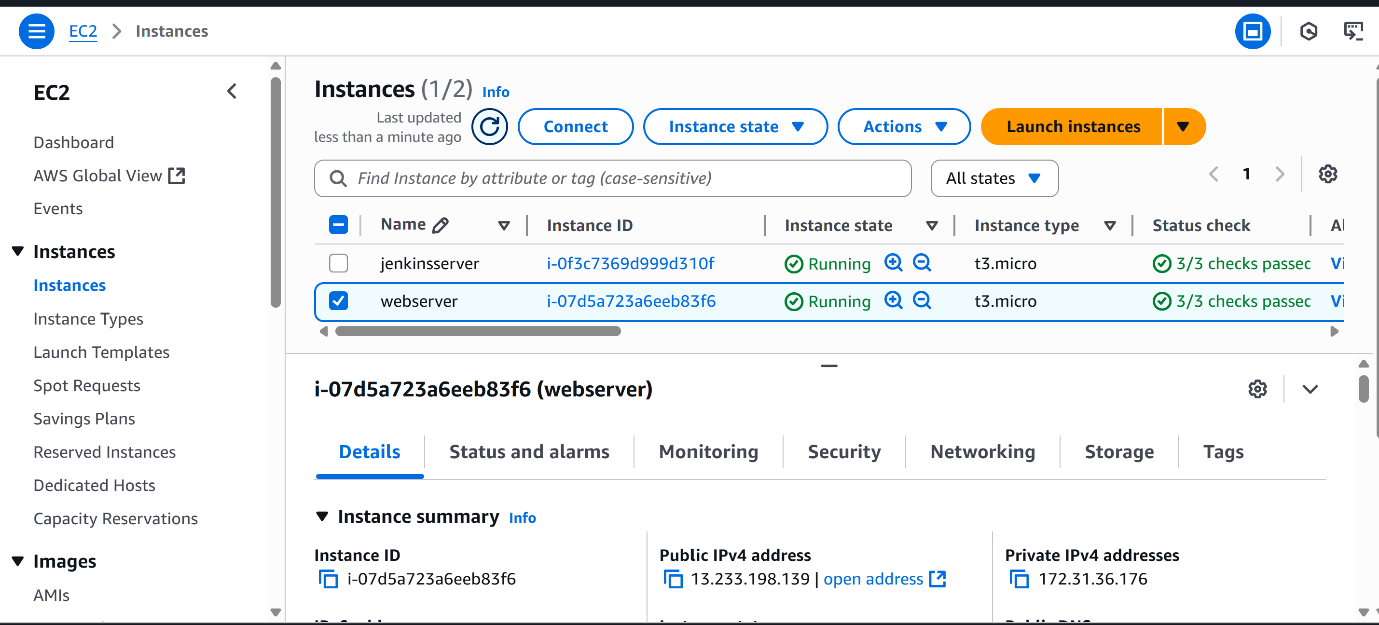
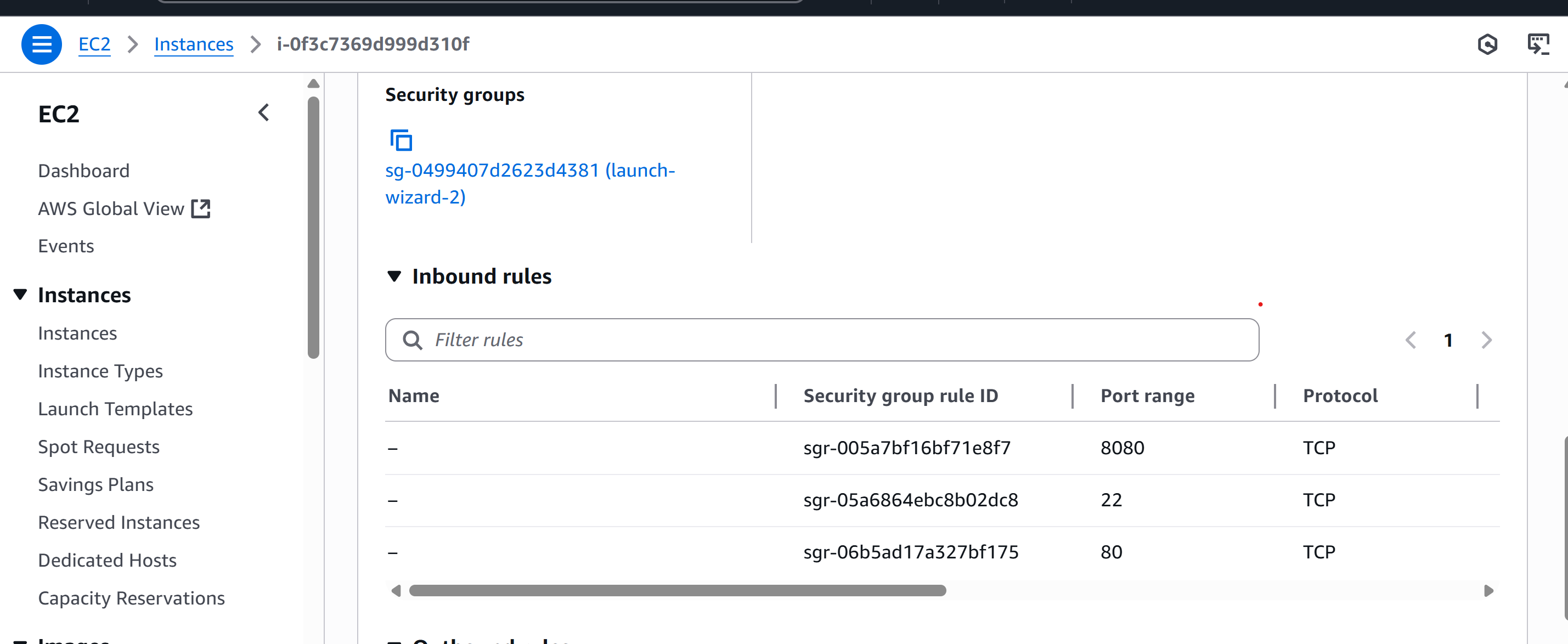
Sample Node JS code -https://github.com/phadnisanand/node-sample

Created 2 ec2 instances- 1) webserver in which node js application will get deployed

2) jenkinsserver – which is authenticated with Github and in which Jenkins is present.



Security Group Allow rules: Attach the same security group to both EC2 instances.



Installed Jenkins on one EC2 instance jenkinsserver

SSH into Jenkins EC2:

