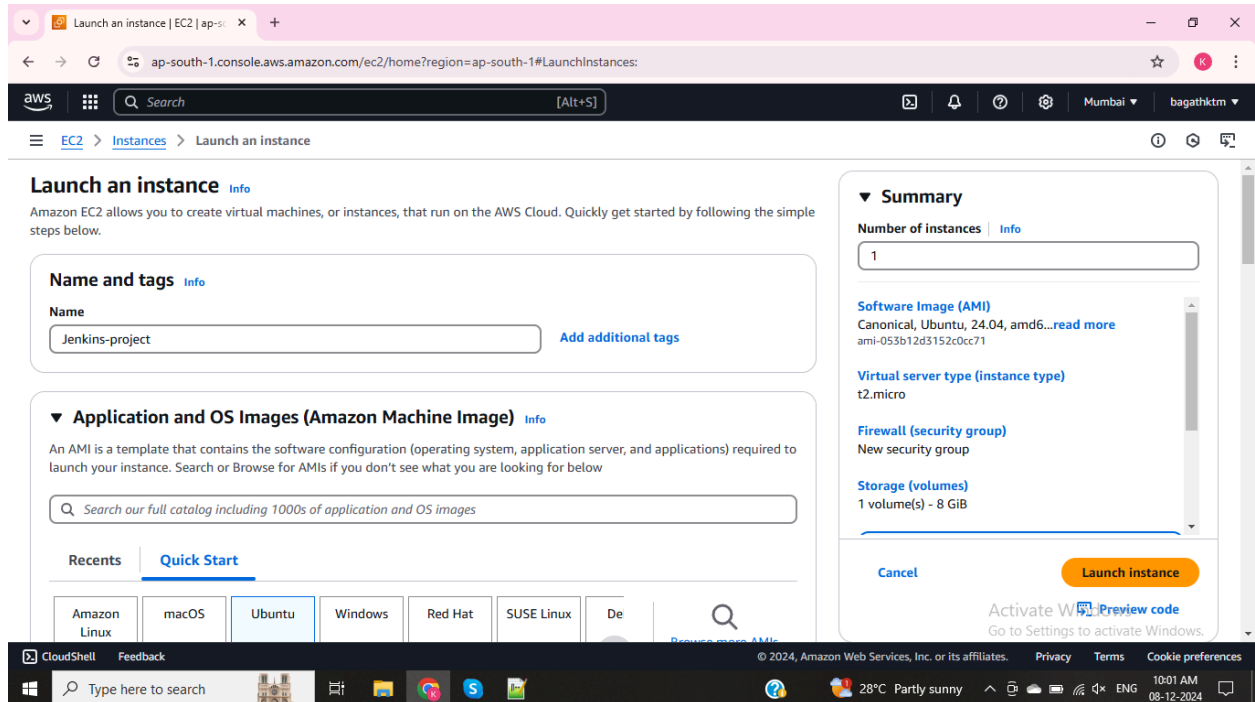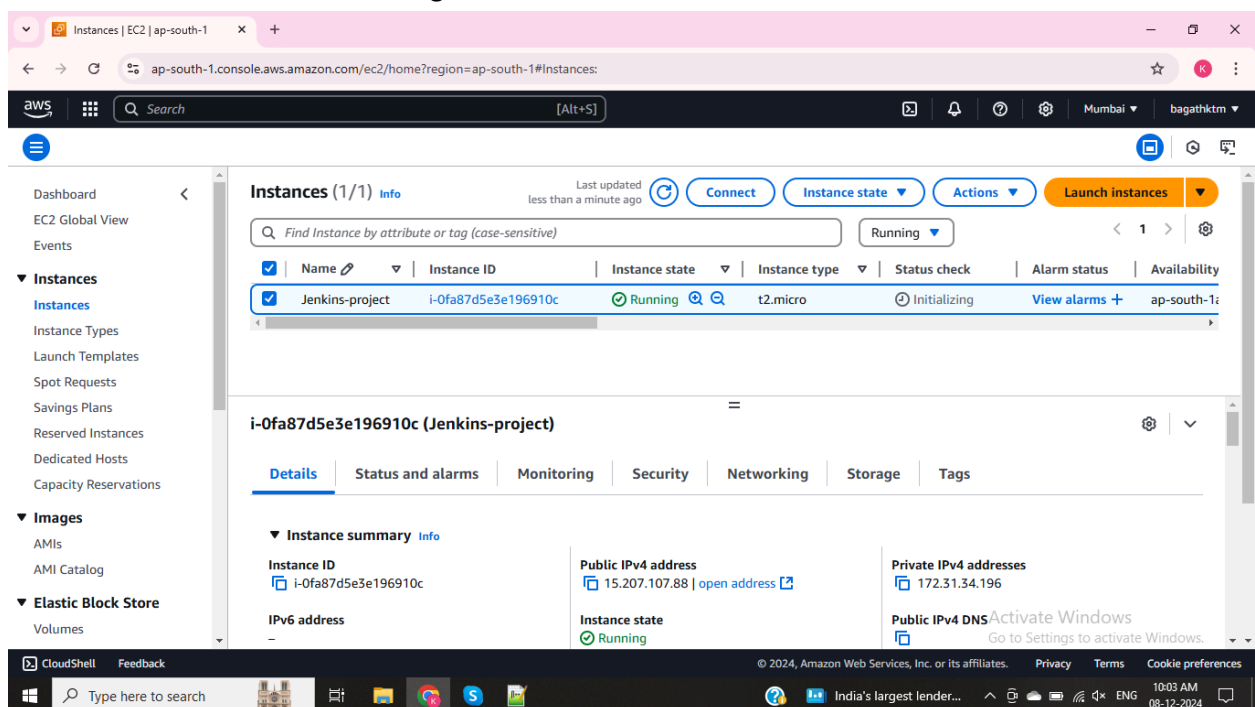# DevOps Project - Jenkins pipeline, Github, In AWS using EC2 instance and Email configuration
