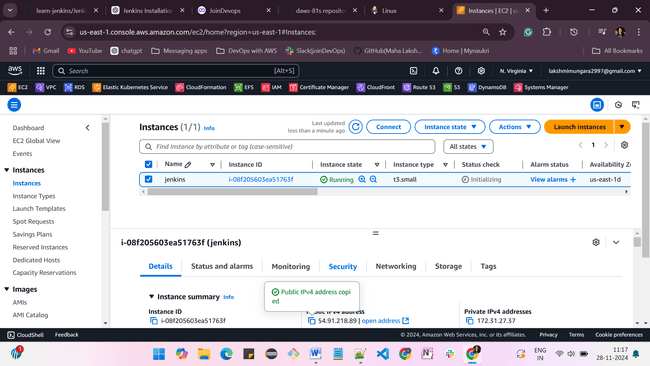
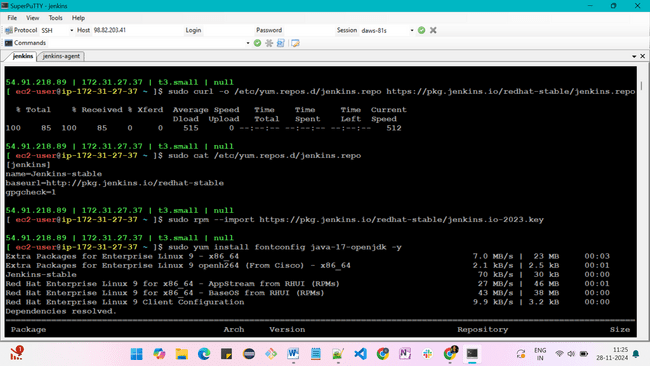
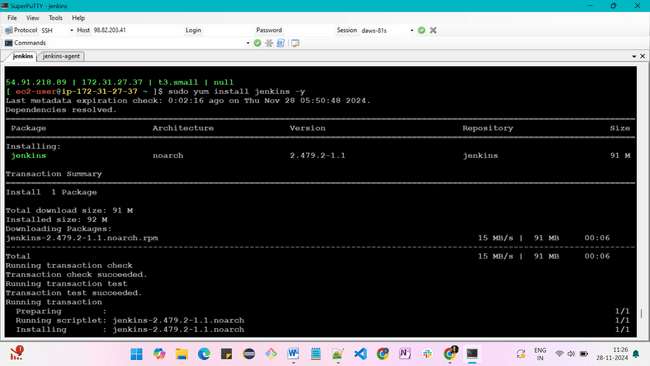
**Day-64 practice (21/11/2024)**

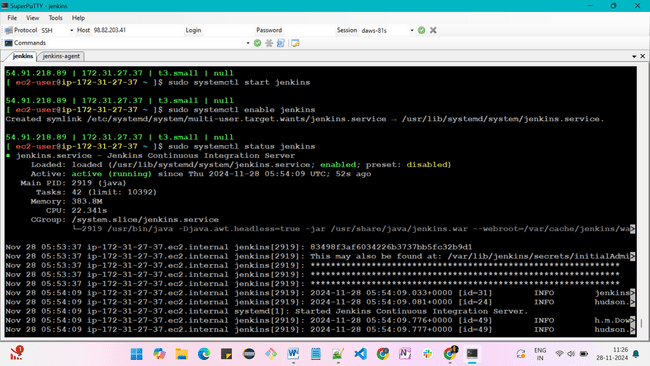


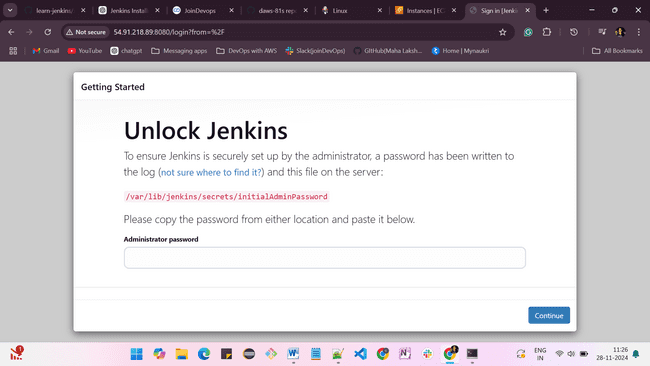
**Jenkins Installation steps**

* sudo curl -o /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
* sudo cat /etc/yum.repos.d/jenkins.repo
* sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key
* sudo yum upgrade (optional)
* # Add required dependencies for the jenkins package
* sudo yum install fontconfig java-17-openjdk -y
* sudo yum install jenkins -y
* sudo systemctl daemon-reload
* sudo systemctl start jenkins
* sudo systemctl enable jenkins

