

Jenkins Installtion in ec2

- ✓ Create one amazon linux 2 ec2 in aws
- ✓ And open inbound rule of 8080

Installtion of Jenkins in ec2

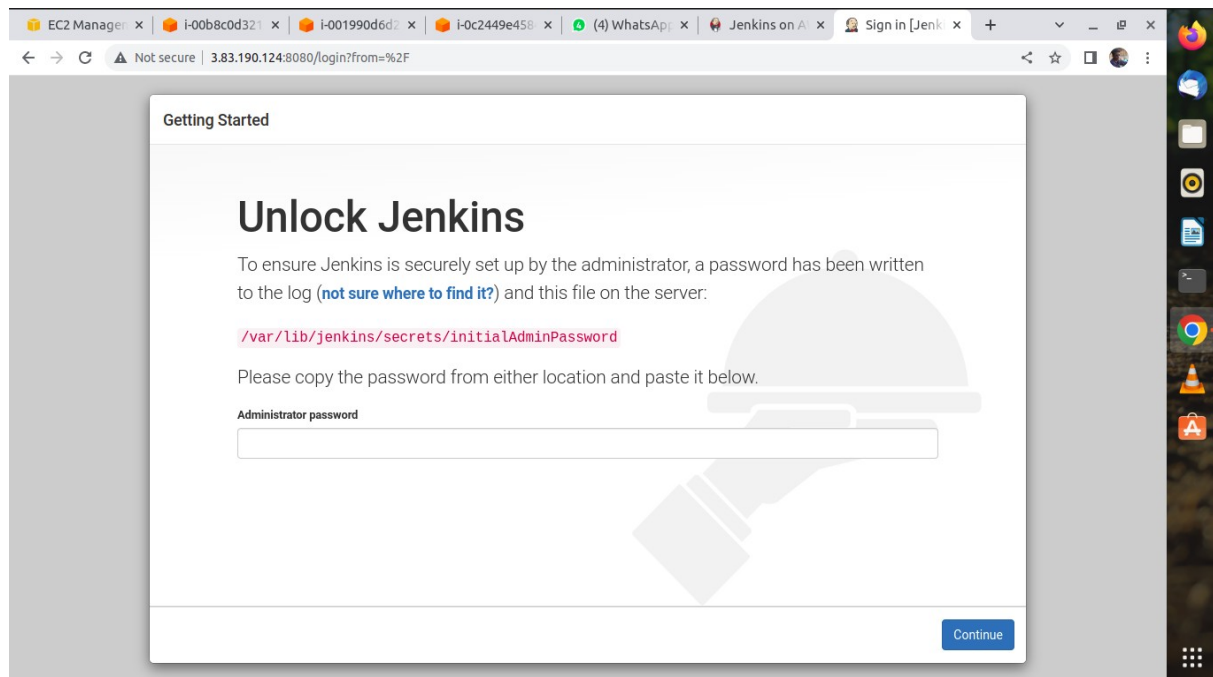
- this is for update ec2 instance
`sudo yum update -y`
- Add the Jenkins repo using the following command:
`sudo wget -O /etc/yum.repos.d/jenkins.repo \`
`https://pkg.jenkins.io/redhat-stable/jenkins.repo`
- Import a key file from Jenkins-CI to enable installation from the package:
`sudo rpm --import`
`https://pkg.jenkins.io/redhat-stable/jenkins.io.key`
- Install Jenkins:
`sudo yum install jenkins -y`
- Enable the Jenkins service to start at boot:
`sudo systemctl enable jenkins`
- Start Jenkins as a service:
`sudo systemctl start jenkins`
- You can check the status of the Jenkins service using the command:
`sudo systemctl status jenkins`