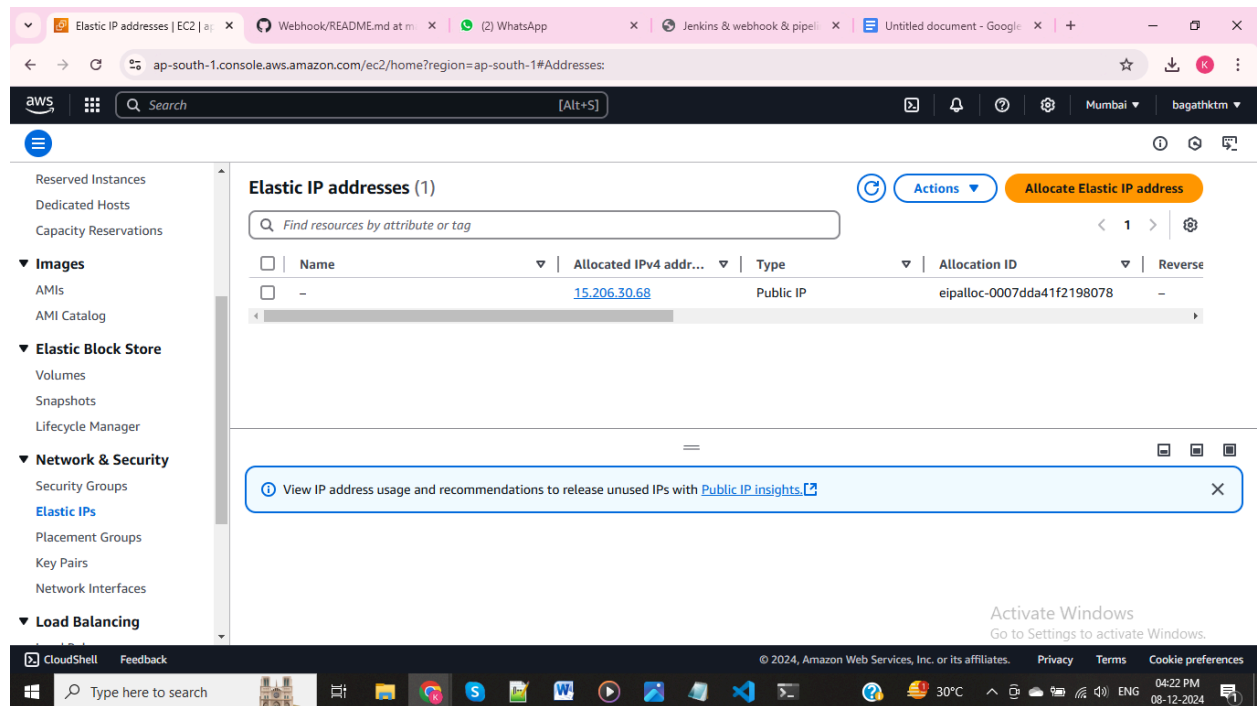
Creating an EC2 instance --launch instance
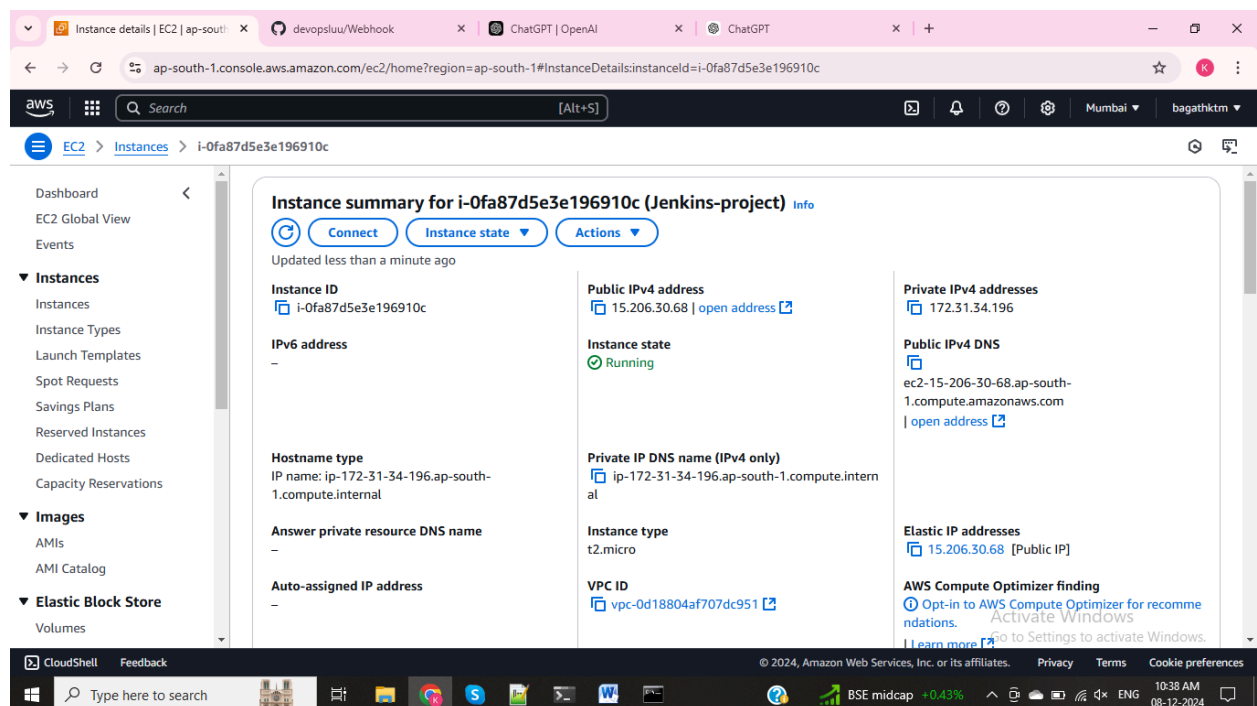

Instance started with running status and connected with terminal