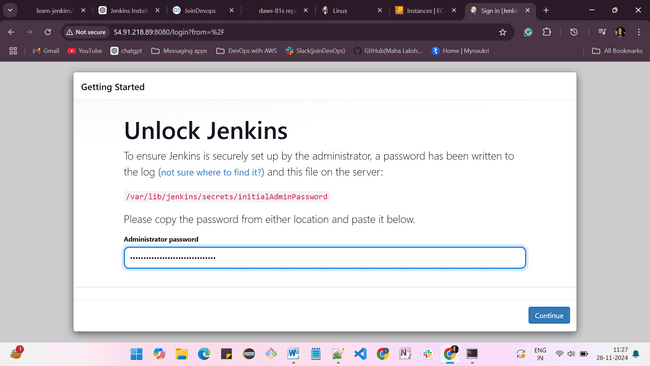


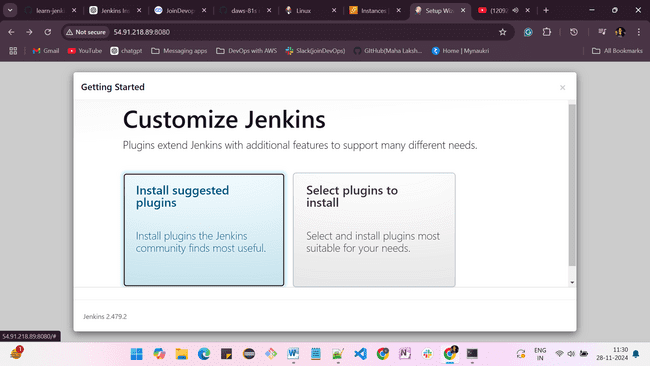


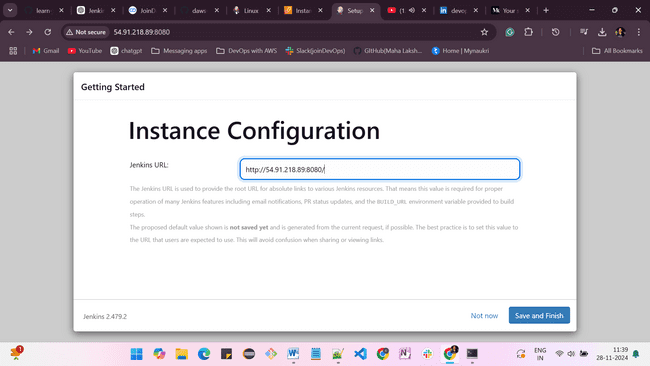


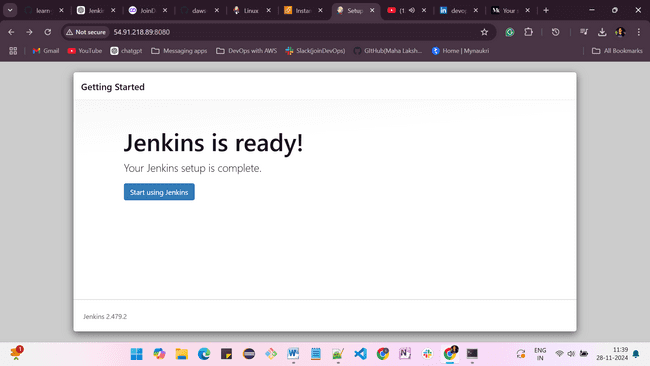


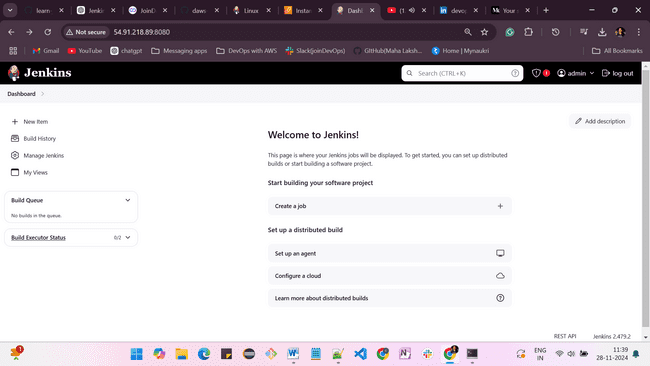


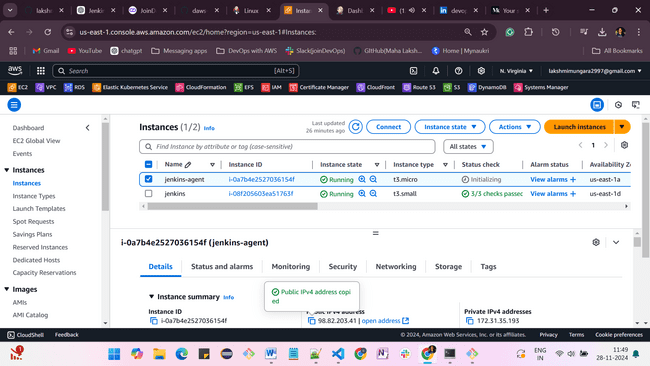


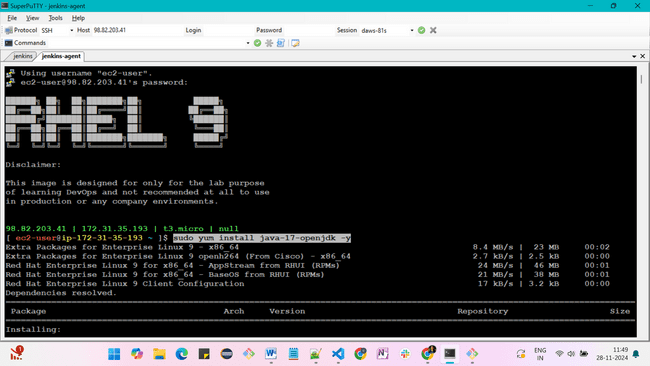


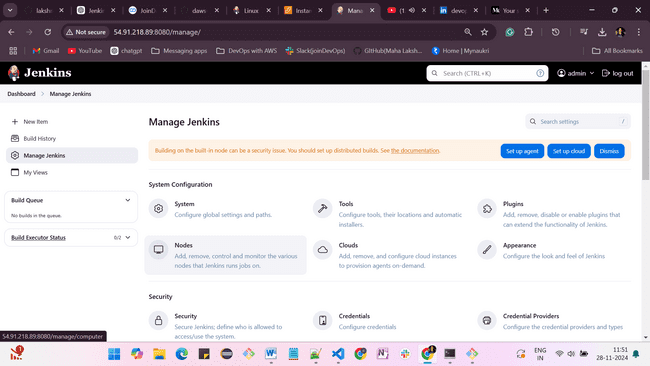


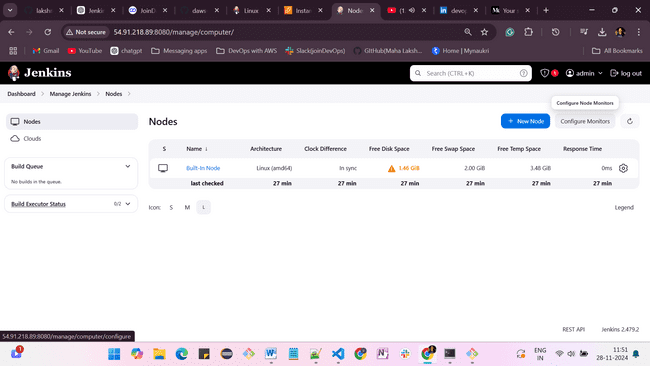


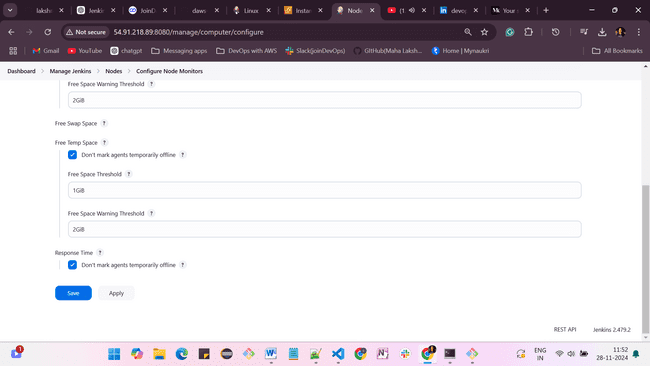


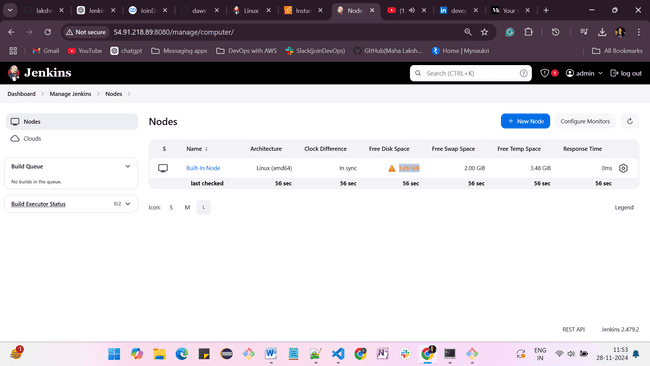












* Jenkins dashboard -> manage jenkins -> Nodes -> New node (AGENT-1) and check the permanent agent -> create
* no.of executors - 3
* remote root directory - /home/ec2-user/’jenkins-agent ‘
* labels - AGENT-1
* Usage - Only build joibs with label expressions matching this nodes
* launch method - launch agents via SSH

Host - agent private ip address

credentials - click on add

Select the kind - username and password

scope - global

username - ec2-user

password - DevOps321

ID - ssh-auth

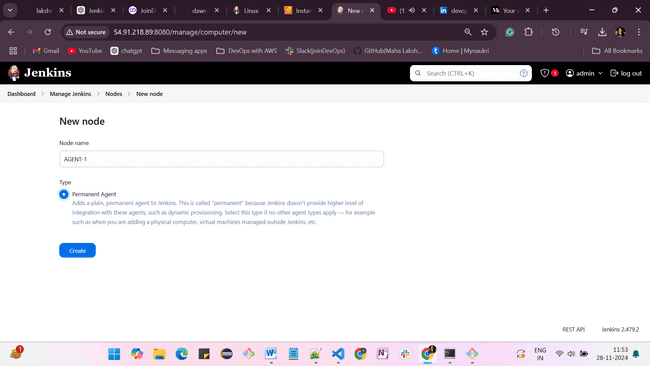
description - ssh-auth

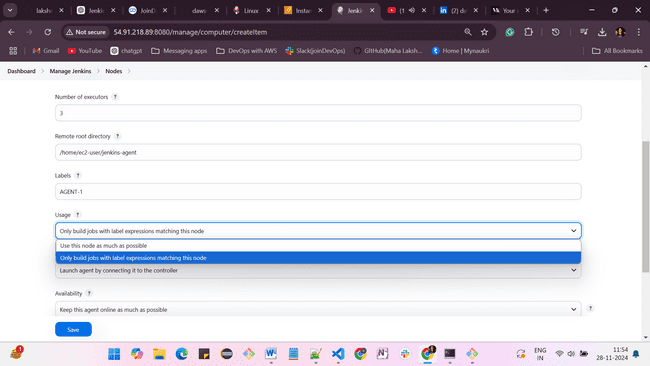
* Click on add
* After creation select the credentials