Installation of JDK

- `sudo amazon-linux-extras install java-openjdk11 -y`

Configuring Jenkins

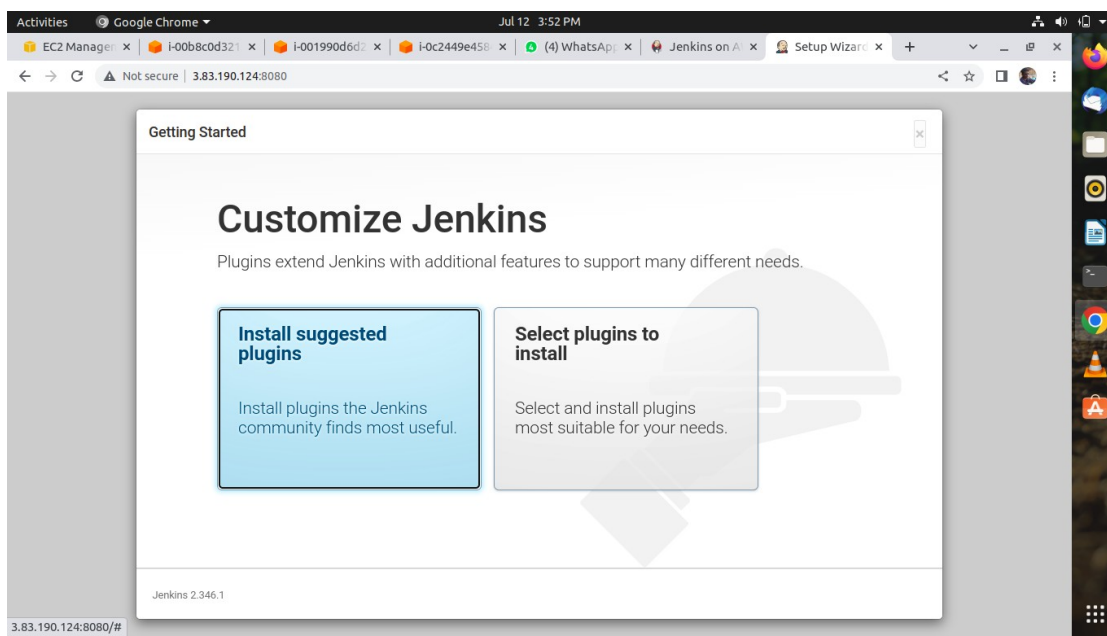
1. Connect to `http://<ip>:8080`
2. It will ask for Unlock Jenkins



