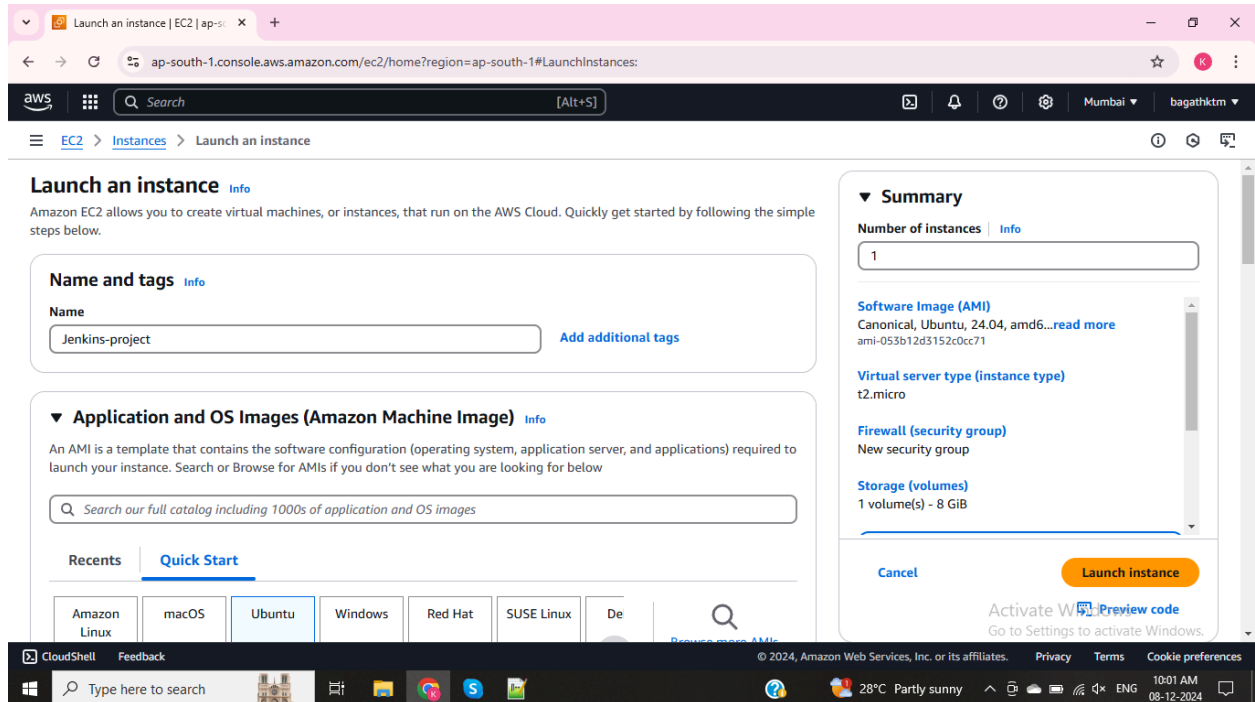
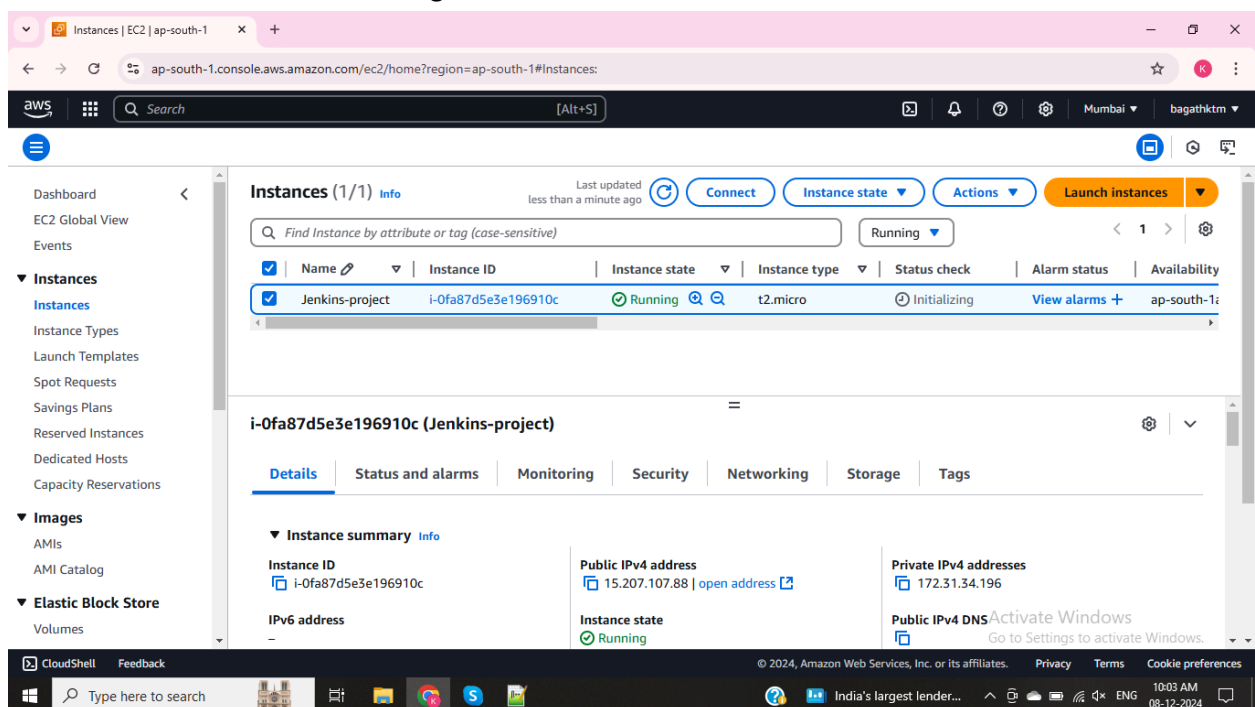


DevOps Project - Jenkins pipeline, Github, In AWS using EC2 instance and Email configuration