sudo yum update -y

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

sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo

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

sudo yum install jenkins git -y

sudo systemctl enable jenkins

sudo systemctl start jenkins

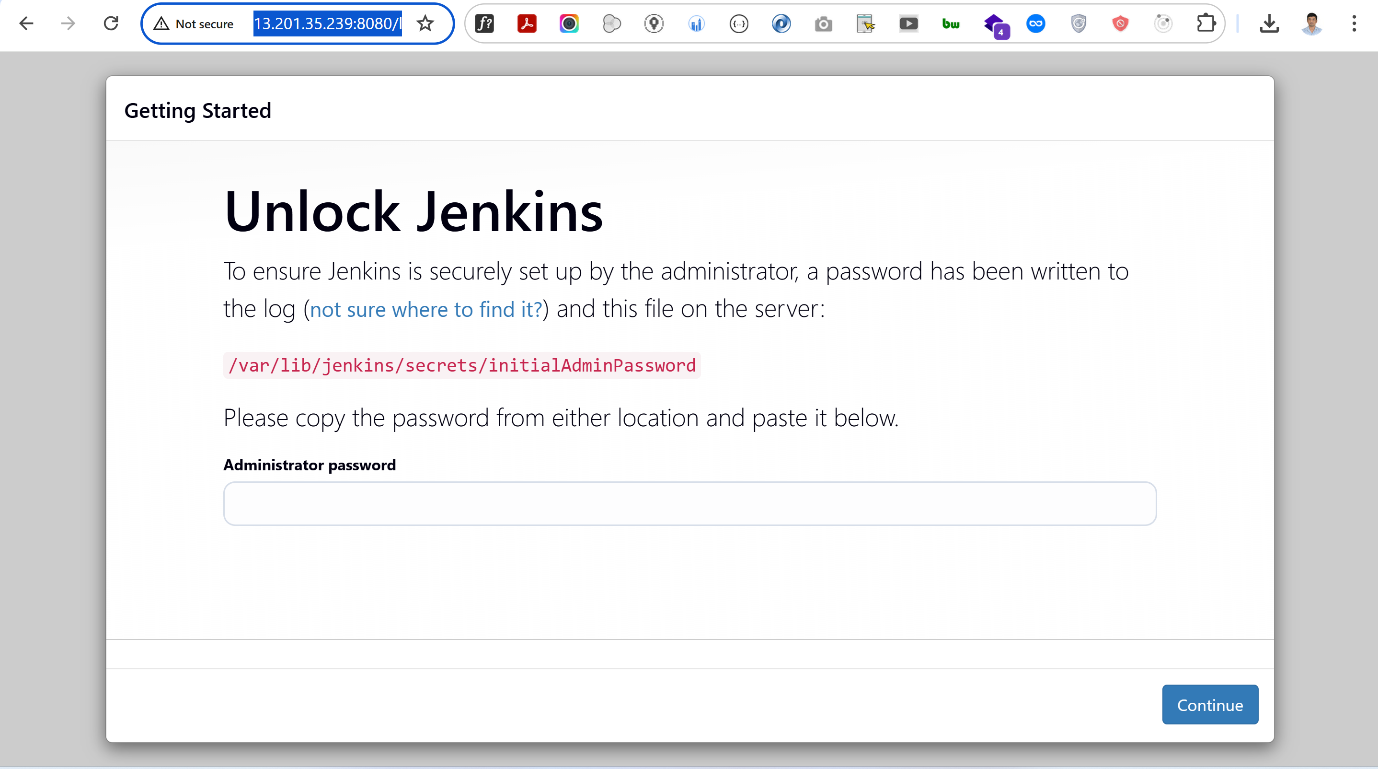
Check Jenkins on browser:  
http://<Jenkins-EC2-Public-IP>:8080

Unlock Jenkins using:

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

Install suggested plugins, and also **NodeJS Plugin** (for building UI apps).

sudo systemctl status Jenkins -> Start Jenkins server

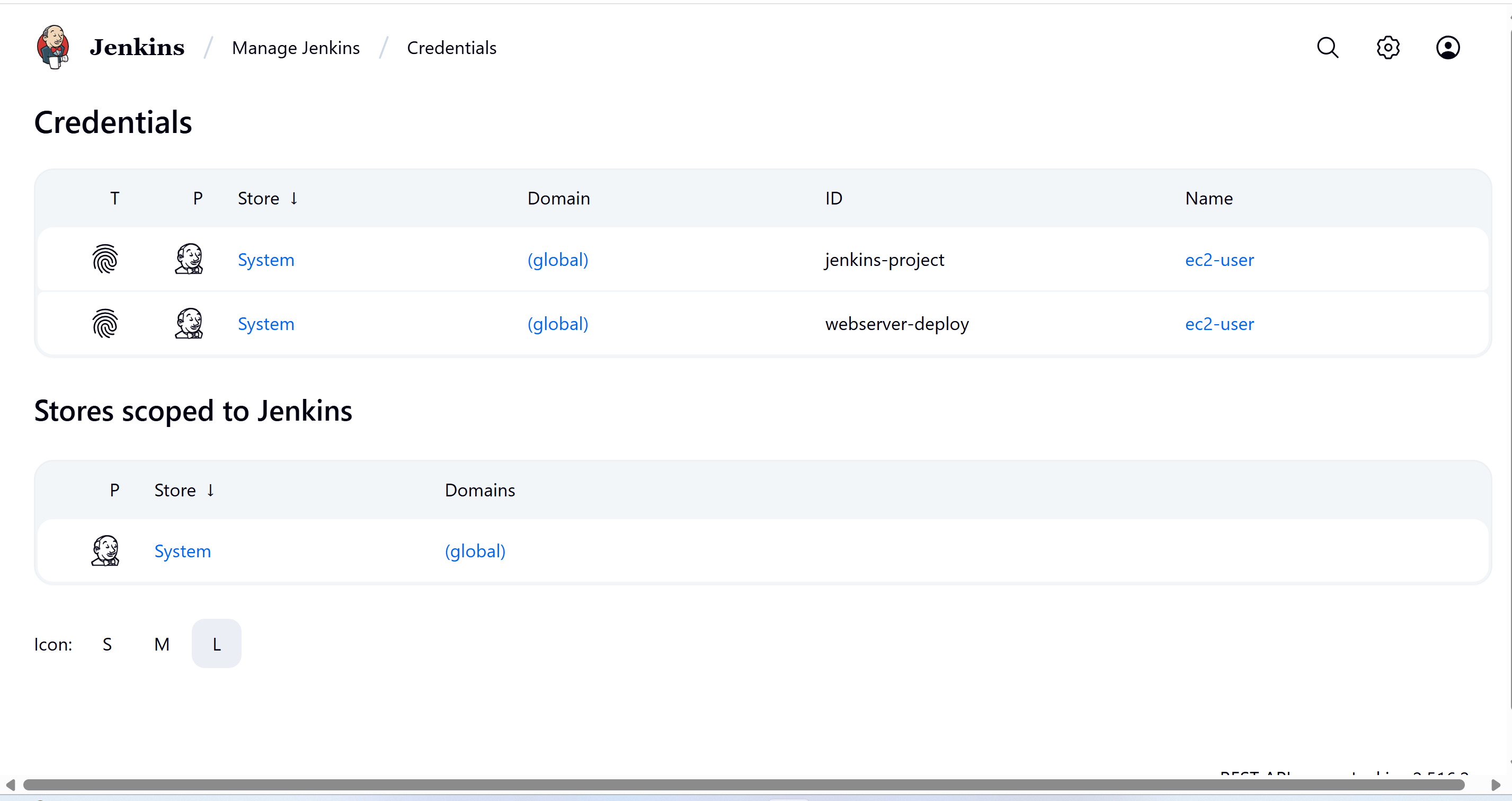
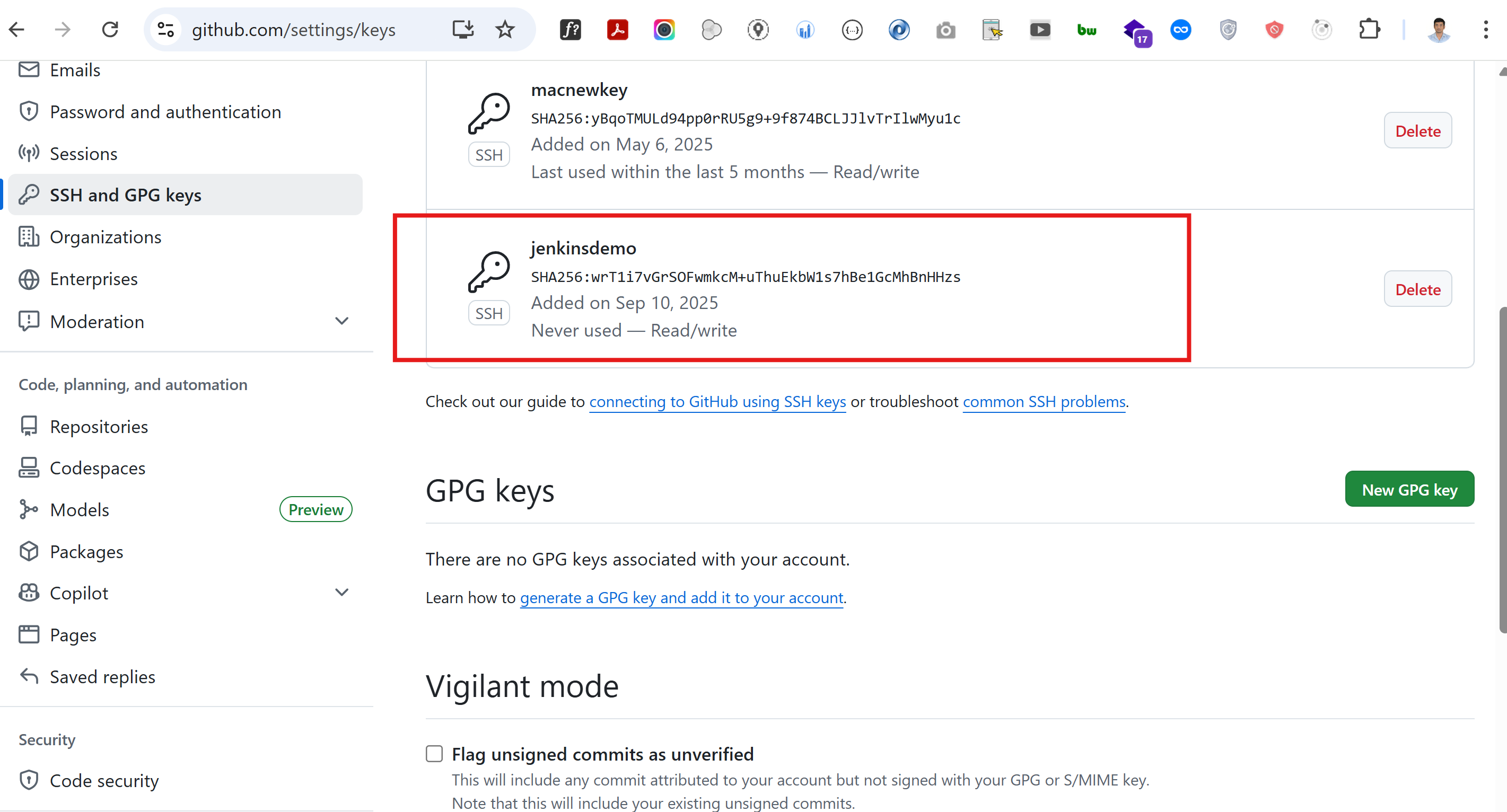