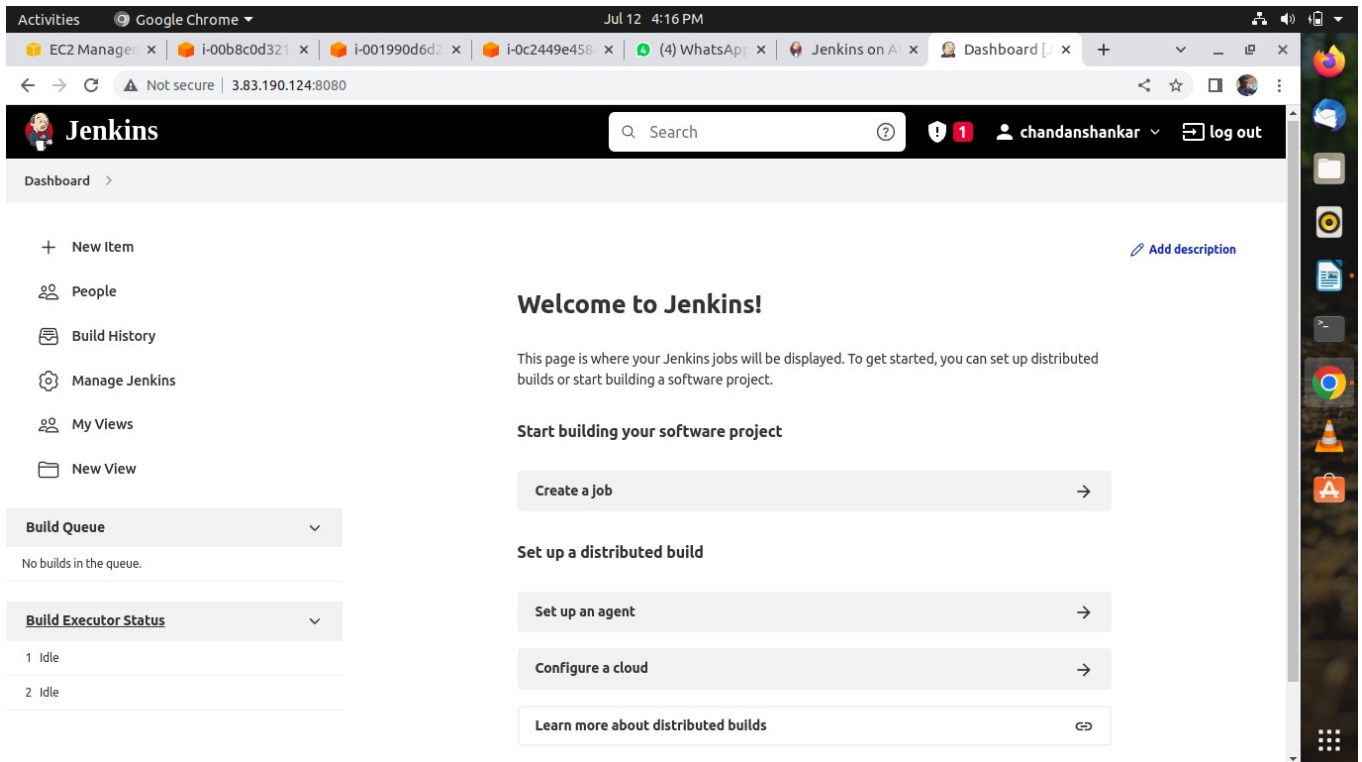
3. we can get unlock Jenkins

That is present in `sudo cat /var/lib/jenkins/secrets/initialAdminPassword`

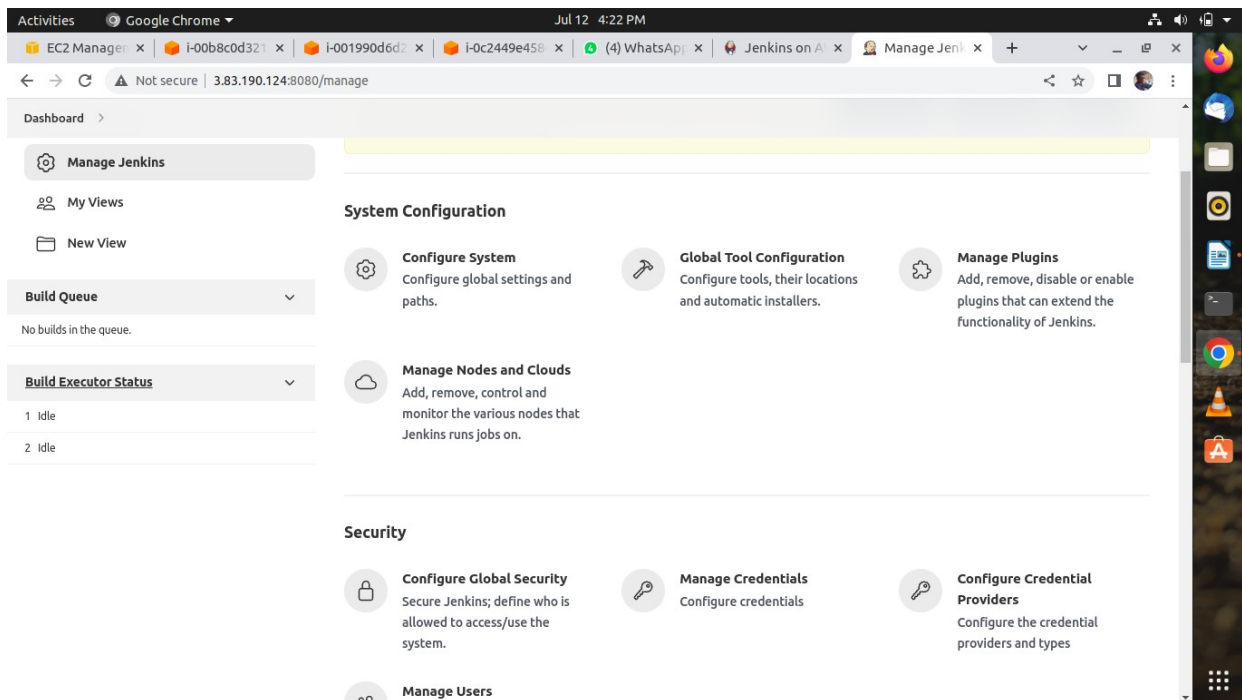
4. Then it will ask to install Suggested plugin



5. And Create first Admin user
6. After that we can get Jenkins page



7. Jenkins Dashboard will contain
New Item, People, Build History, Manage Jenkins, MY Views, New Views
8. Build history will show all Jenkins Build history in map like data
9. Manage Jenkins
will contain the Configure system, Global Tool Configuration, Manage plugins, Manage node and cloud under system configuration
And Security Configure Global security, Manage Credential, Configure Credential Providers and Manage Users
10. And like this way we have status information troubleshooting Tools and action



11. How to set Global Tool Configuration

In this section we need to add the data about git, maven, jdk, gradle, ant related content