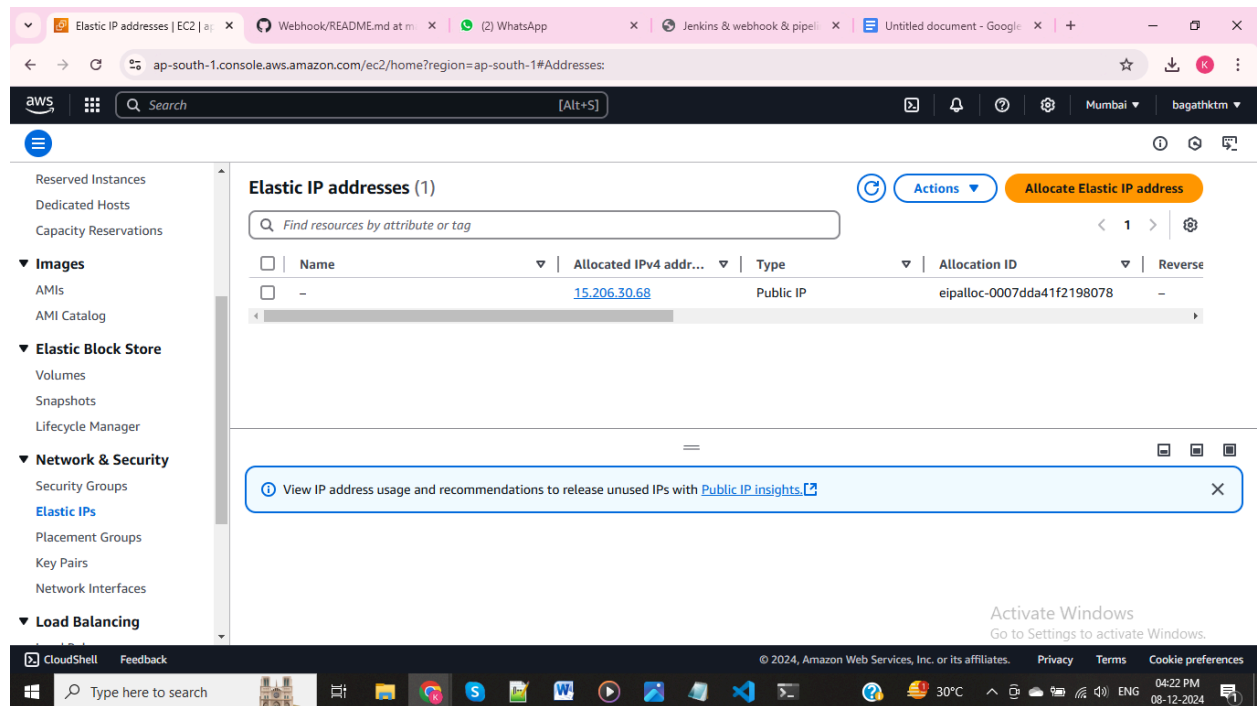
Creating an EC2 instance --launch instance



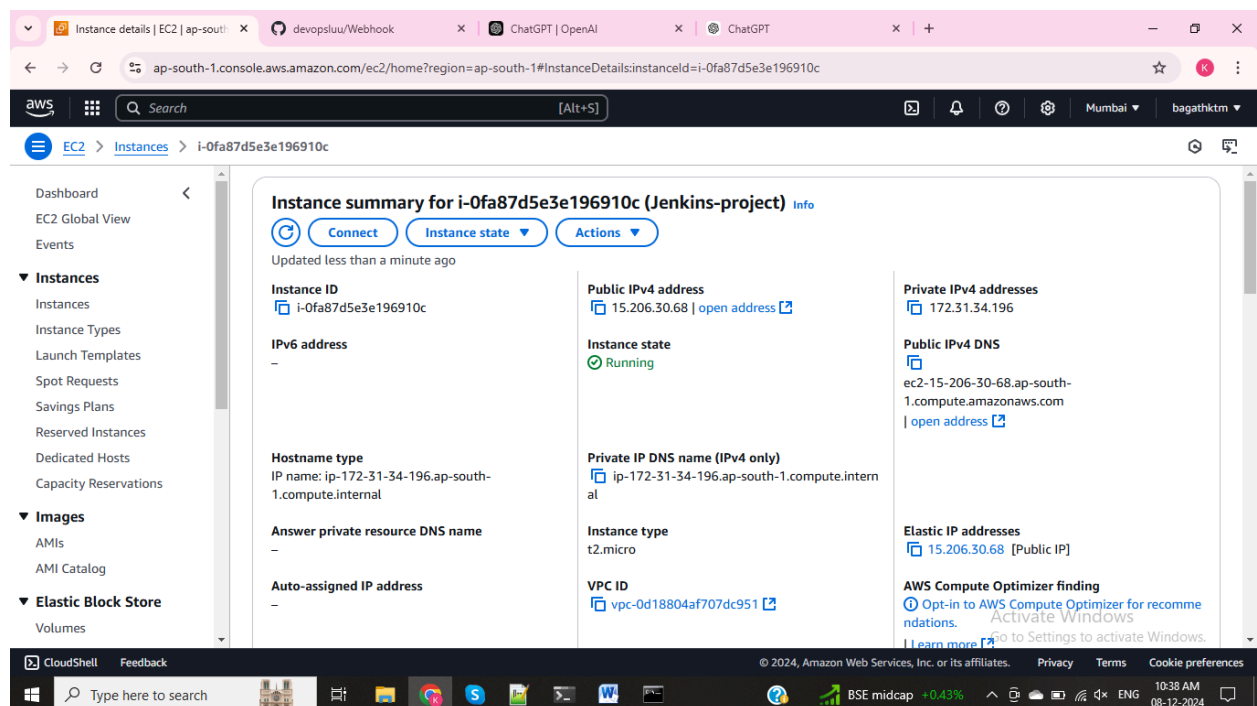
Instance started with running status and connected with terminal



