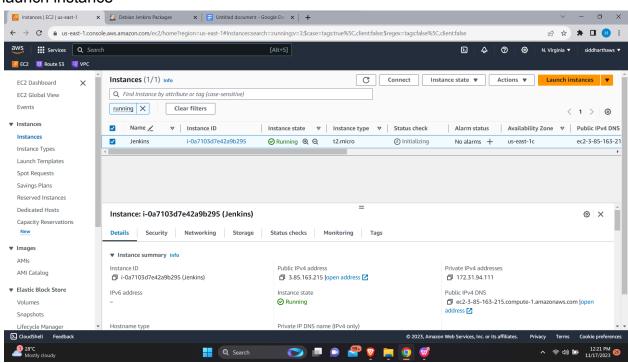
## **JENKINS**

#### **Definition:**

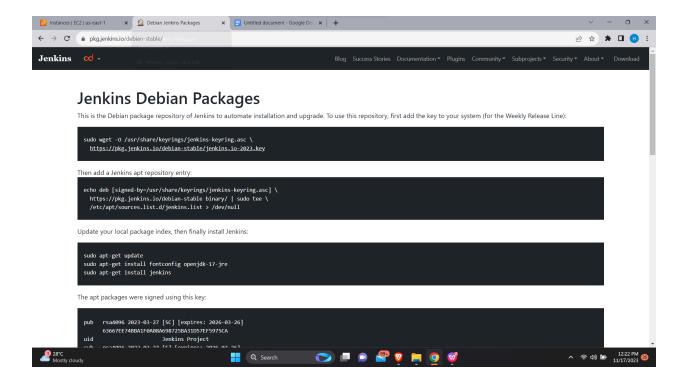
Jenkins is an open source continuous integration/continuous delivery and deployment (CI/CD) automation software DevOps tool written in the Java programming language. It is used to implement CI/CD workflows, called pipelines.

# JENKINS INSTALLATION STEPS

Create an ec2 instance - Ubuntu 20.04 - t2.micro - keyfile - Security group(all traffic) - launch instance



Connect to the ec2 instance through putty Search jenkins.io in browser Copy & paste the jenkins packages in the server

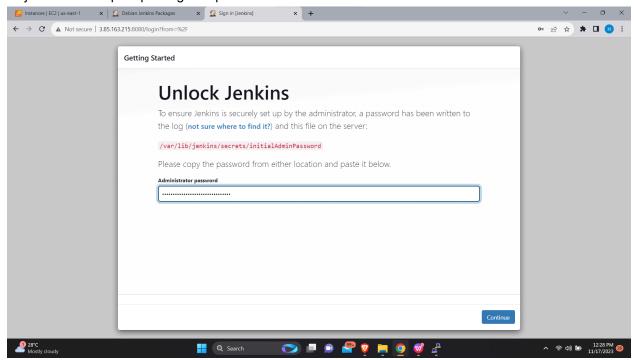


After Successfully installed jenkins.

To check the jenkins portnumber to connect the jenkins dashboard in webserver #ps -ef | grep jenkins



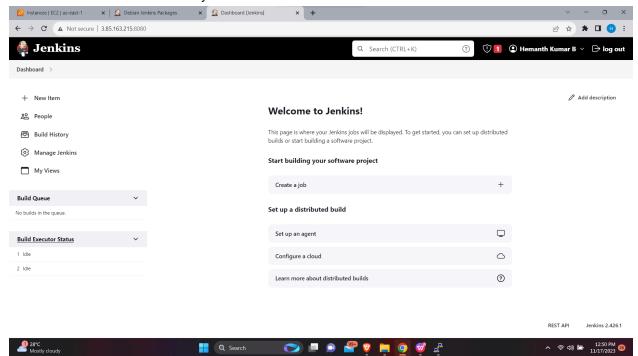
Hit jenkins server pub-ip along with port number in browser



Copy the password from above path using #cat command

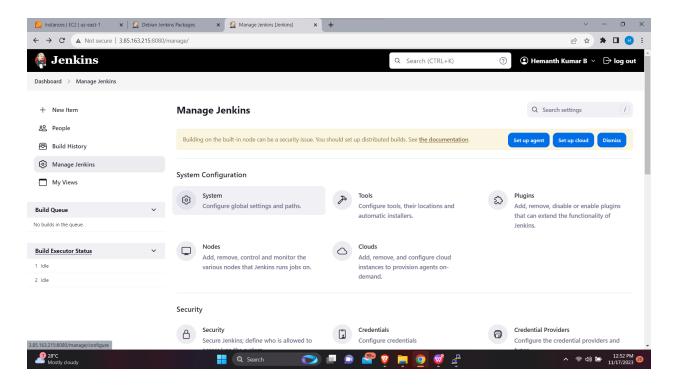
 $ubuntu@ip-172-31-94-111: \sim \$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword d6b6b7190de94a69a9fd6c003a640a01$ 