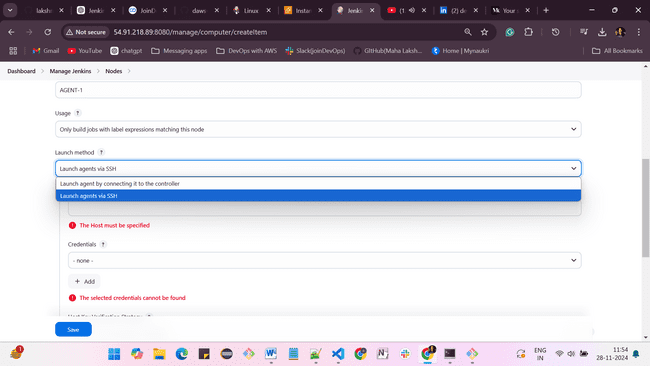
Host key verification strategy - Non verifying verification strategy

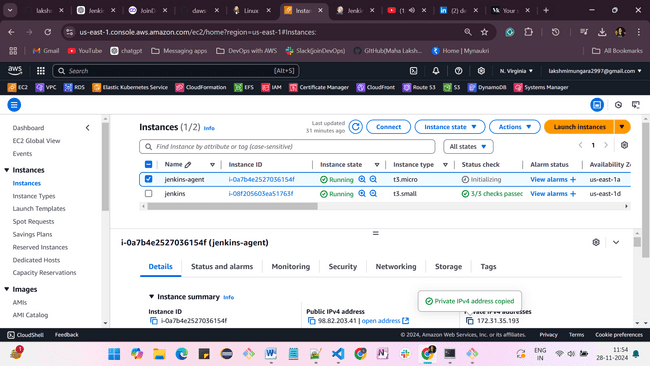
Availability - keep this agent online as much as possible