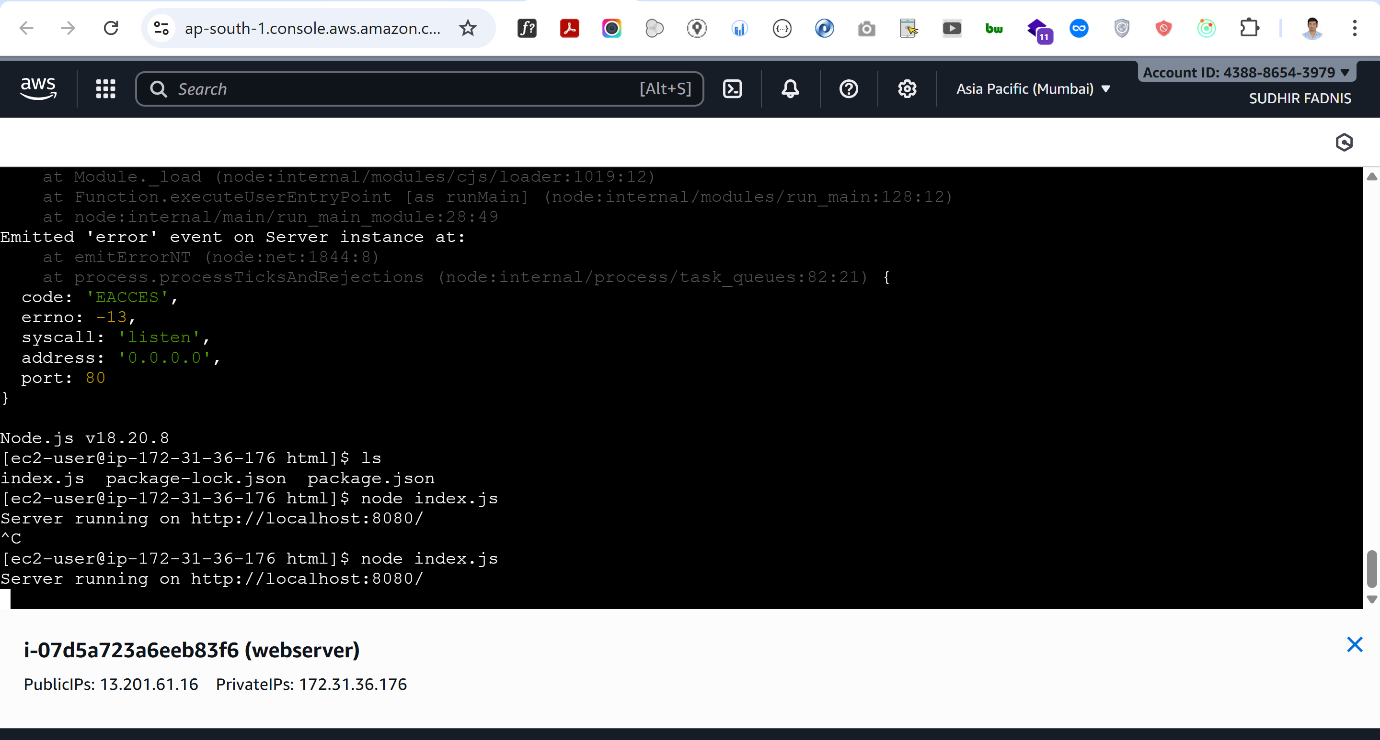
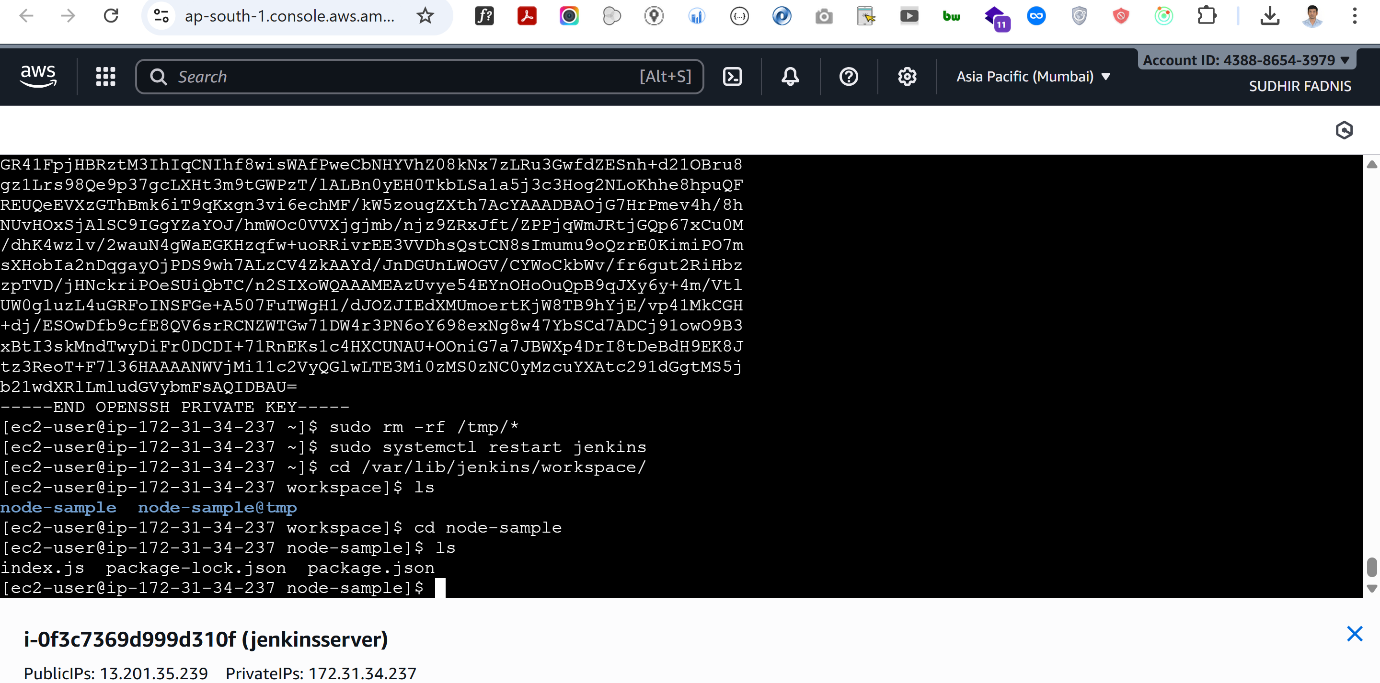
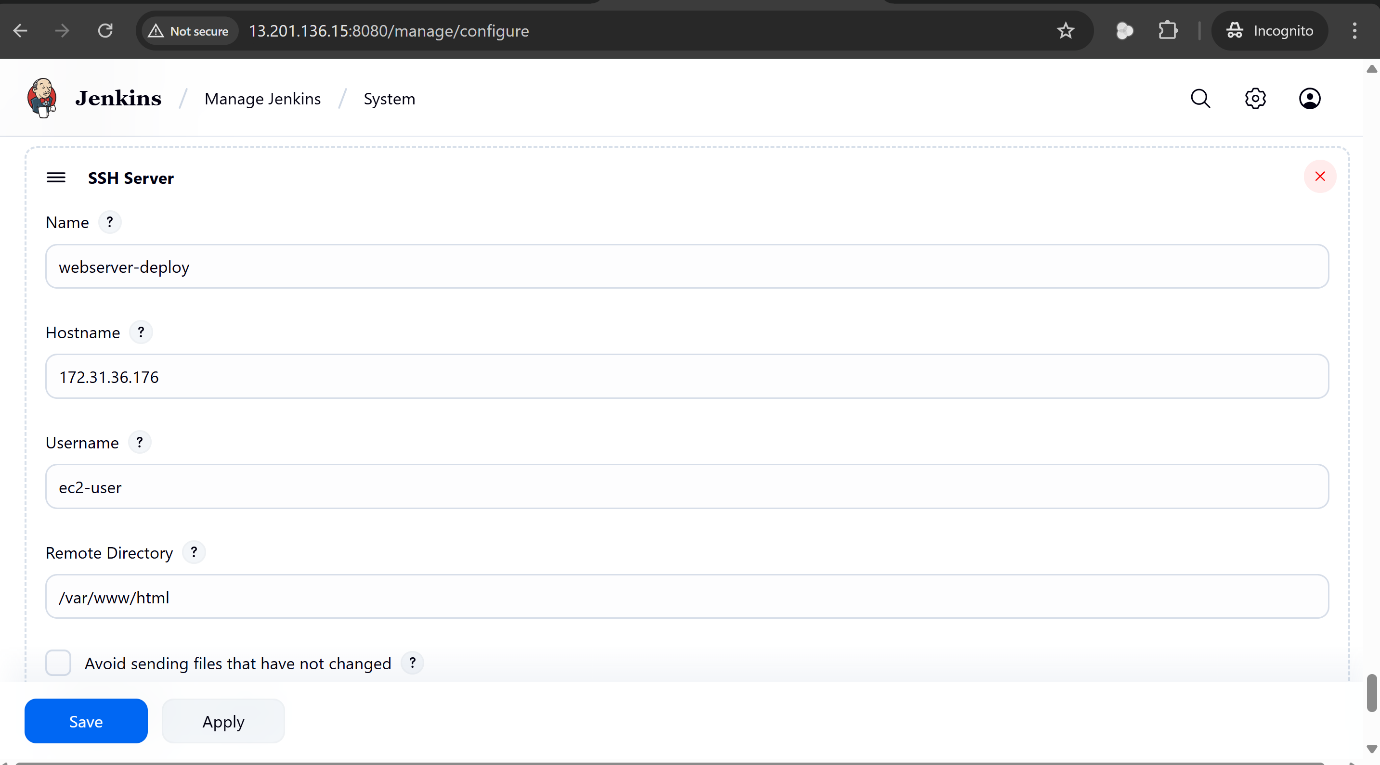
Authenticate github and both ec2 instance with Jenkins-