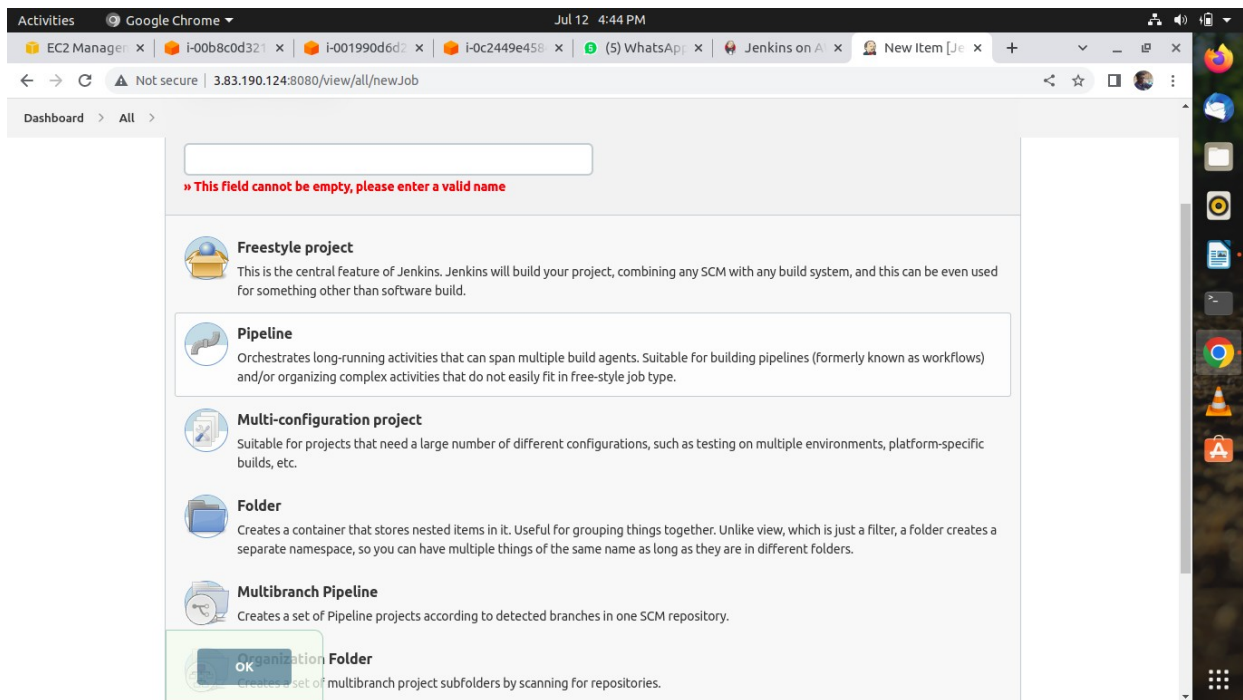
12. Under Configure system

we have Jenkins setting data like home directory, Jenkins location, timestamp, fingerprint, Github and its API, shell, and E-mail notifications

13. In Jenkins we can Create FreeStyle Project, pipeline, Multi-configuration project, Folder, Multi branch pipeline and maven job based on plugin

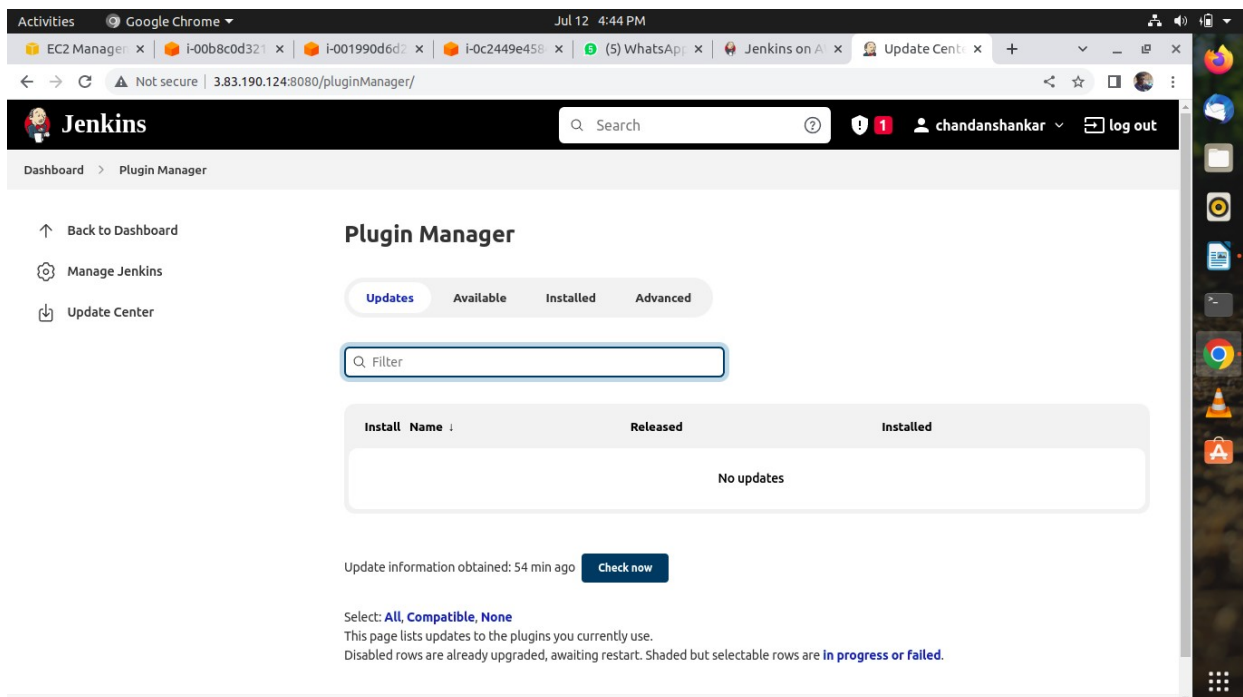
14. In freeStyle job we can run Maximum all type of job