Enter the first Admin User Credentials - Save and Continue Jenkins dashboard is successfully hosted

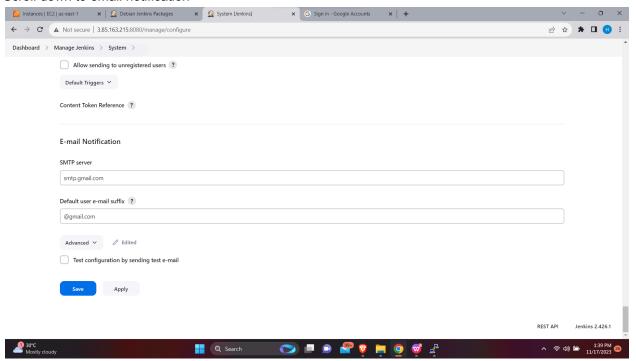


### STEPS TO CONFIGURE EMAIL NOTIFICATION

In jenkins dashboard, go to Manage Jenkins - System

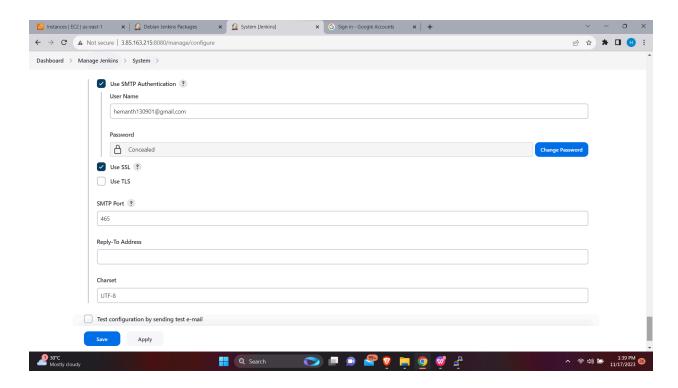


#### Scroll down to email notification

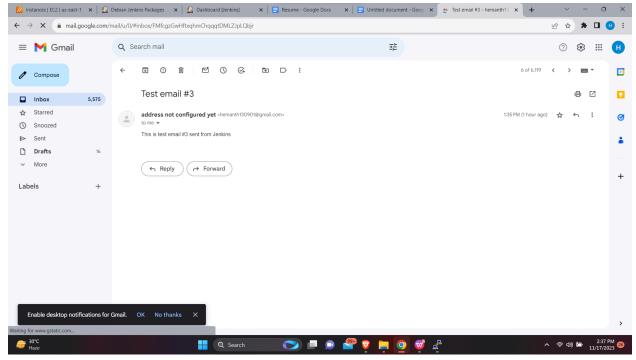


In google account, go to manage your account - security - 2 step verification - get password - create password

Then click advanced and configure recipient's email



#### Click test configuration

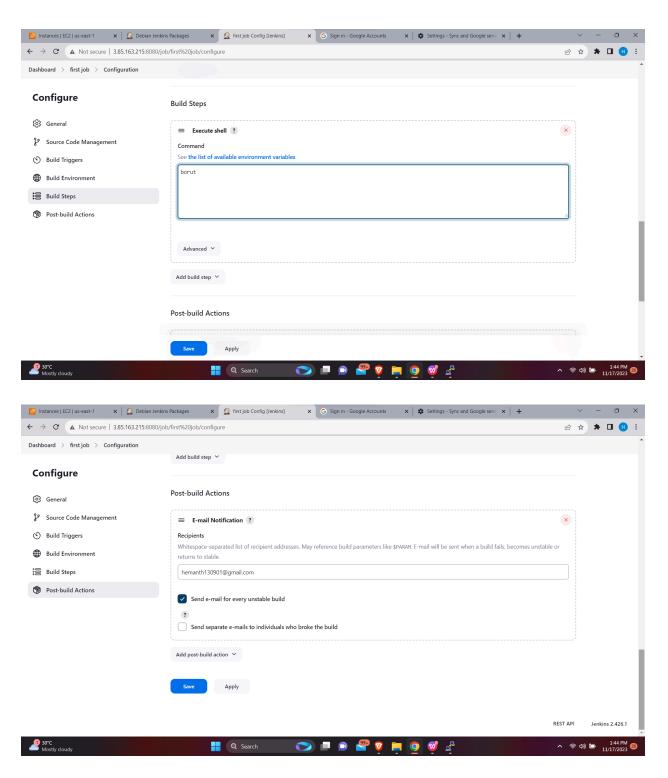


Successfully Configured Email Notification in Jenkins Dashboard.

