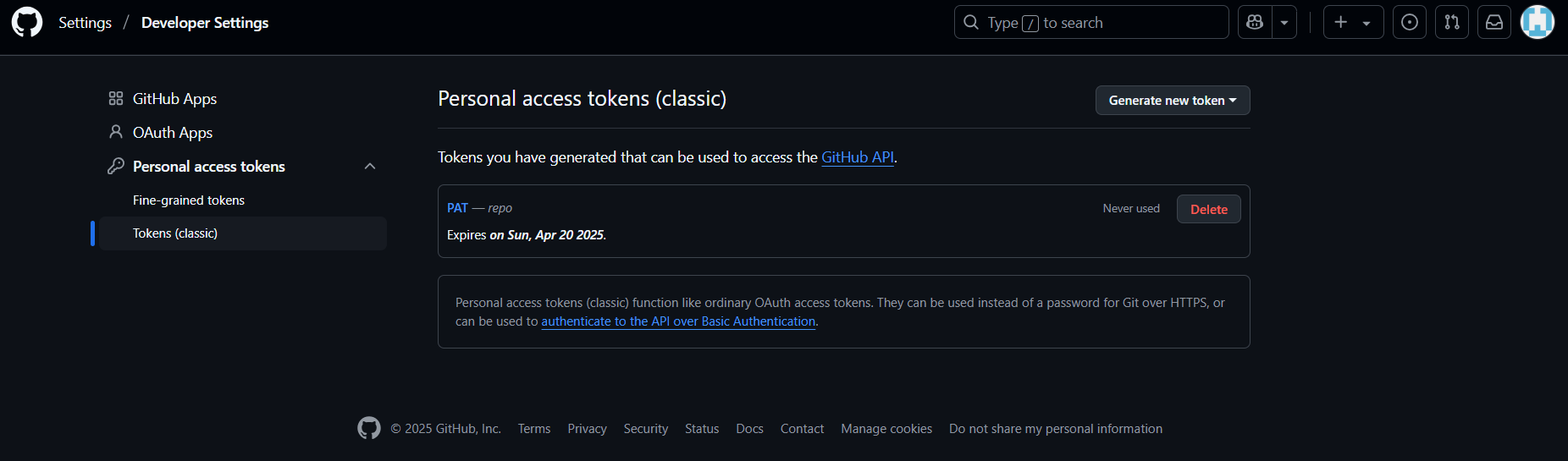


First create Personal Access Token

Go to github🡪 settings 🡪 Developer settings 🡪Token (classic) 🡪 Generate new token 🡪Generate new token (classic)



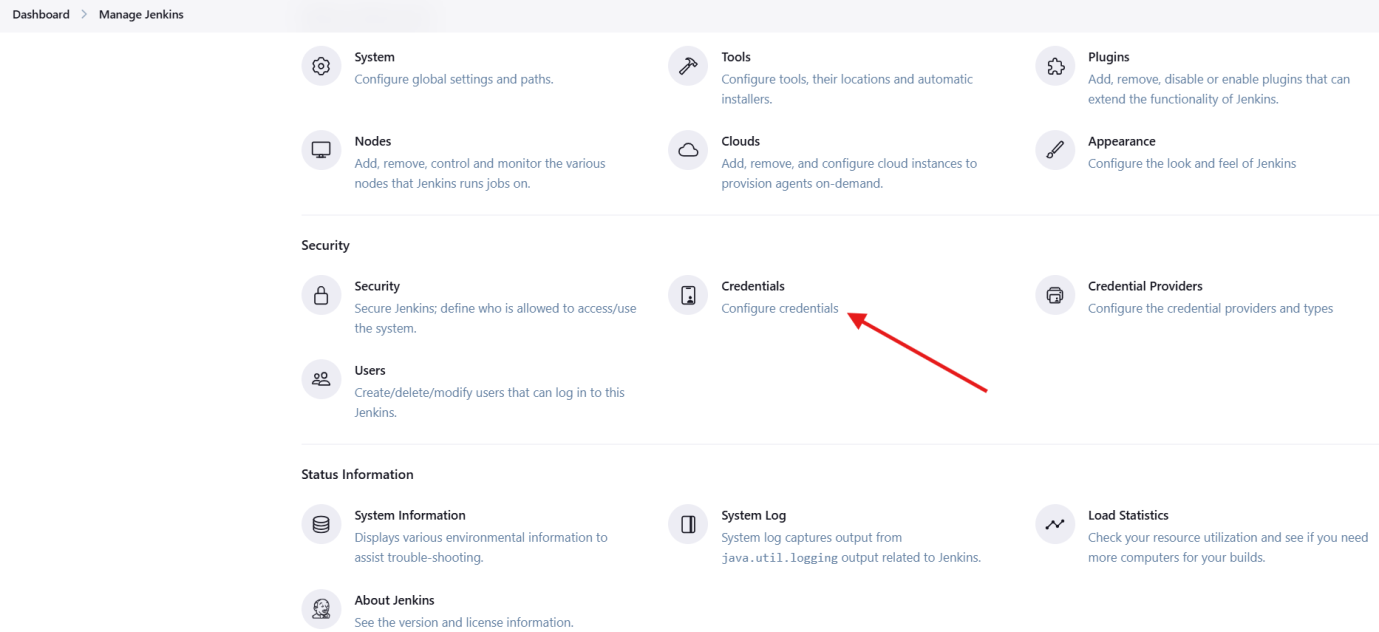
Scroll below and click on Generate Token



Now go to Jenkins server

Click on Dashboard → Click Manage Jenkins.