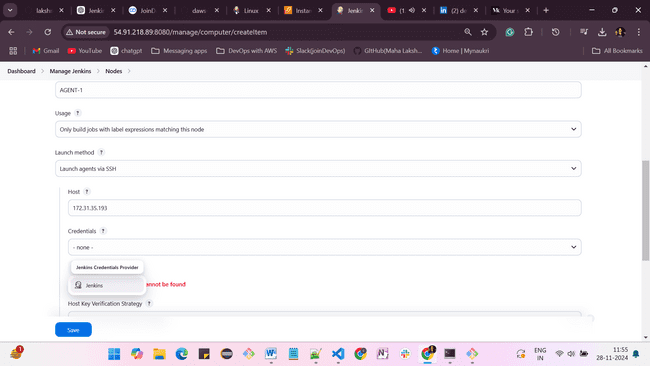
* click on save

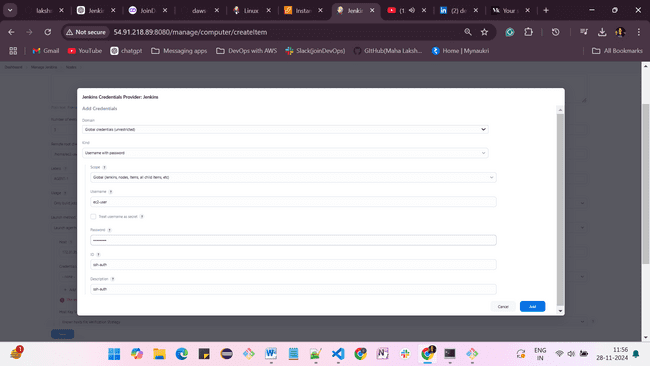


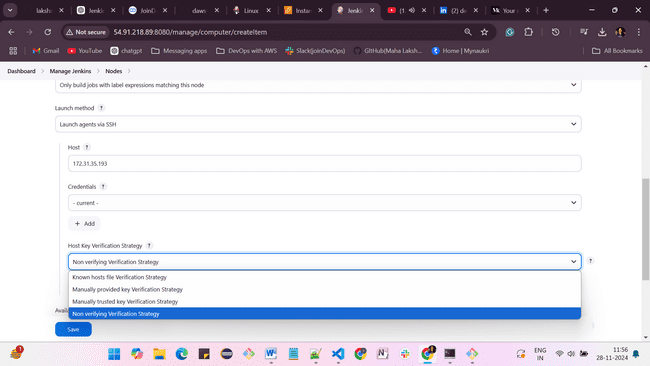


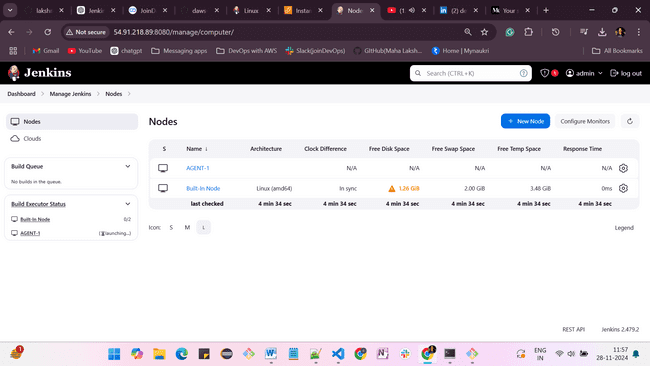


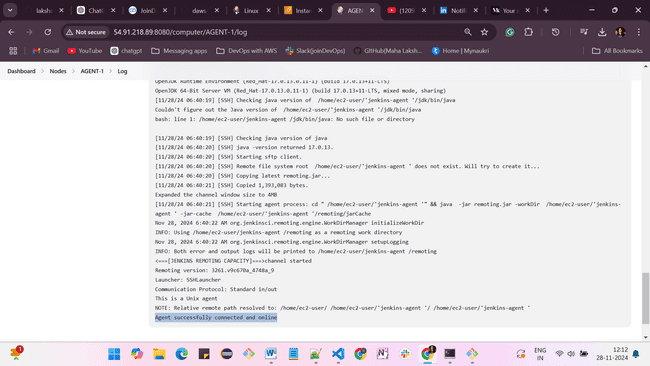


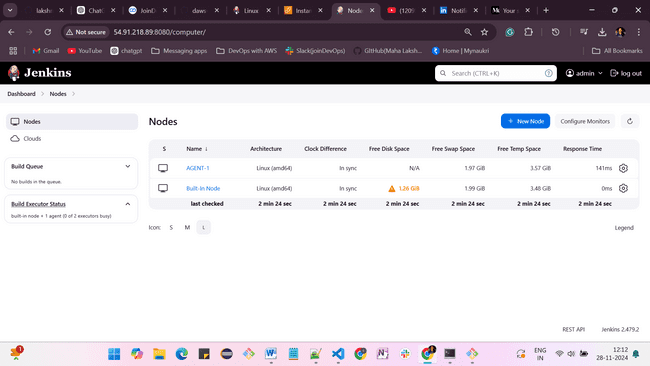


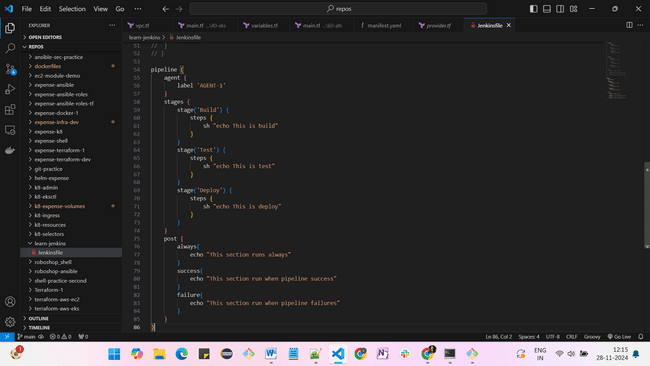


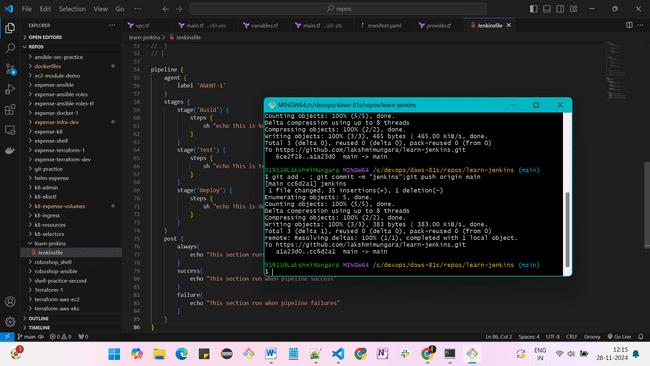


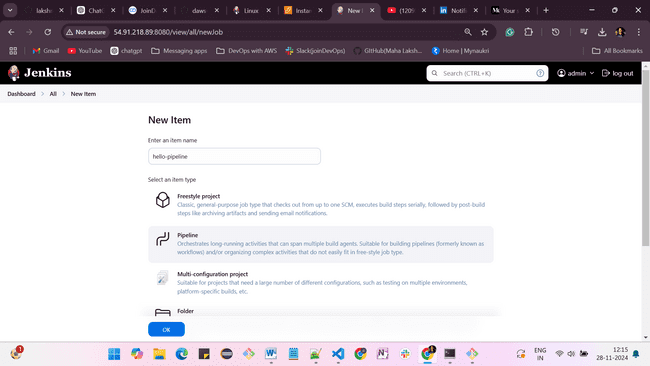


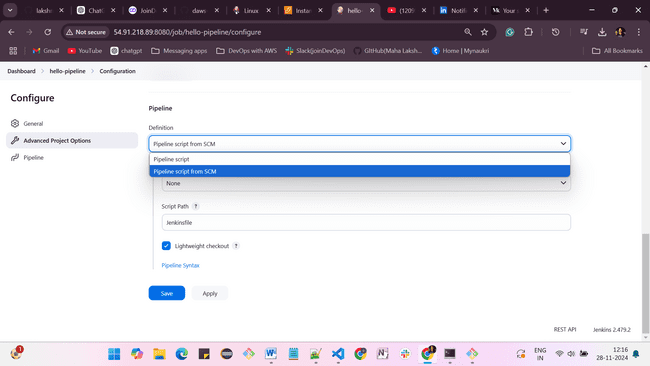


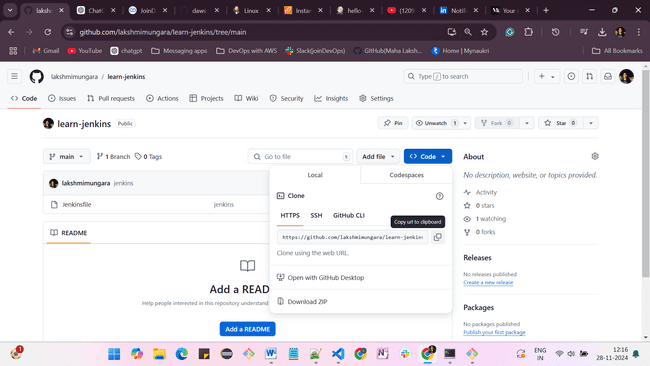


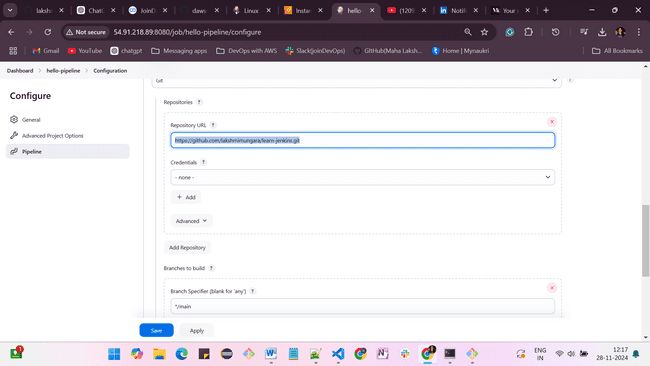


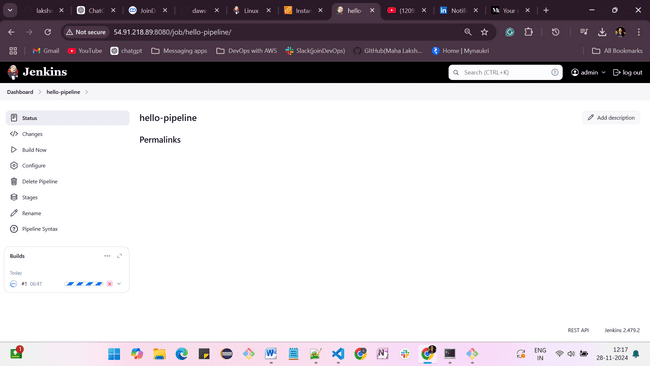


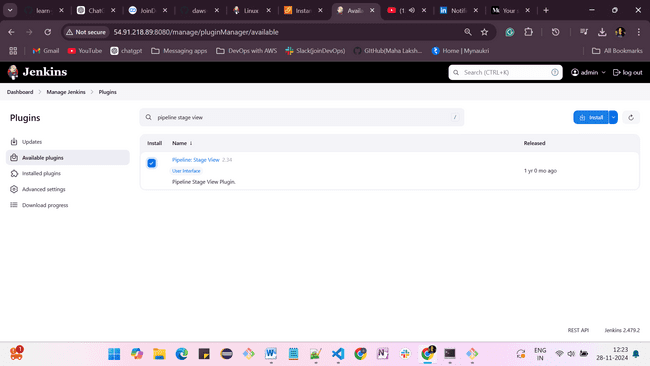