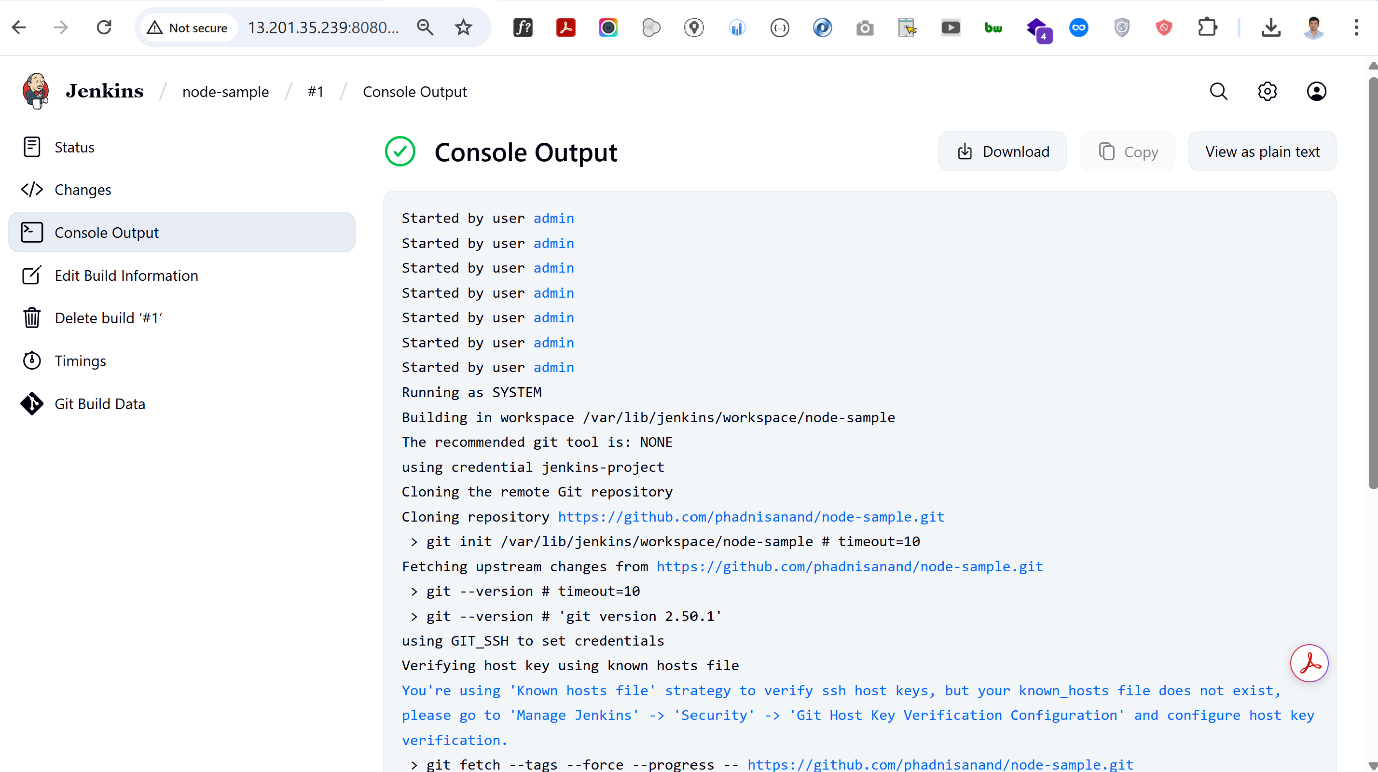
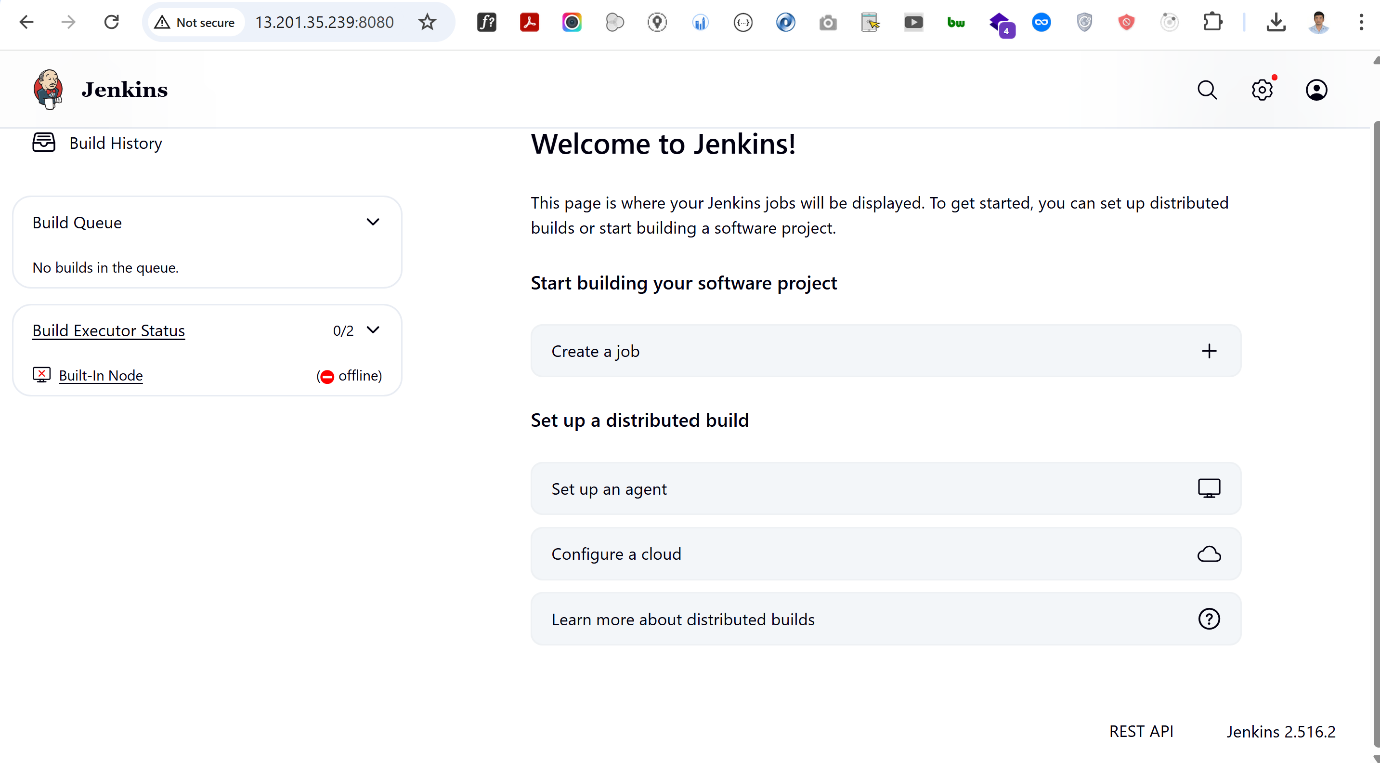
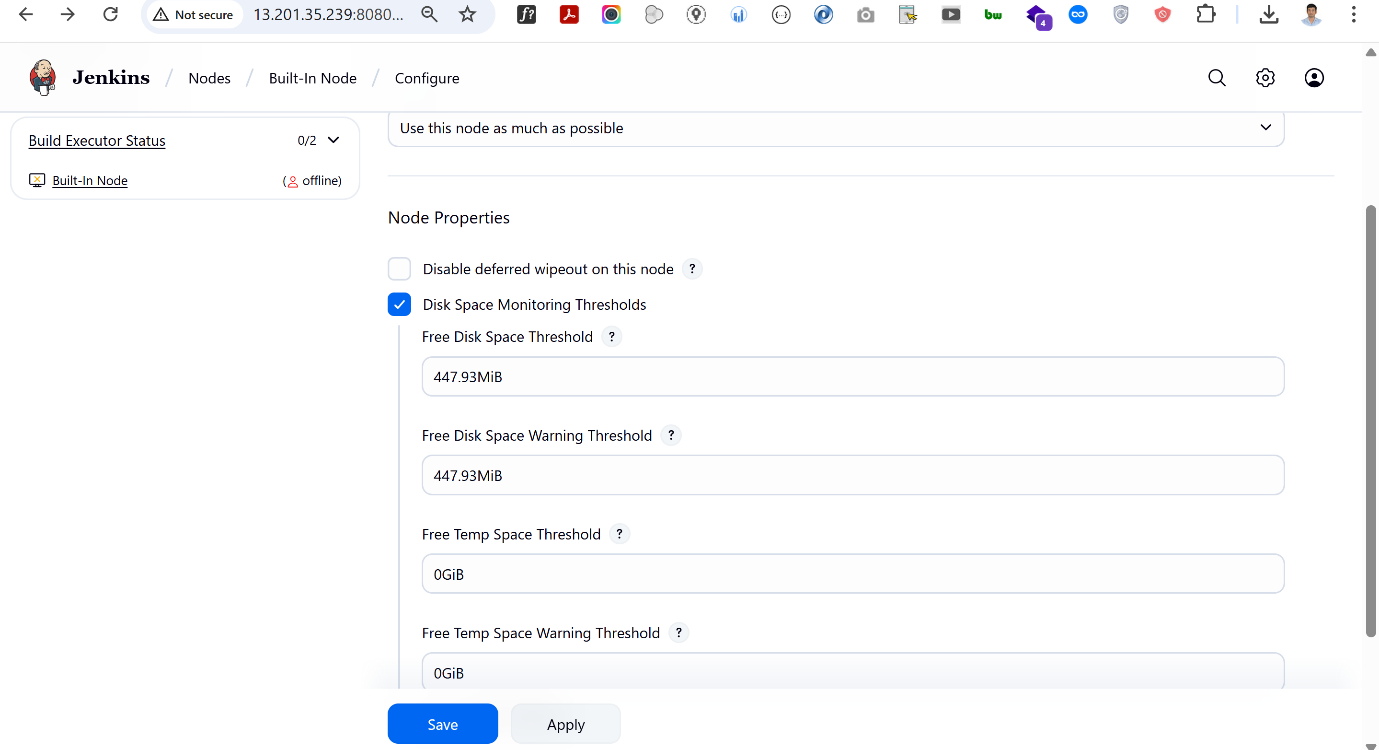