Manually created Elastic IP and associated with EC2 instance



Elastic Ip associated and it shows in EC2 instance



In EC2 instance installing Git and Jenkins

```
ubuntu@ip-172-31-34-196: ~$ git --version
git version 2.43.0
ubuntu@ip-172-31-34-196:~$ jenkins --version
2.488
ubuntu@ip-172-31-34-196:~$ sudo systemctl status jenkins
Warning: The unit file, source configuration file or drop-ins of jenkins.service changed on disk. Run 'systemctl daemon-reload' to reload units.
● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
   Active: active (running) since Sun 2024-12-08 10:14:30 UTC; 37min ago
     Main PID: 3980 (java)
       Tasks: 46 (Limit: 1130)
      Memory: 546.8M (peak: 598.6M)
         CPU: 1min 13.348s
        CGroup: /system.slice/jenkins.service
               └─3980 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Dec 08 10:20:47 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:20:47.454+0000 [id=14] WARNING o.k.s.BytecodeReadingParanamer#lookupPar
Dec 08 10:20:47 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:20:47.461+0000 [id=14] WARNING o.k.s.BytecodeReadingParanamer#lookupPar
Dec 08 10:20:47 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:20:47.906+0000 [id=85] WARNING o.k.s.BytecodeReadingParanamer#lookupPar
Dec 08 10:20:47 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:20:47.921+0000 [id=20] WARNING o.k.s.BytecodeReadingParanamer#lookupPar
Dec 08 10:20:51 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:20:51.613+0000 [id=19] WARNING o.k.s.BytecodeReadingParanamer#lookupPar
Dec 08 10:28:59 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:28:59.304+0000 [id=61] INFO h.p.b.g.GlobalTimeOutConfiguration#configur
Dec 08 10:29:00 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:29:00.882+0000 [id=14] INFO h.p.b.g.GlobalTimeOutConfiguration#configur
Dec 08 10:34:24 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:34:24.083+0000 [id=61] INFO o.j.p.g.w.s.DefaultPushGHEventSubscriber#on
Dec 08 10:34:24 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:34:24.107+0000 [id=61] INFO o.j.p.g.w.s.DefaultPushGHEventSubscriber$1#
Dec 08 10:34:25 ip-172-31-34-196 jenkins[3980]: 2024-12-08 10:34:25.046+0000 [id=164] INFO c.c.jenkins.GitHubPushTrigger$1#run: SCM c
lines 1-21/21 (END)
```