15. In Maven job it support maven related build



16. In plugin manger we can have all the plugin

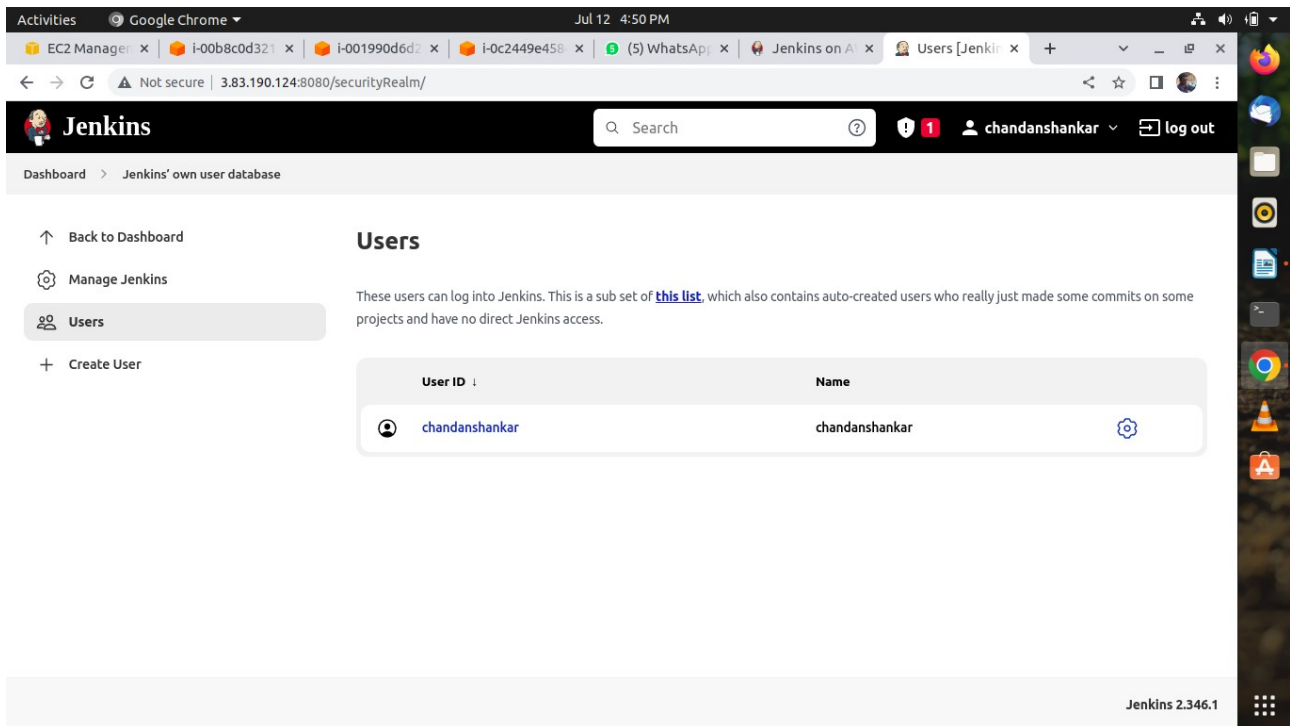
17. we can use that based on our Project configure



18. And we have Pipeline job to achive CI and CD

for the we need to write groove syntax code to execuited the job

Jenkins users



- In user we can create user to login jenkins

Jenkins master and slave

- in jenkins we can distribute work load using master and slave concept
 - we can create slave means node to master jenkins
 - and we can distribute job load in jenkins
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- basically Jenkins will Support 1000+ plugins
 - jenkins is open source but manage in server it will cost the server cost
 - we can easily integrate the jenkins with all tha application based on plugins availblity
 - it is easy to make CI CD because of easy UI design

THANK YOU