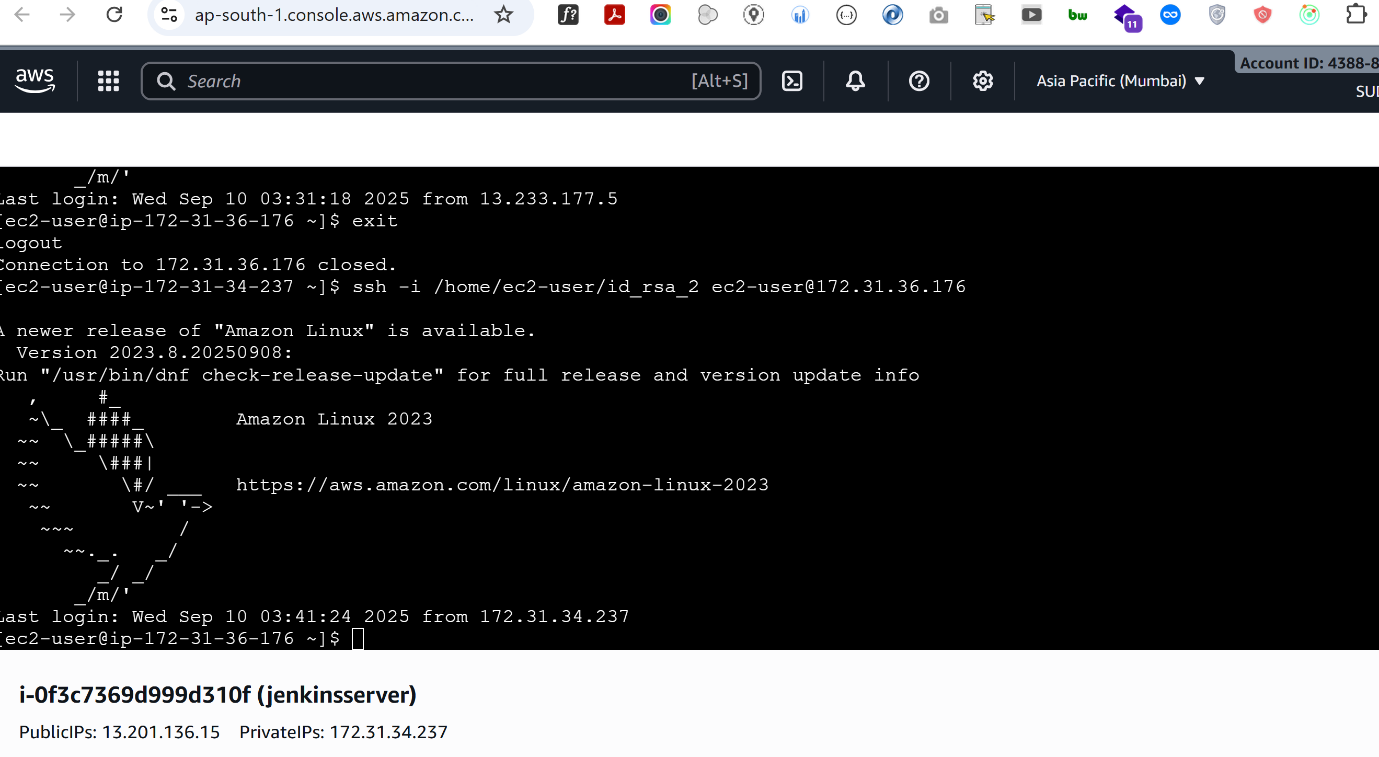
ssh-keygen -t rsa -b 4096 -C "jenkins-to-webserver"