Jenkins pipeline file created and pushed to Github repository with github token

```
ubuntu@ip-172-31-34-196: ~$ git push --set-upstream origin master
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

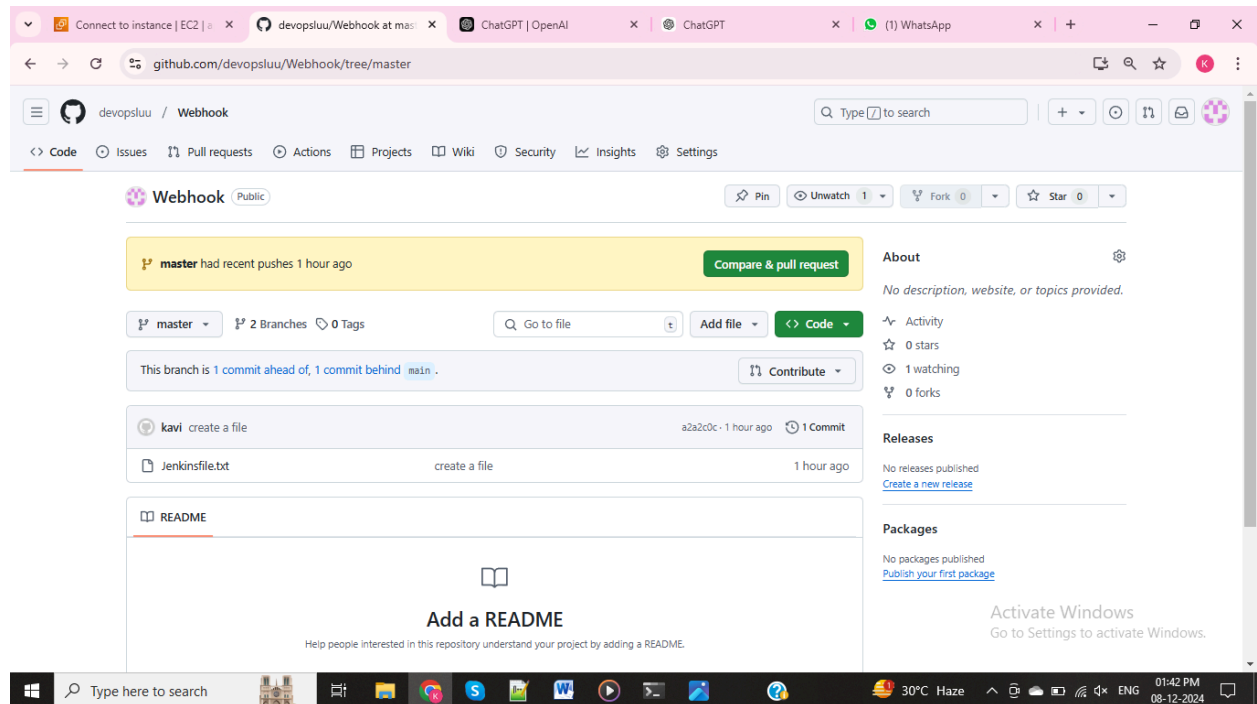
Please make sure you have the correct access rights
and the repository exists.
ubuntu@ip-172-31-34-196:~$ git remote -v
origin  git@github.com:devopsluu/Webhook.git (fetch)
origin  git@github.com:devopsluu/Webhook.git (push)
ubuntu@ip-172-31-34-196:~$ ls
Jenkinsfile  kavi
ubuntu@ip-172-31-34-196:~$ git push
fatal: The current branch master has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin master

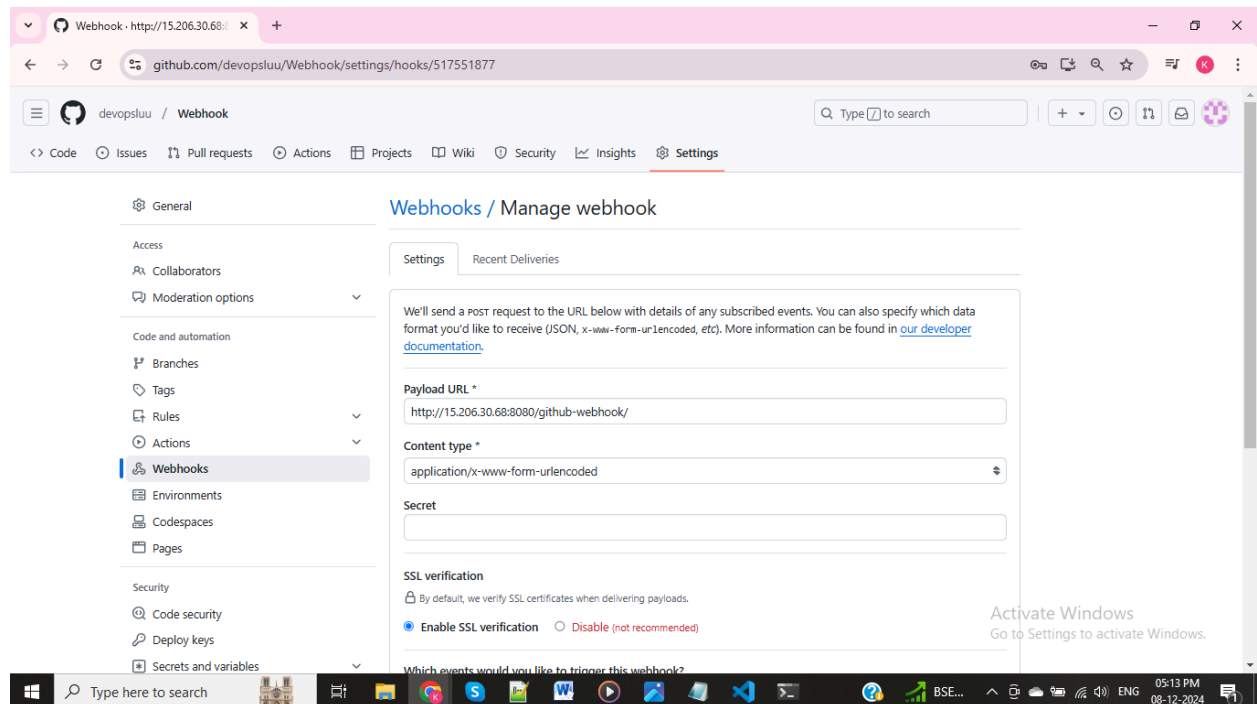
To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.
ubuntu@ip-172-31-34-196:~$ git push --set-upstream origin master
git@github.com: Permission denied (publickey).
fatal: Could not read from remote repository.

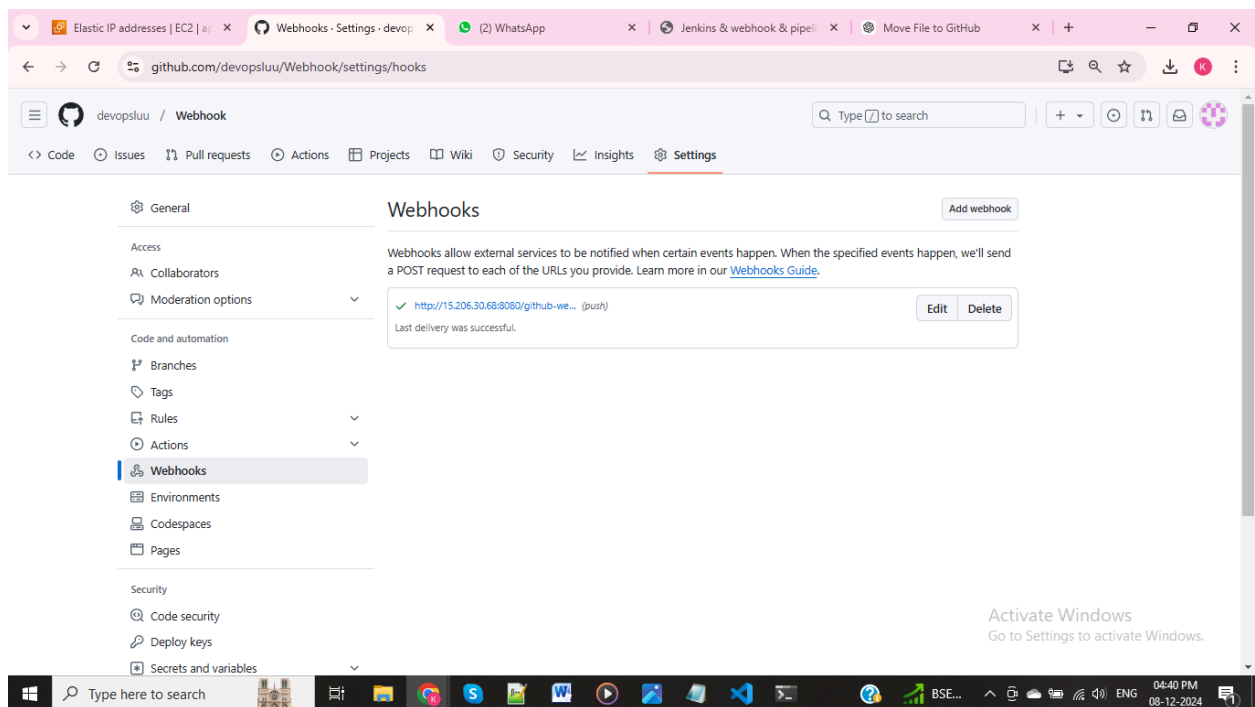
Please make sure you have the correct access rights
and the repository exists.
ubuntu@ip-172-31-34-196:~$ ssh -T git@github.com
git@github.com: Permission denied (publickey).
ubuntu@ip-172-31-34-196:~$ git remote set-url origin git@github.com:devopsluu/Webhook.git
ubuntu@ip-172-31-34-196:~$ git remote -v
origin  git@github.com:devopsluu/Webhook.git (fetch)
origin  git@github.com:devopsluu/Webhook.git (push)
ubuntu@ip-172-31-34-196:~$ git push -u origin main
error: src refspec main does not match any
```