Click Manage Credentials → Select (global).



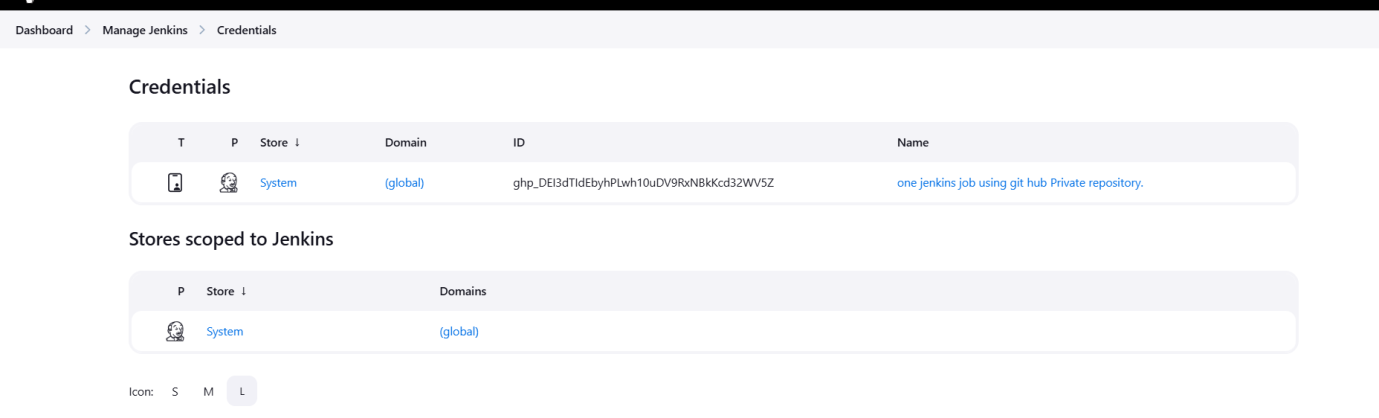
Click Add Credentials → Choose Username and Password.

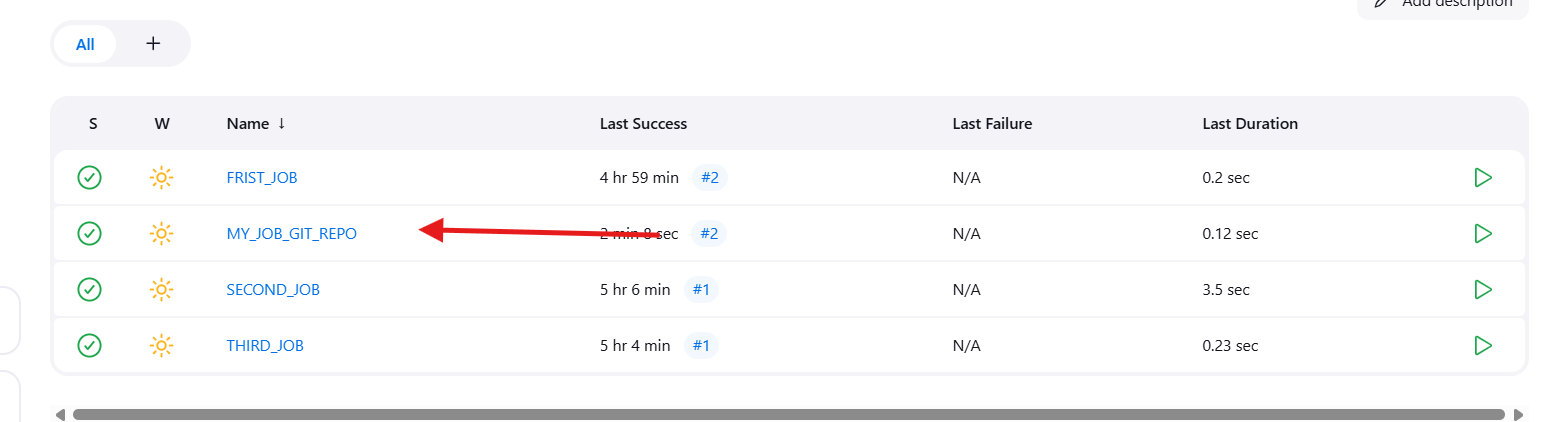
Enter:

Username: MAAK21

Password: 08Q81A0521

Click on save.





Now click on Build Now

Now check in Github and in Jenkins EC2 server the files of Github would have been downloaded