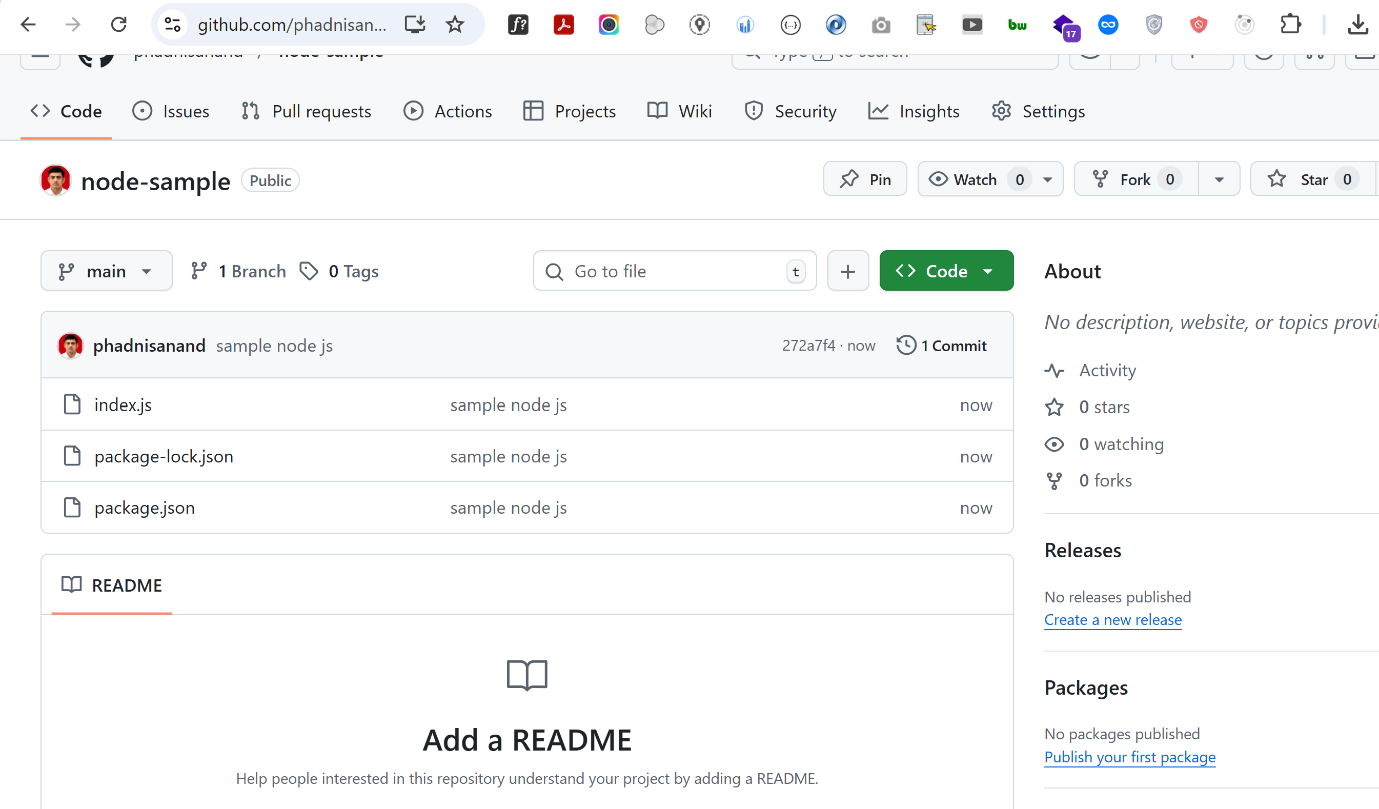
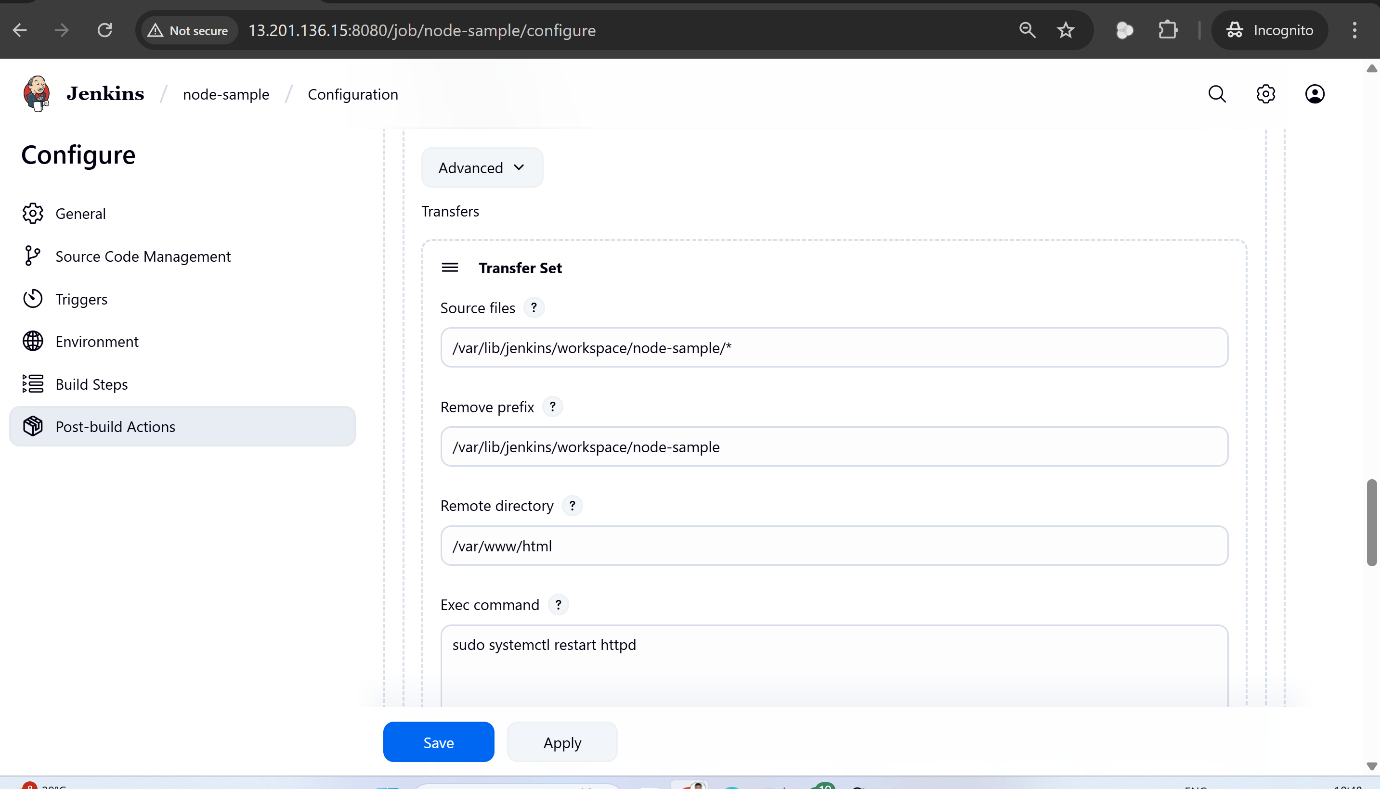
ssh-copy-id -i /home/ec2-user/id\_rsa\_2.pub ec2-user@172.31.36.176