In Github new repository created and output of jenkinsfile

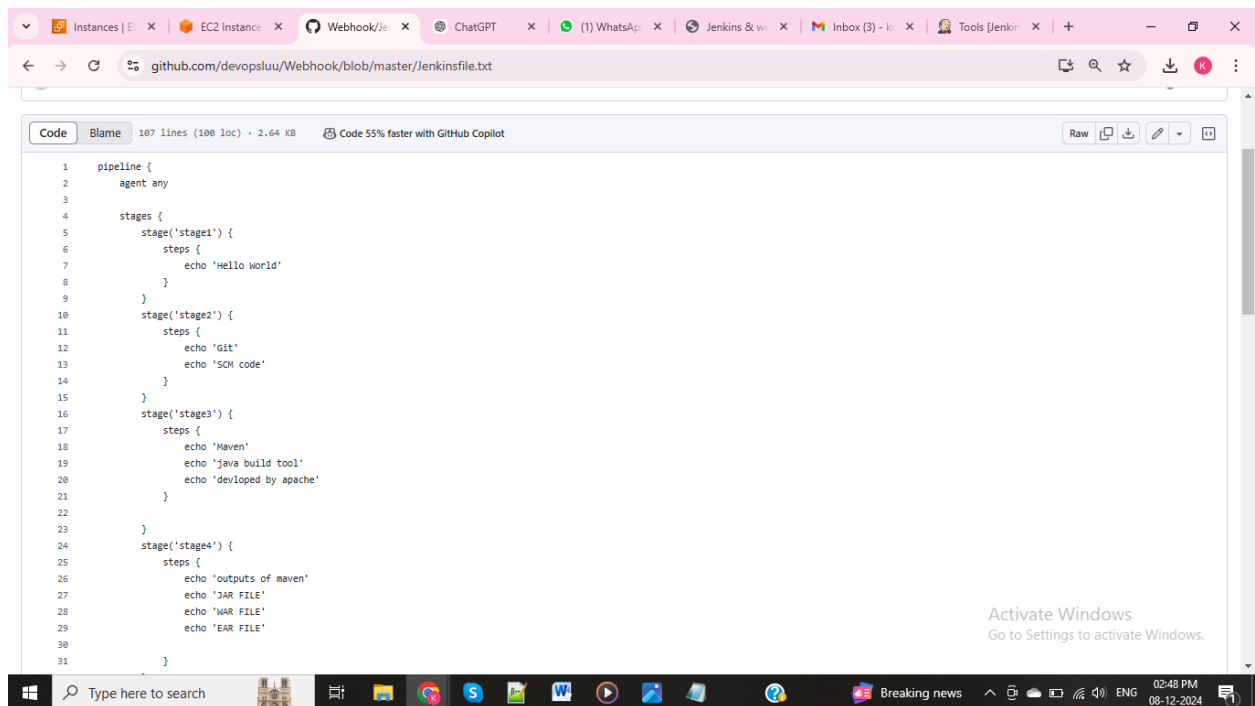


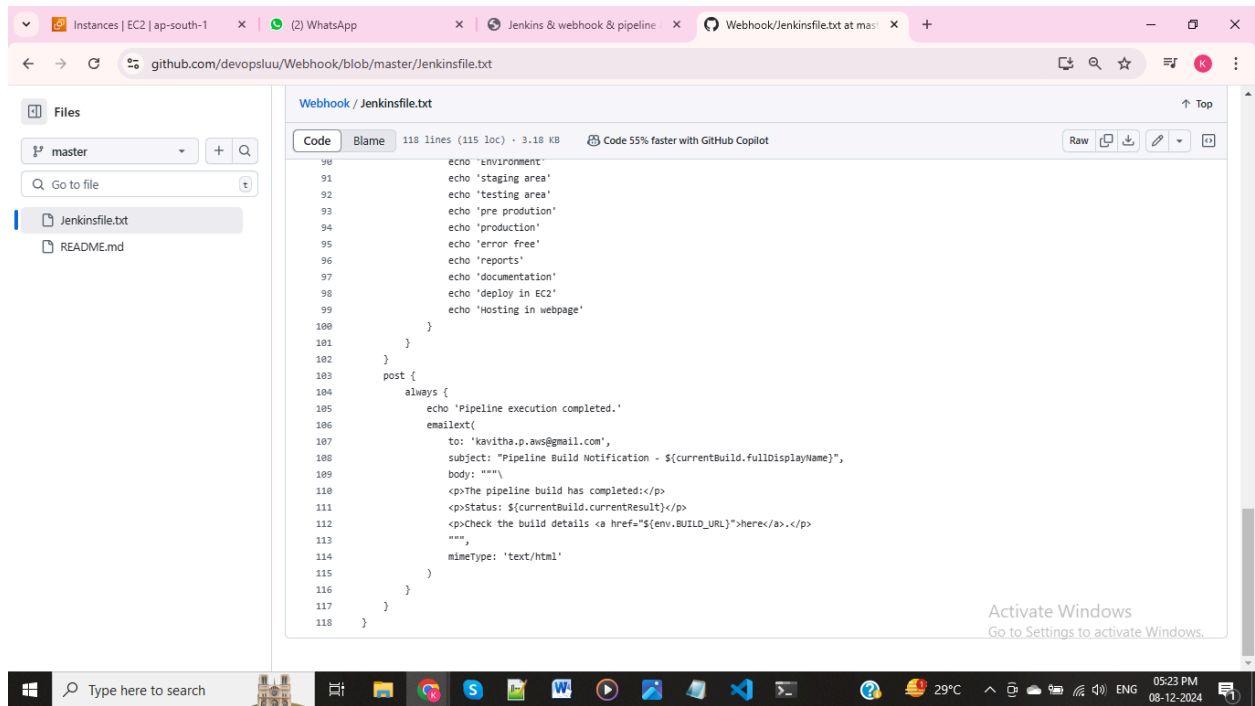
Webhook Configure with Jenkins to trigger automatically when change is there