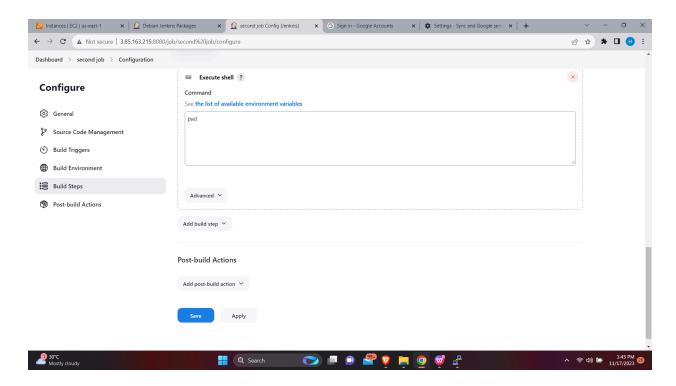
Now create 2 jobs and add configured email to get notification is the job fails.

#### Create a job(first job)

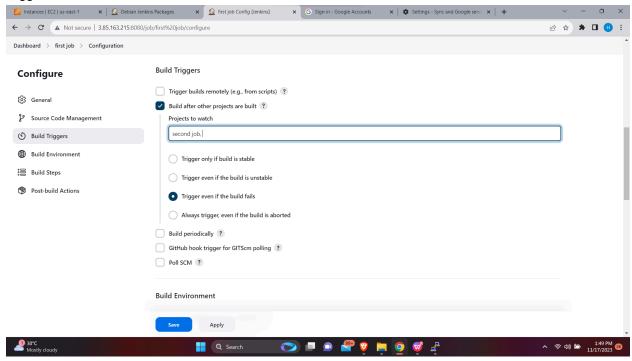
In configure - Build Steps - choose execute shell - enter Wrong command to ensure the email notification works properly if the job gets failed - In Post build Action - Enter already configured Email-ID - Save.



Create another job - Set a job name (SecondJob) - Freestyle project - Ok.
In configure - Build Steps - Choose Execute Shell - Enter working command in ubuntu server Eg: pwd - Save.

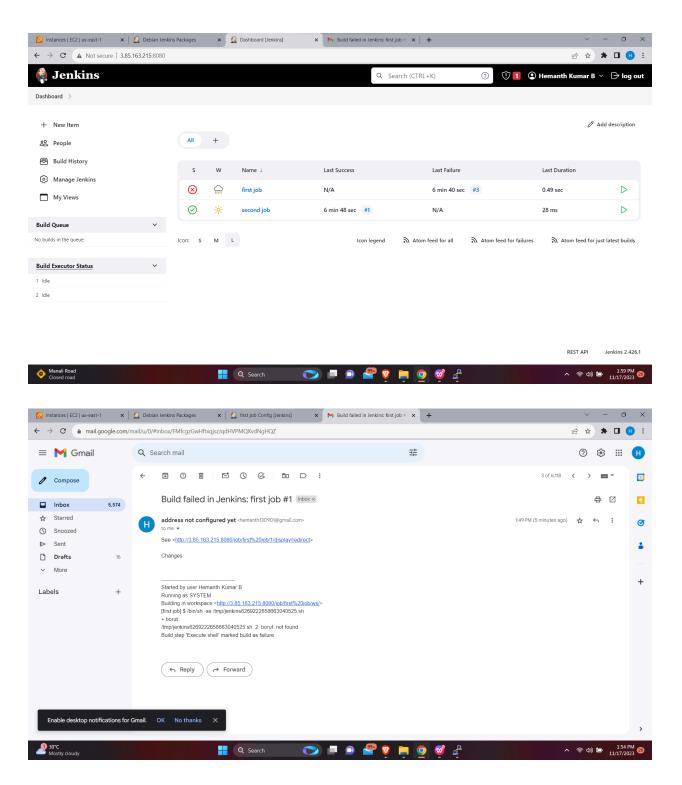


In configure - build triggers - Choose build other projects - Enter the Second job name - Choose Trigger even if the build fails - save.



In dashboard - Start the job - Can view the First job gets failure and automatically second job get success as we Configure the jobs.

Ensure Email notification is received for job failure.



Successfully configured the Email notification and Configured Automation Job done using Jenkins. Also received job failure Email notification.