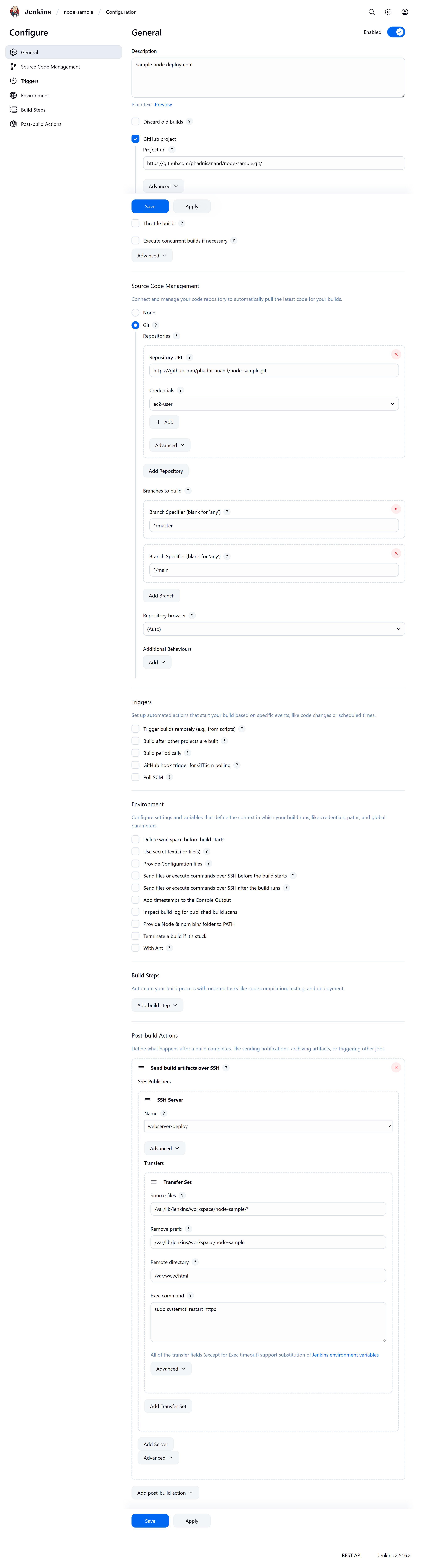
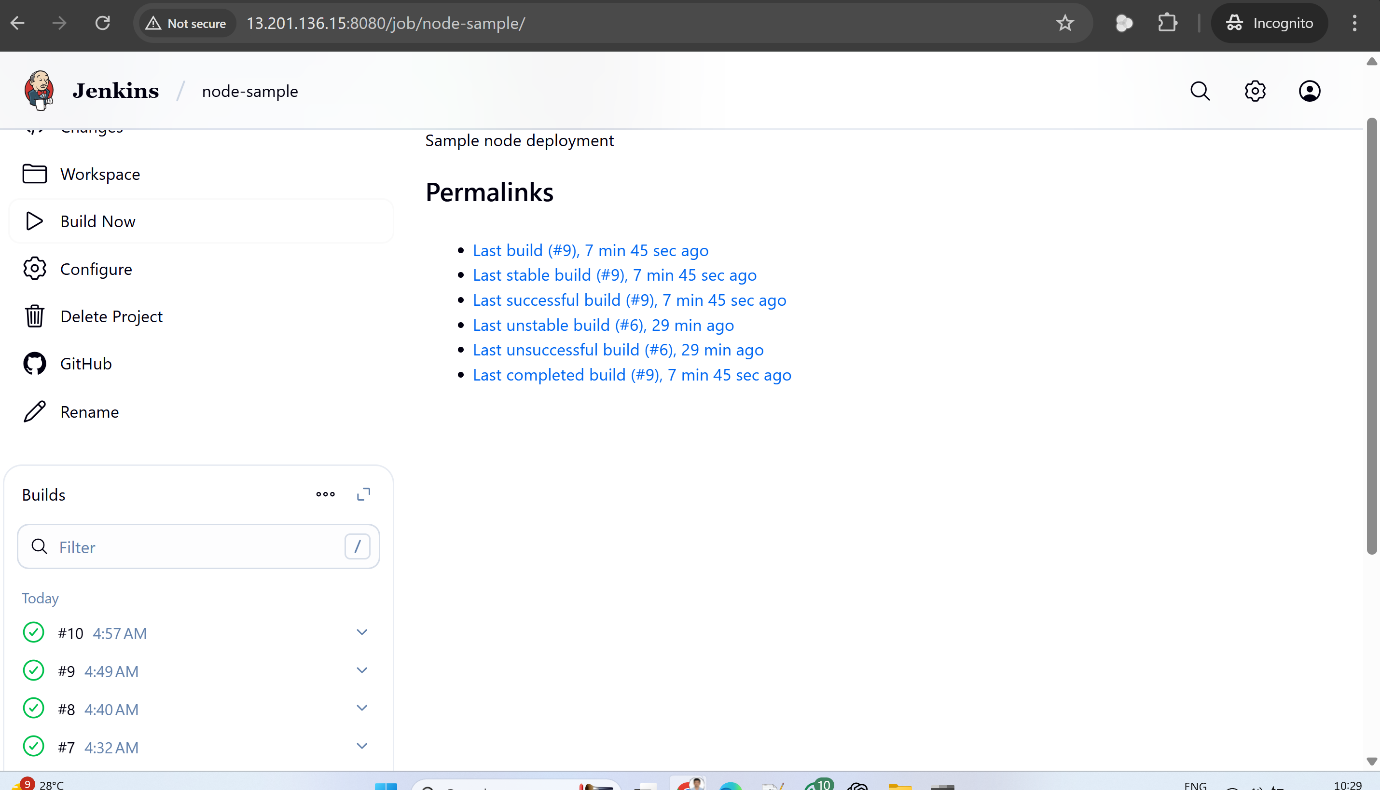
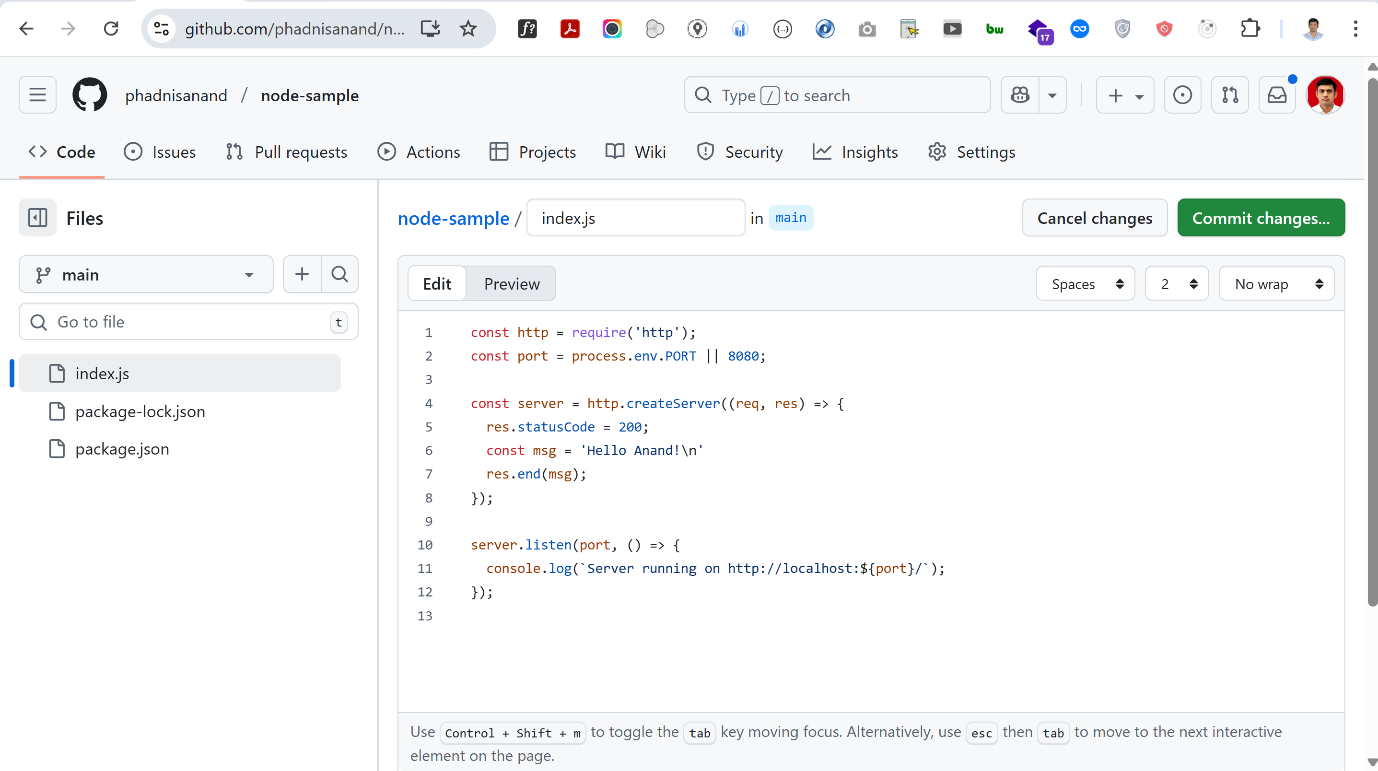
scp -i /home/ec2-user/id\_rsa\_2 /var/lib/jenkins/workspace/node-sample/\* ec2-user@172.31.36.176:/var/www/html