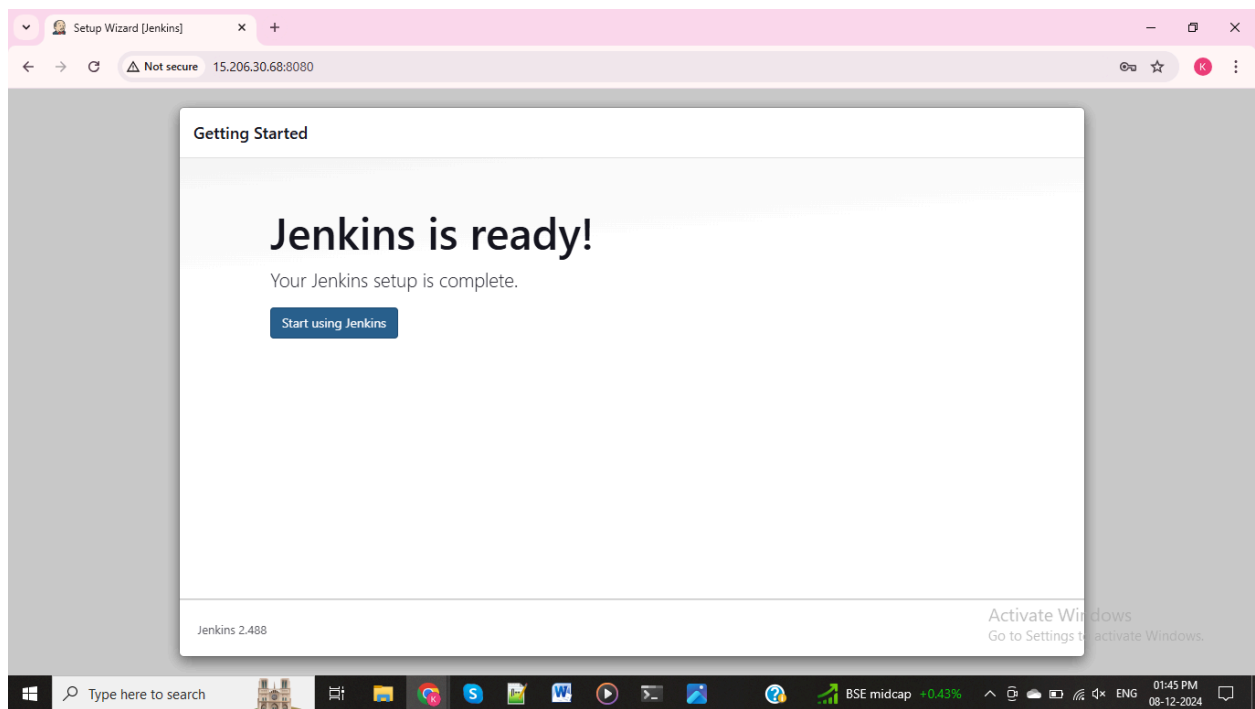


Jenkins pipeline script

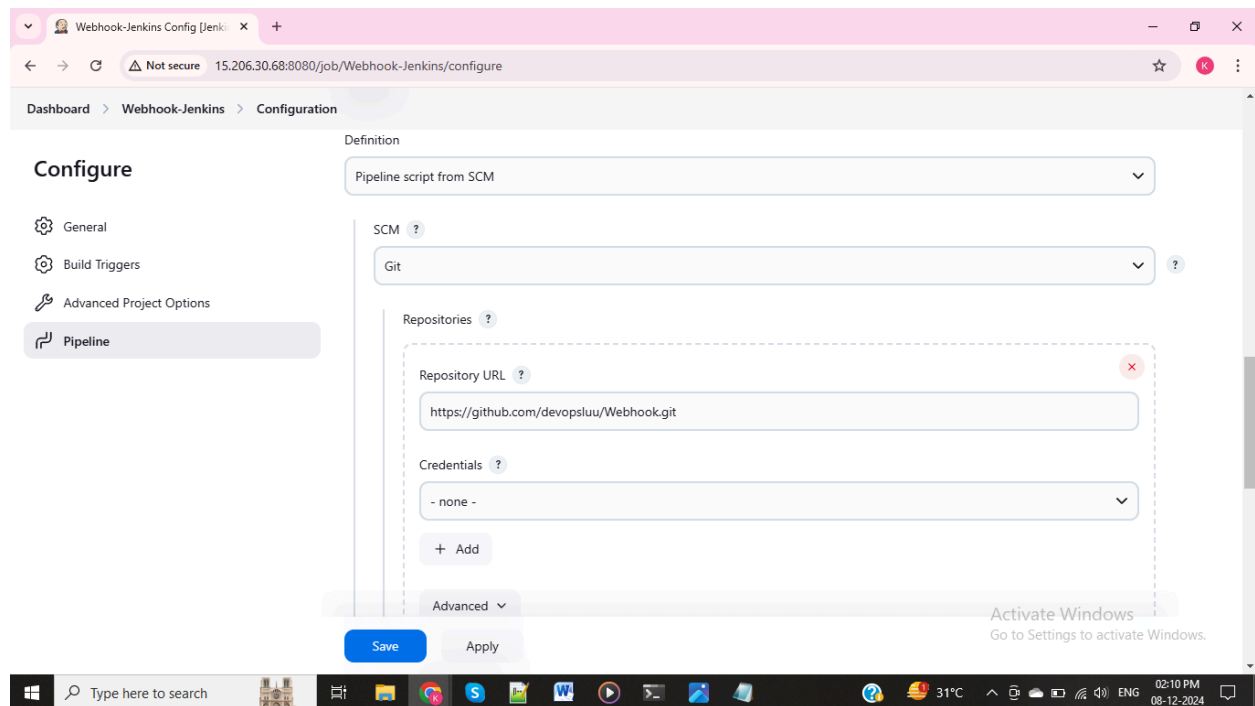




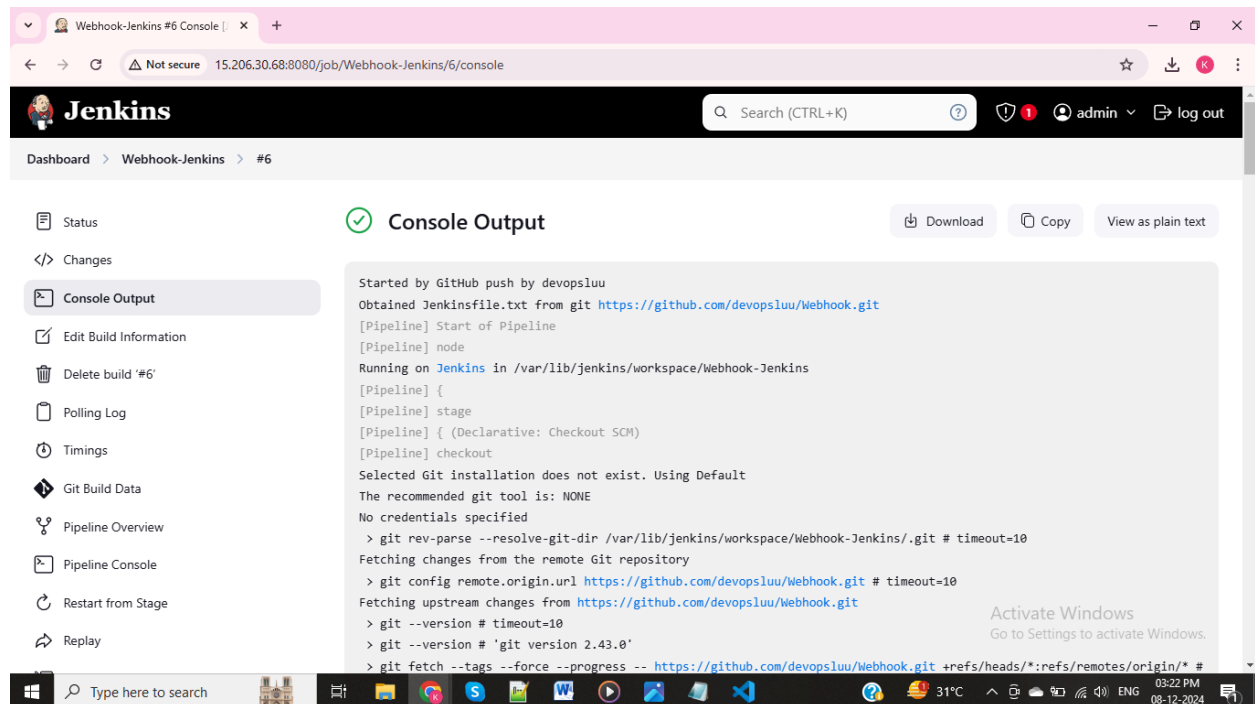