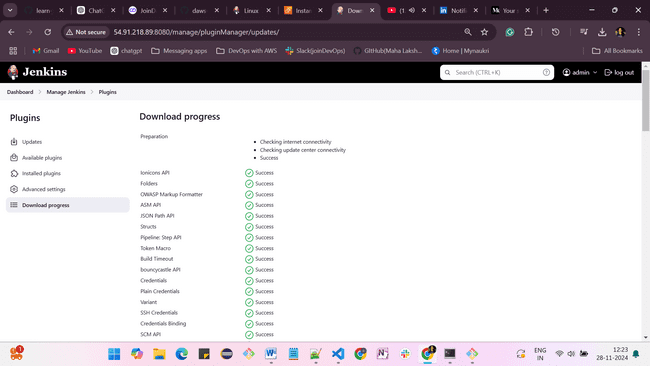


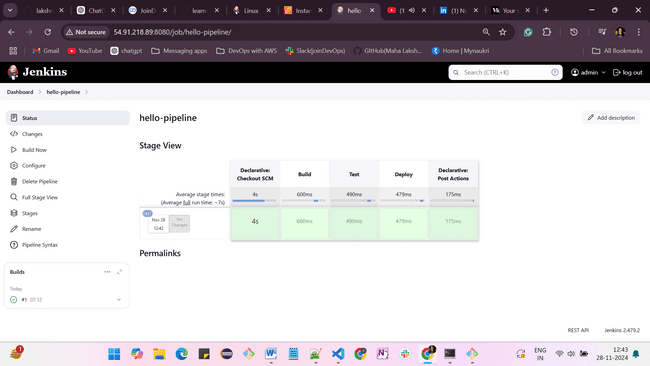


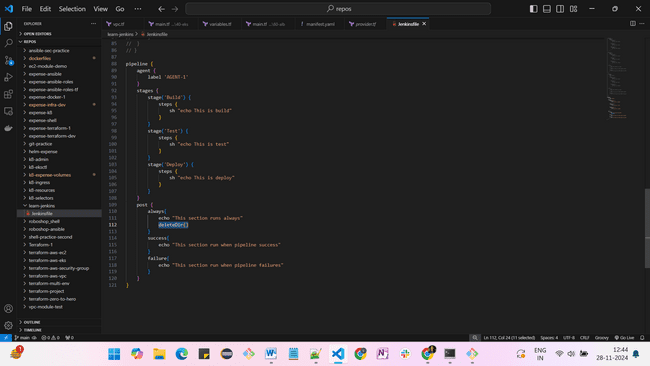


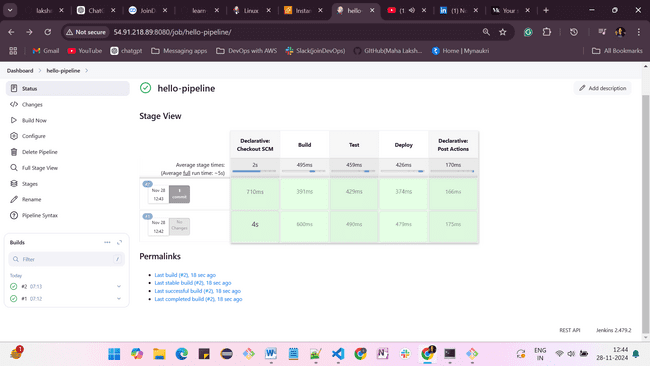


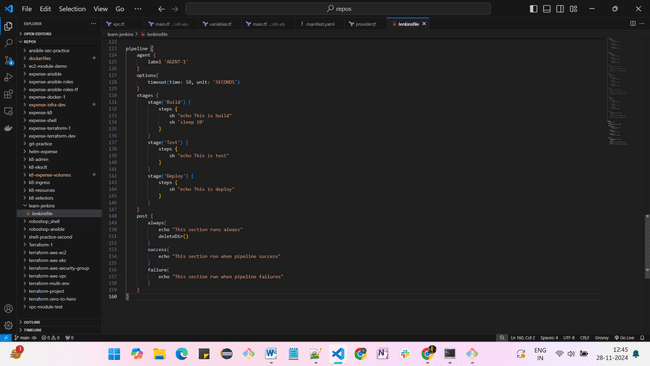


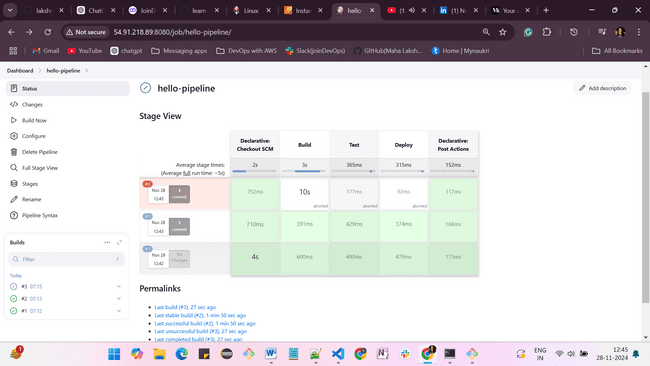


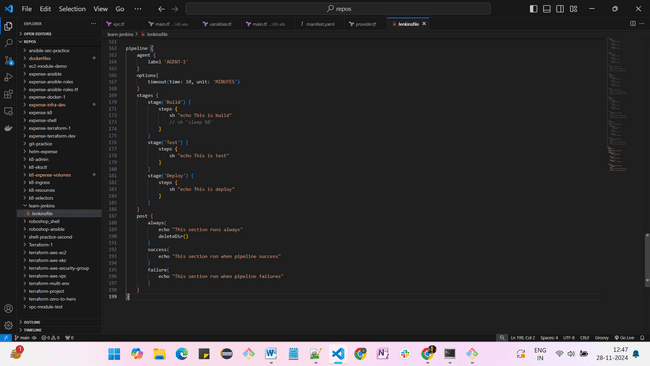


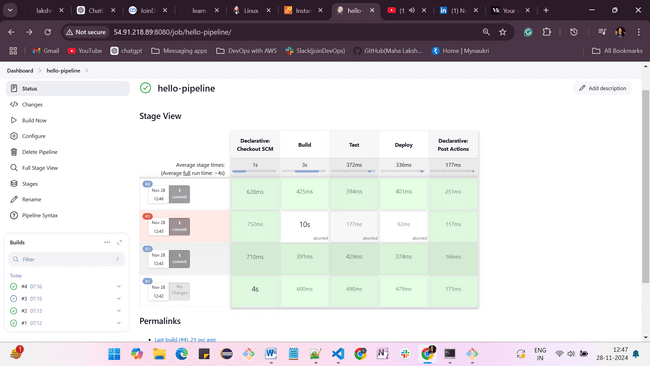


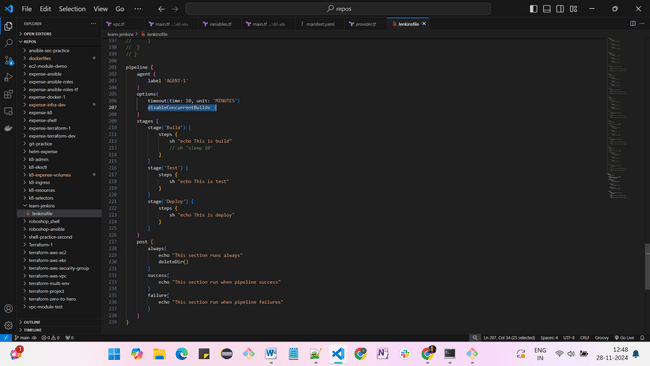


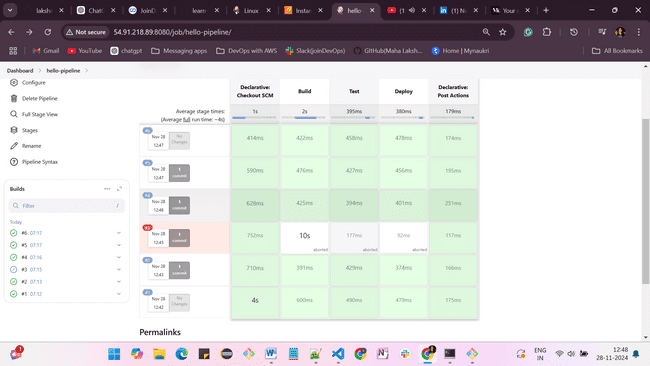


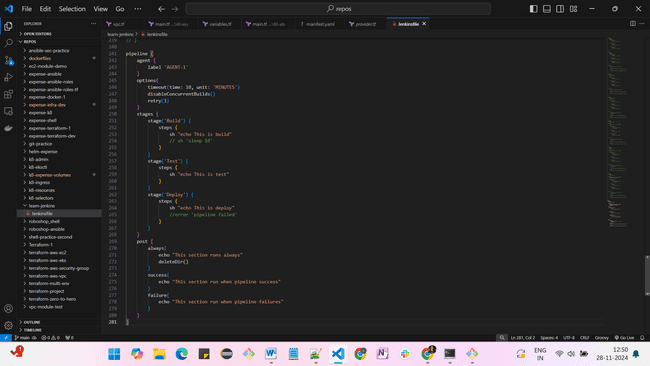


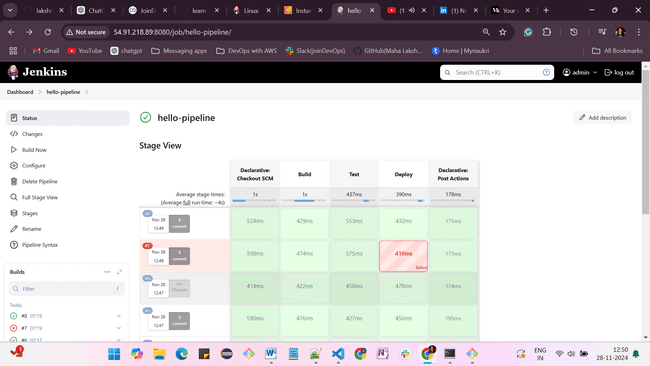


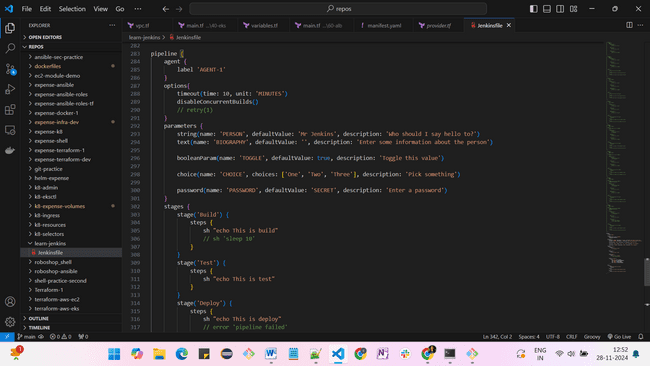


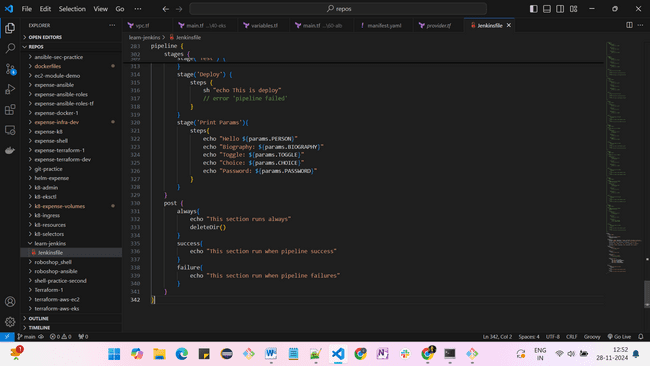