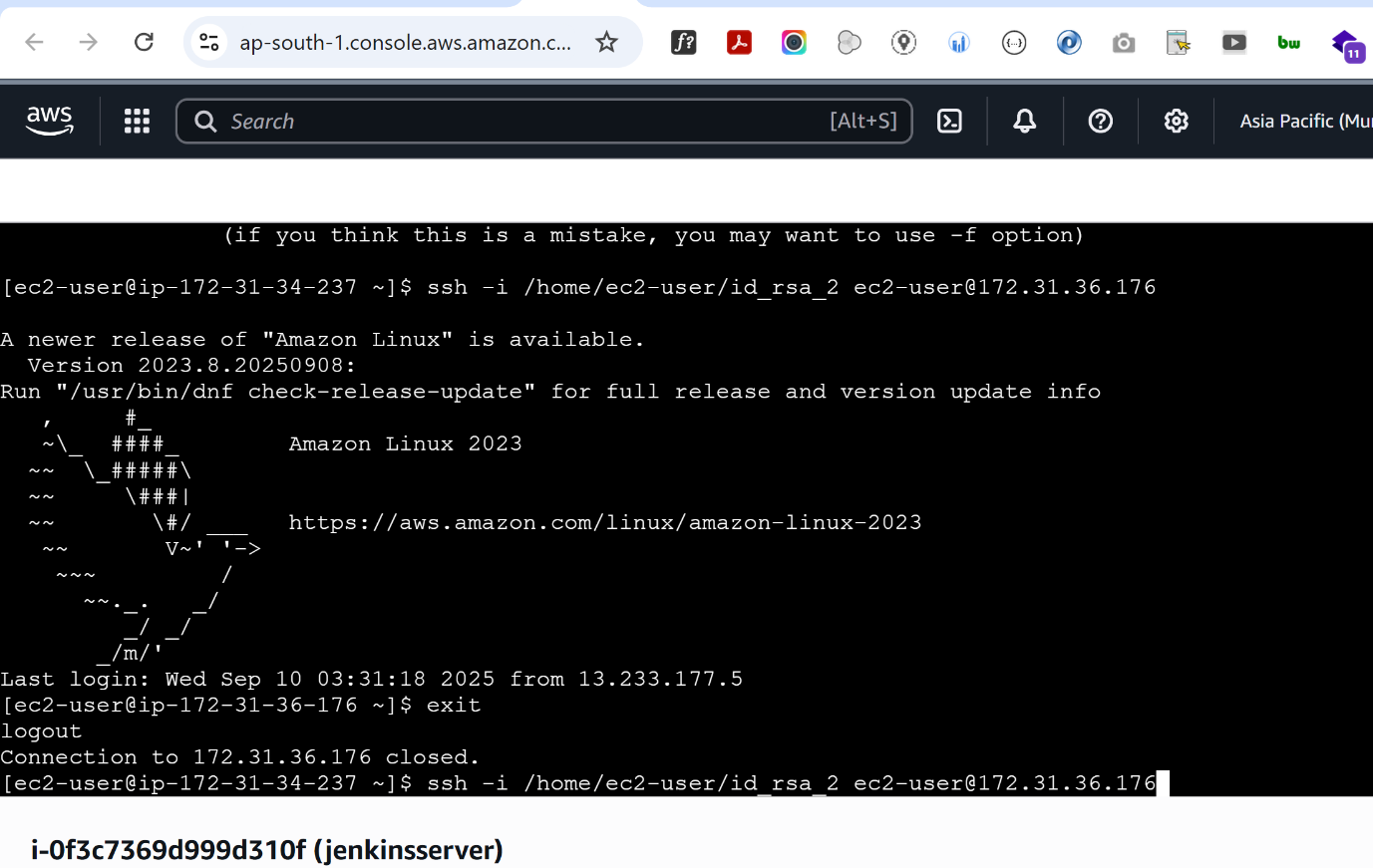
 









Configured Web Server EC2

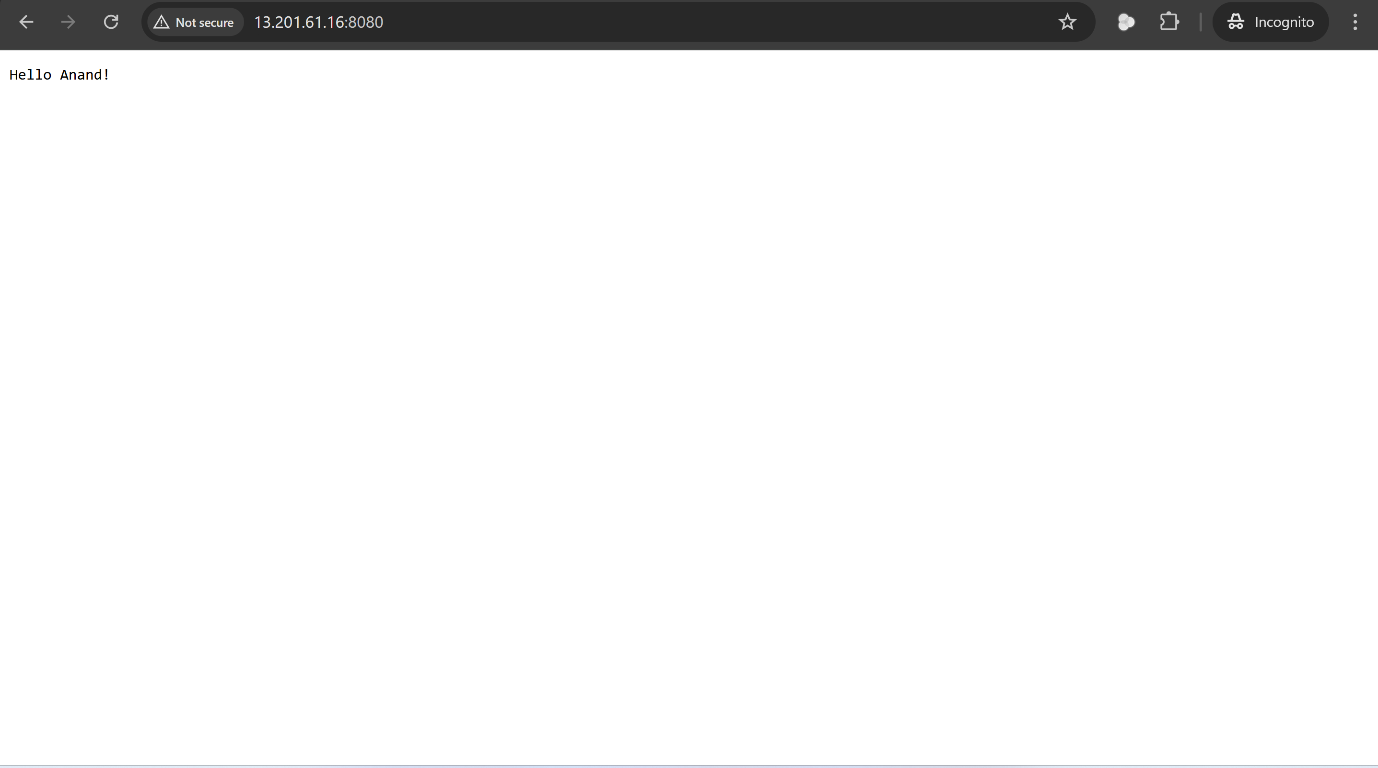
sudo yum update -y

sudo yum install httpd -y

sudo systemctl enable httpd

sudo systemctl start httpd

installed node js also on Web Server EC2 instance

Final Output -

Reference-

<https://medium.com/@mudasirhaji/complete-step-by-step-jenkins-cicd-with-github-integration-aae3961b6e33>

<https://medium.com/@allakondasandeep246/deploying-a-node-js-application-with-jenkins-on-aws-ec2-cfa3c28a5573>

<https://medium.com/@ahmad.almezaal/implementing-ci-cd-pipeline-with-jenkins-and-aws-ec2-part-1-setting-up-jenkins-119fa9a9e935>