Jenkins started with Elastic Ip



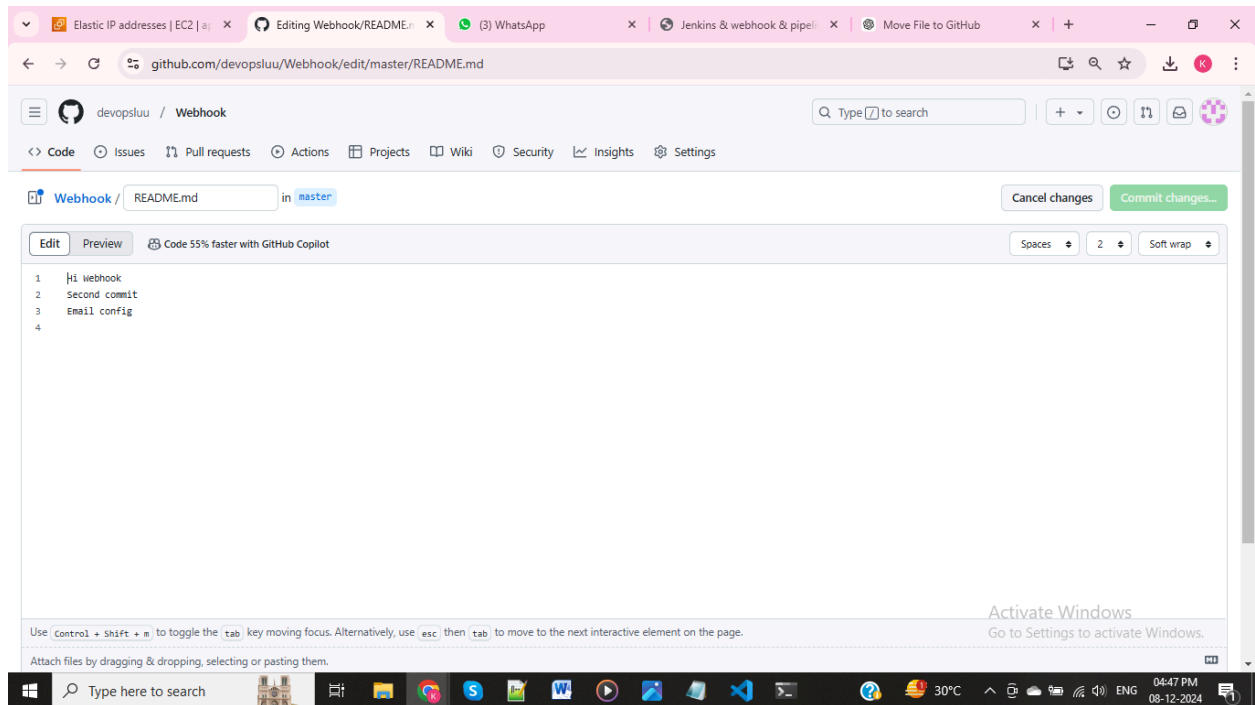
Create a Pipeline job and configure with pipeline script from SCM and select Github webhook triggers