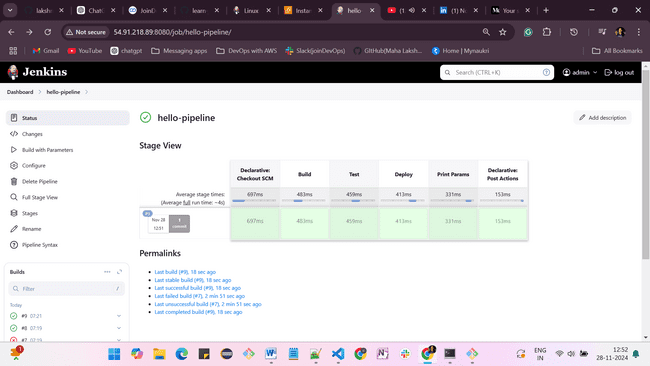


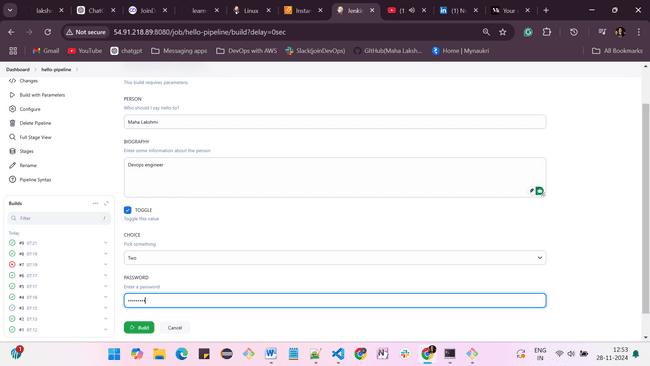


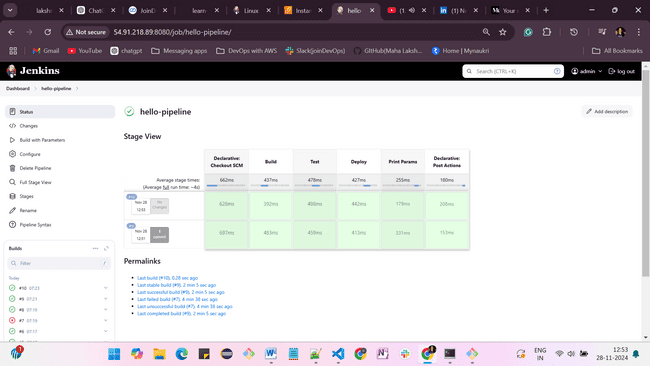












In github -> in learn-jenkins settings -> click on webhooks -> add webhooks

Payload URL -> https://<master-jenkins ip address>:8080/github-webhook/ -> / in the end is imporatant

content type -> application/json

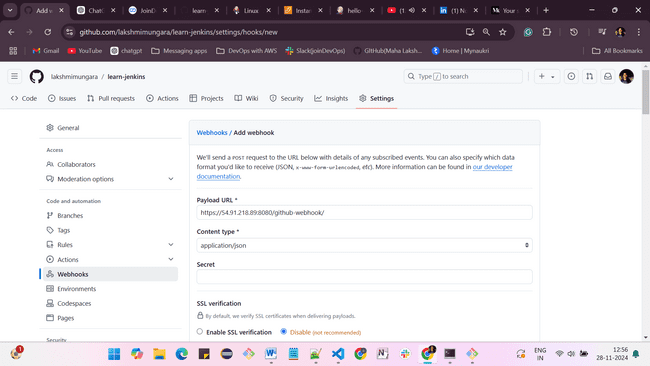
SSL verification

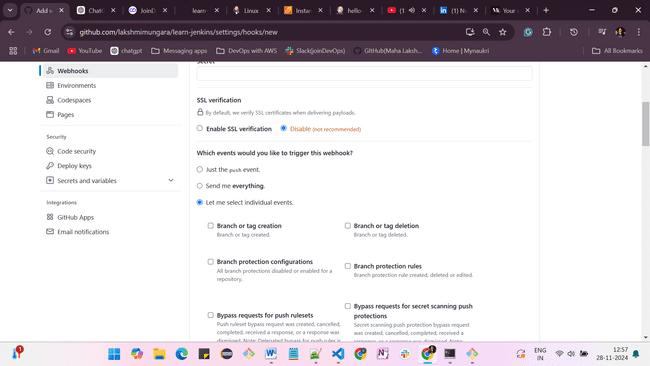
click on disable

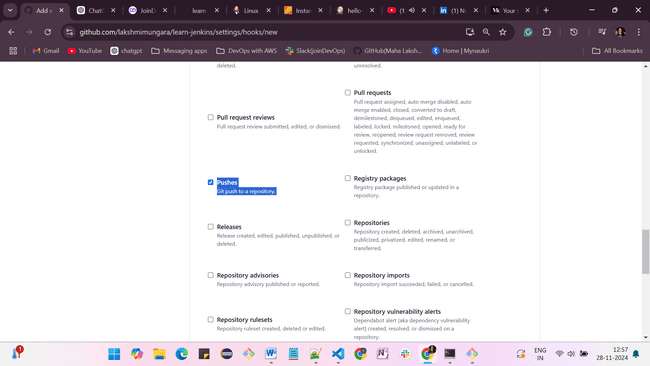
which events would you like to trigger this webhook? - let me select individual events