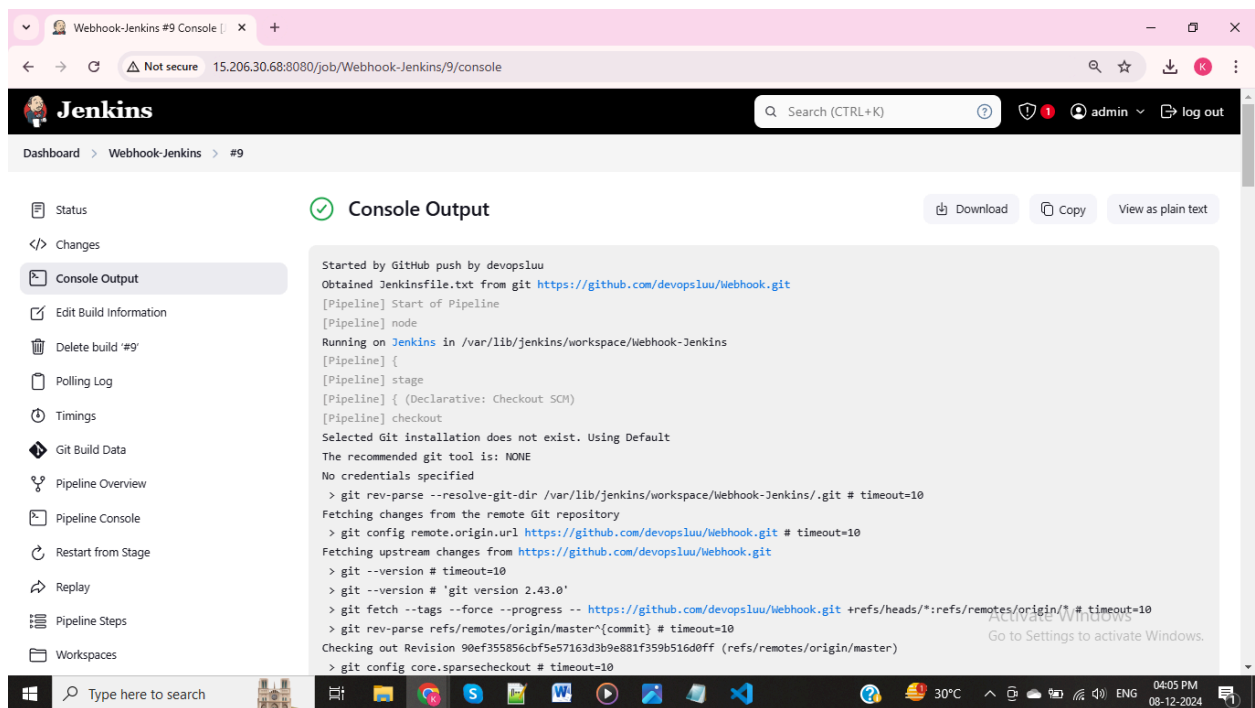
Build automatically with the help of webhook cron job



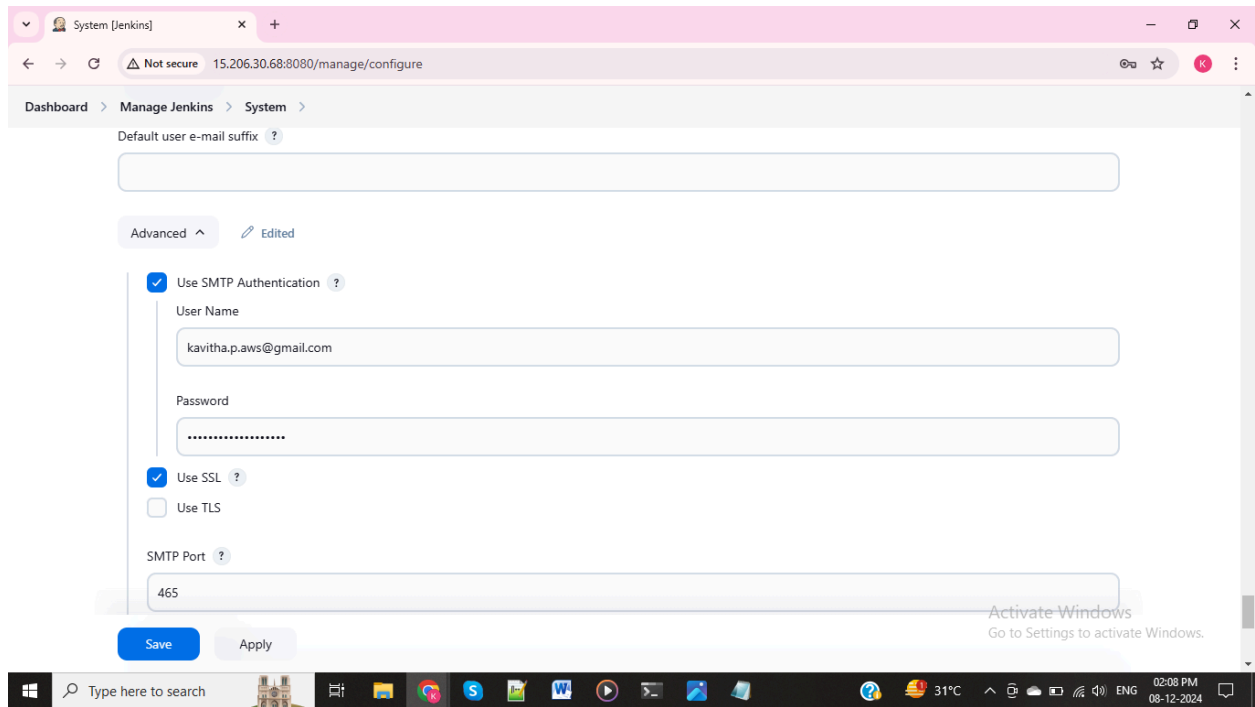
Second and third comment change in Git



Auto build started and its output



Jenkins and Email configure setting up



Email success build output