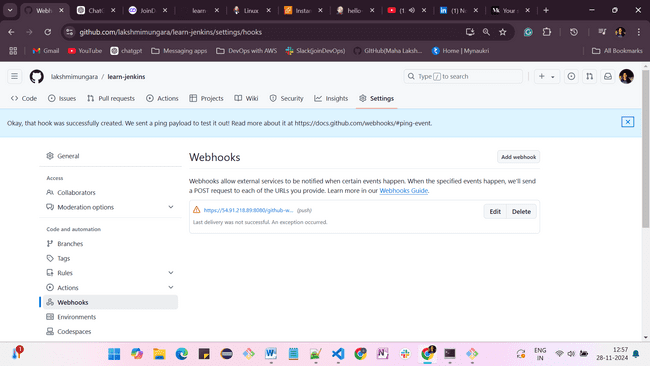
select the pushes

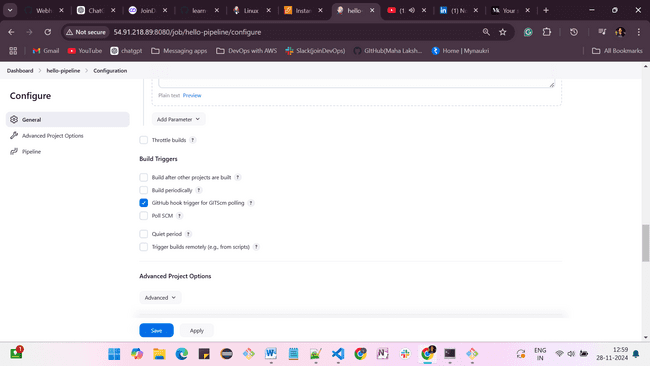
click on add webhooks

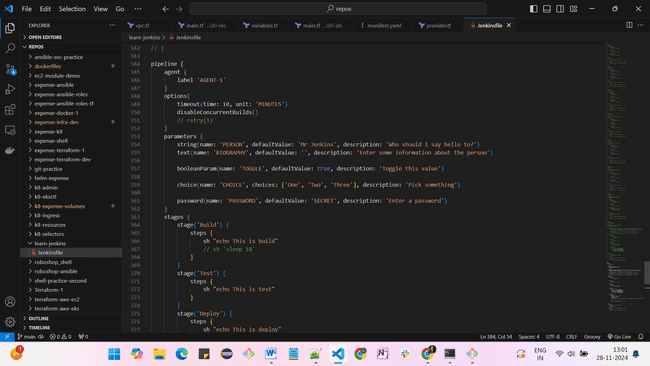


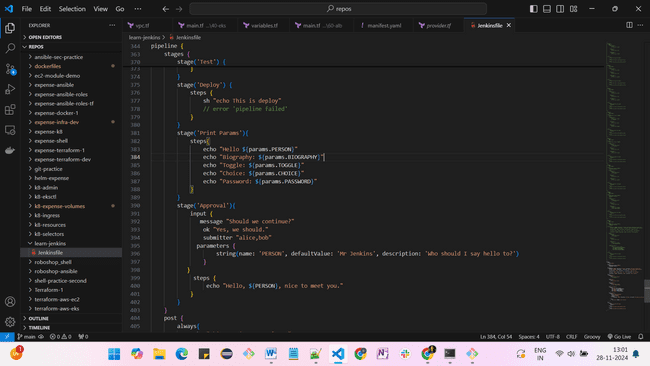


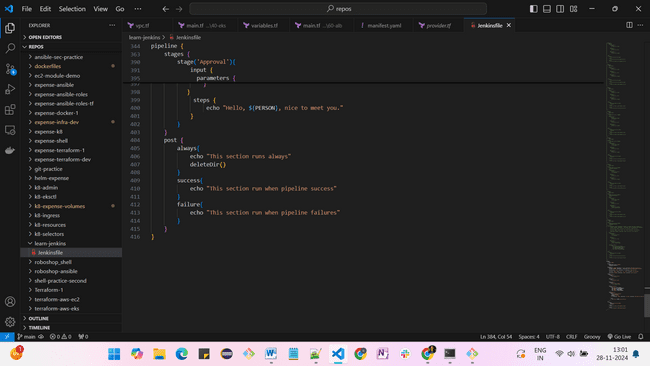


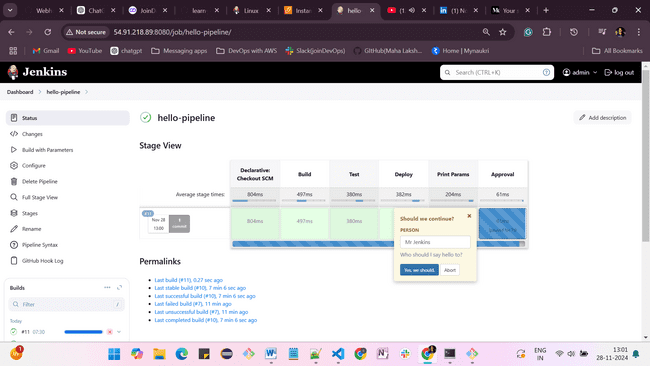


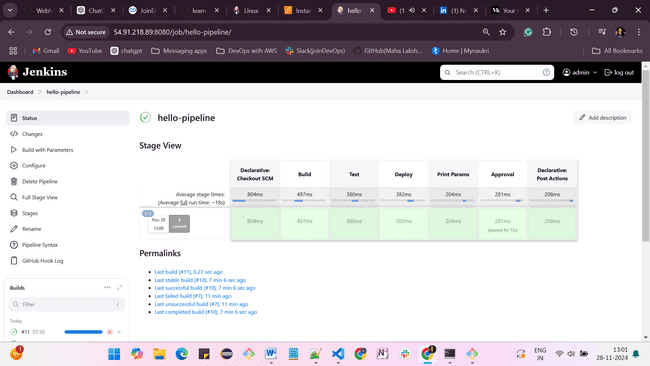


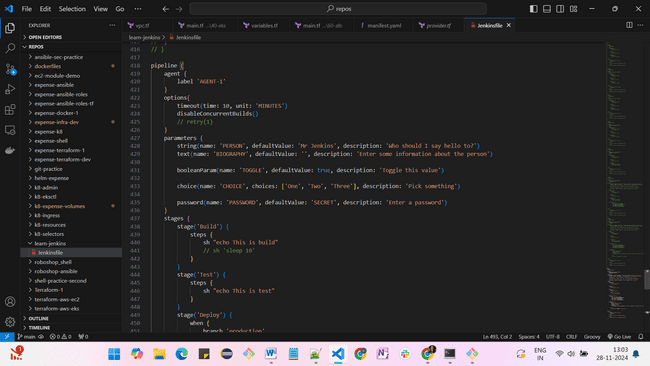


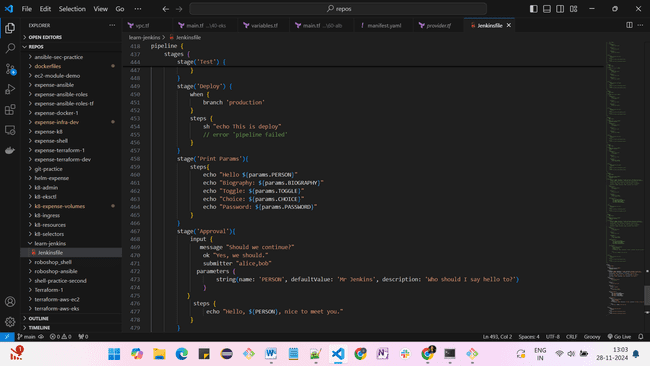


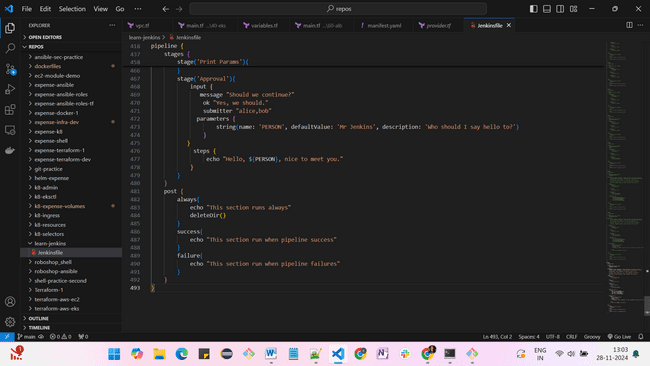


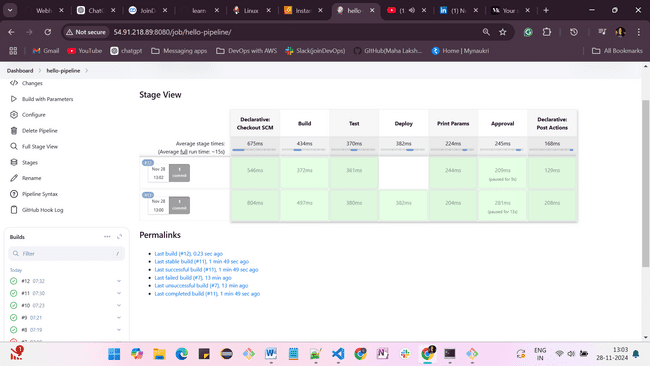


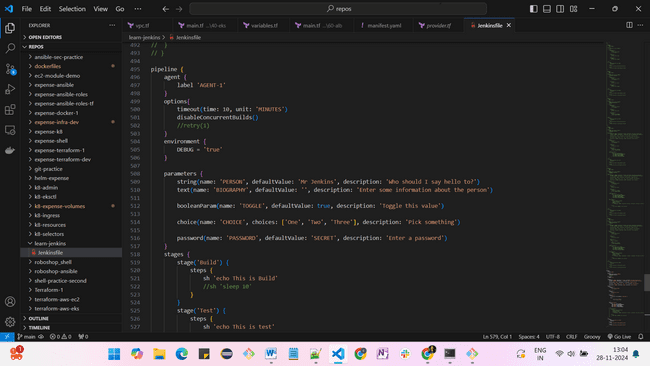


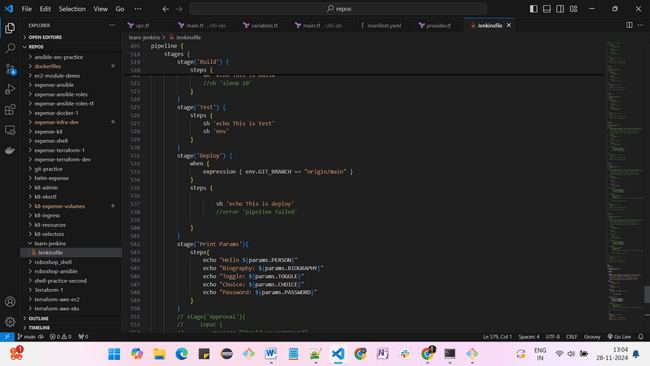
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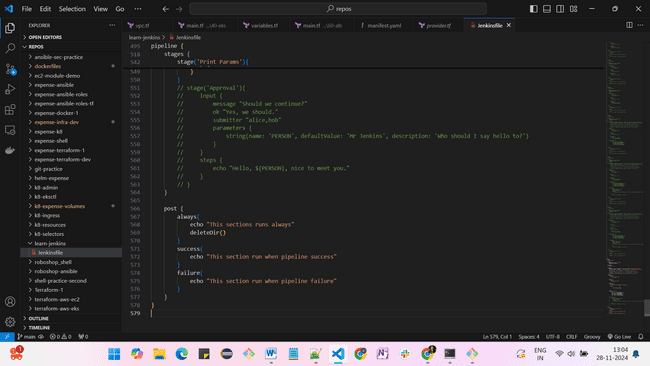


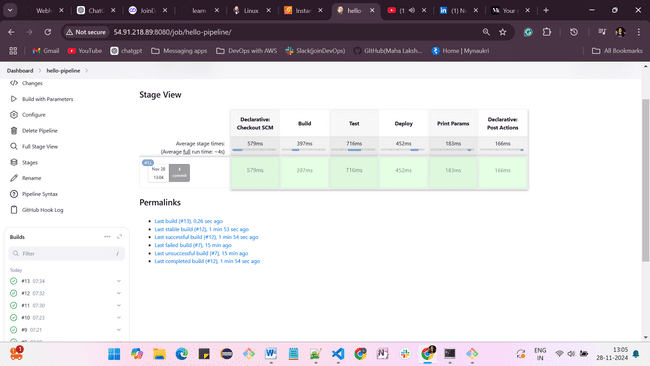


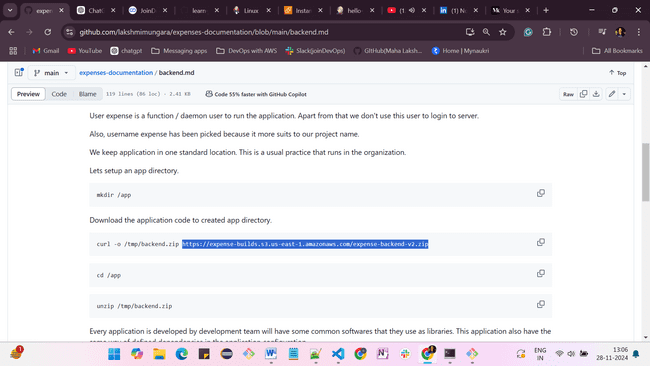


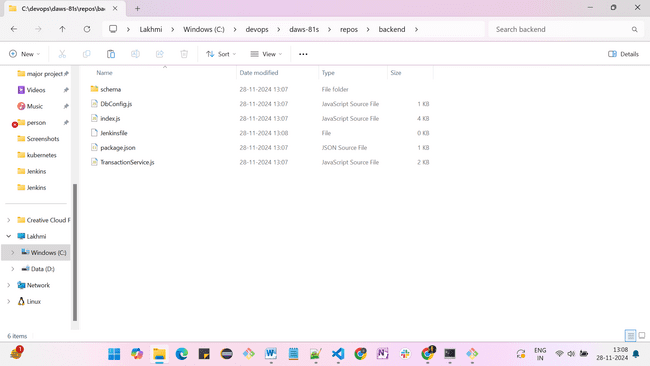










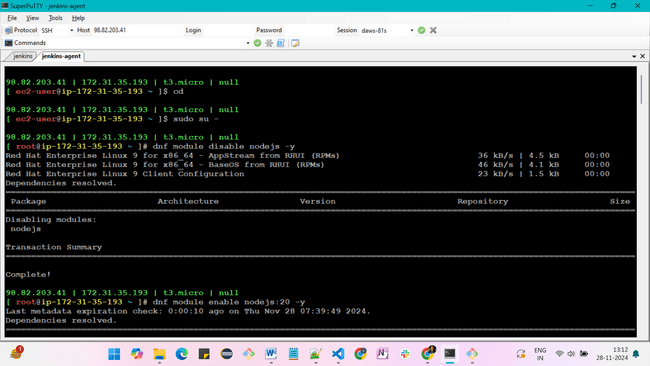


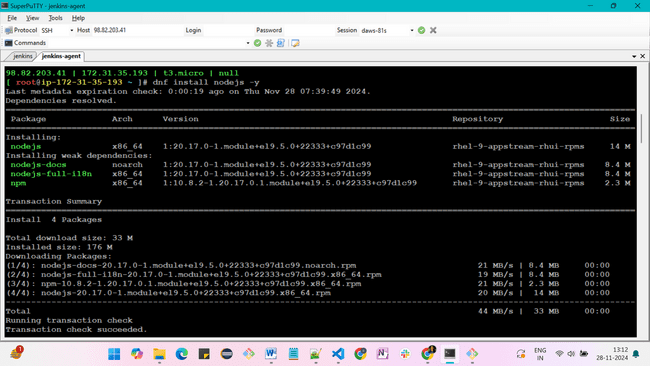
we have to install npm dependencies in jenkins-agent

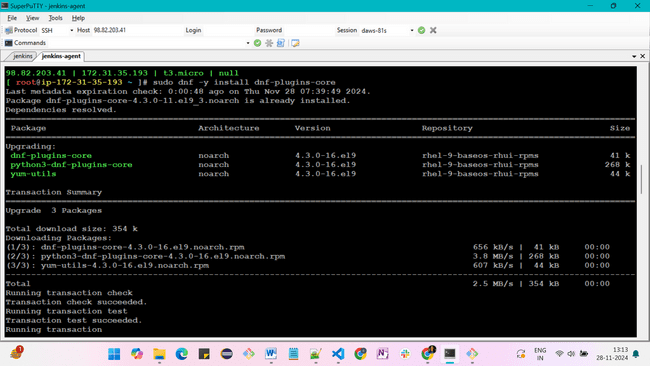
* cd
* sudo su -
* dnf module disable nodejs -y
* dnf module enable nodejs:20 -y
* dnf install nodejs -y
* exit

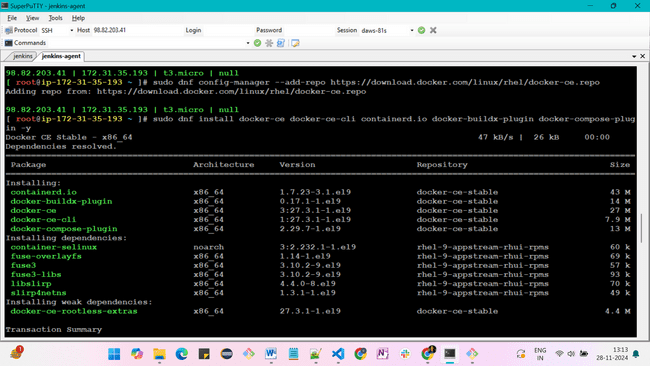
we have to install docker in jenkins-agent

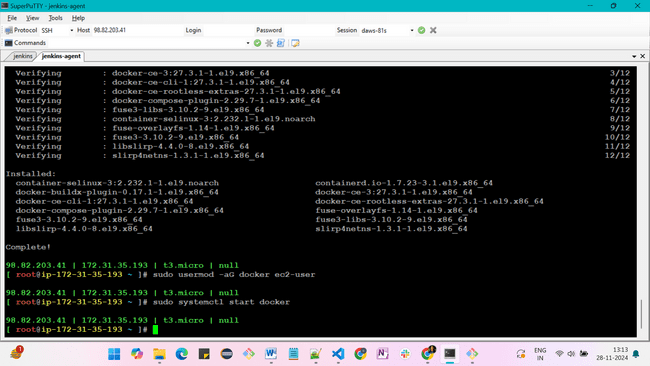
* sudo dnf -y install dnf-plugins-core
* sudo dnf config-manager --add-repo https://download.docker.com/linux/rhel/docker-ce.repo
* sudo dnf install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin -y
* sudo usermod -aG docker ec2-user
* sudo systemctl start docker











Now once disconnect the agent and connect it again

* In dashboard -> nodes -> AGENT-1 -> Disconnect -> click on yes
* And then launch again