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

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

In Github new repository created and output of jenkinsfile
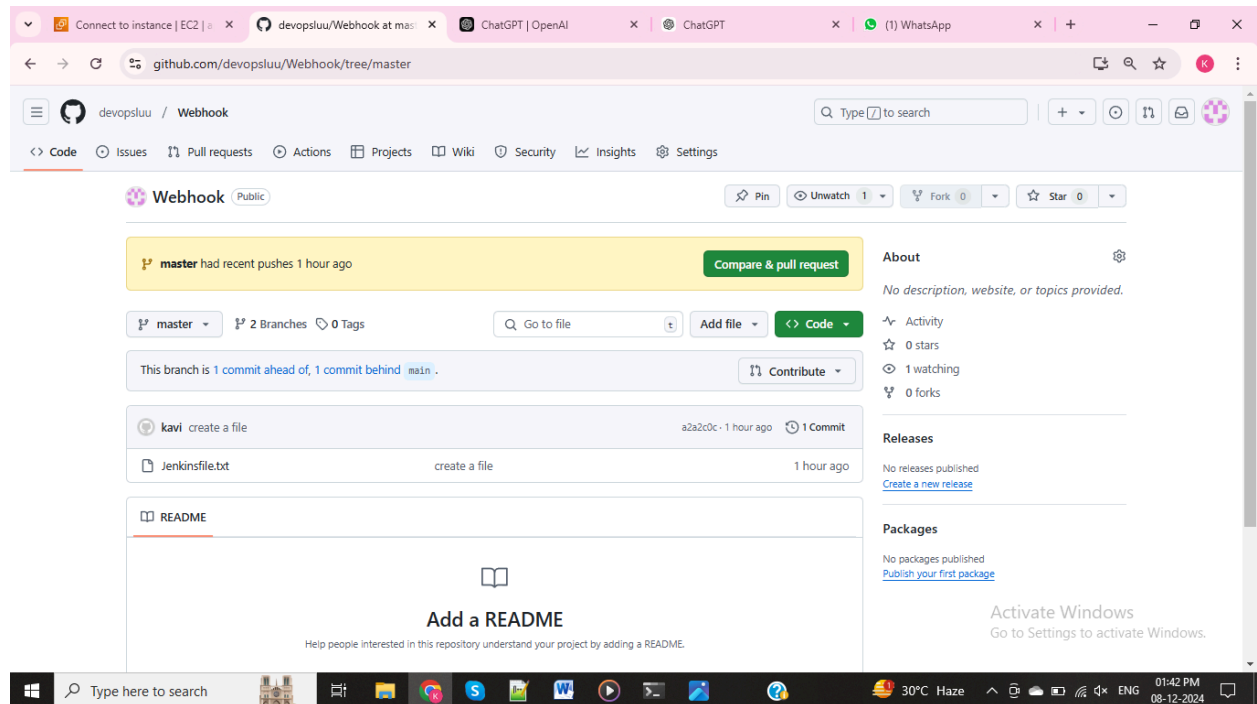
Webhook Configure with Jenkins to trigger automatically when change is there
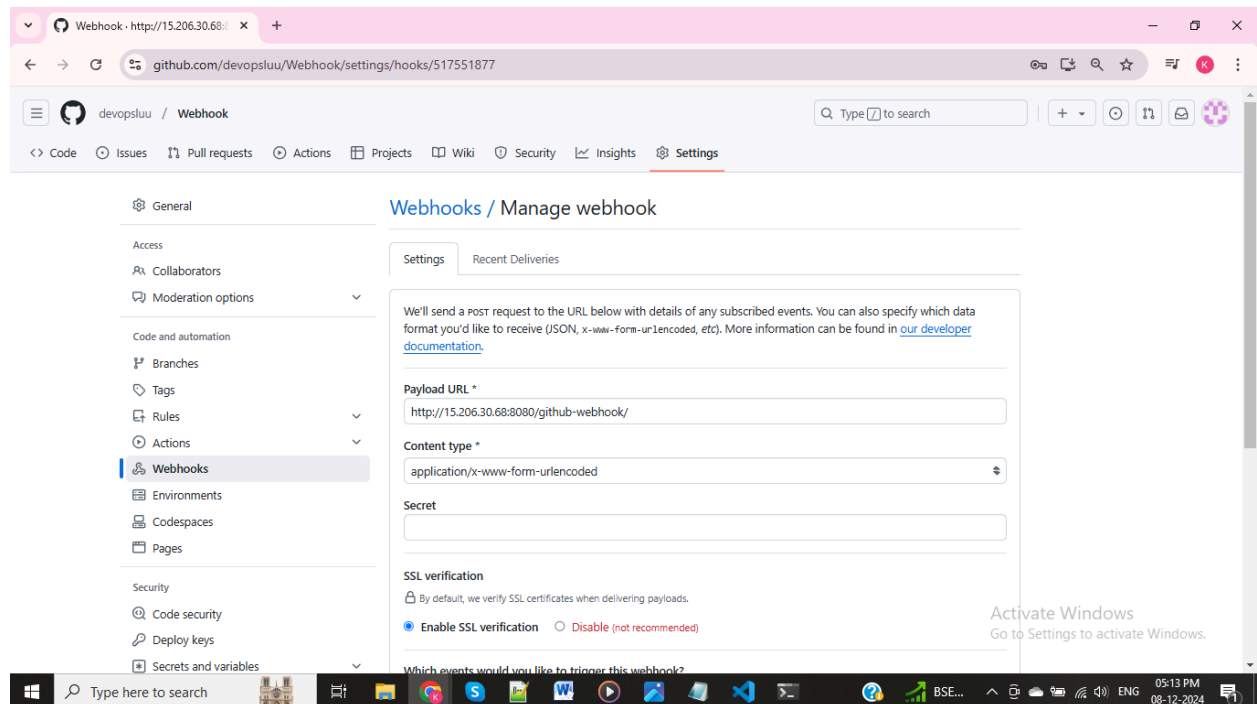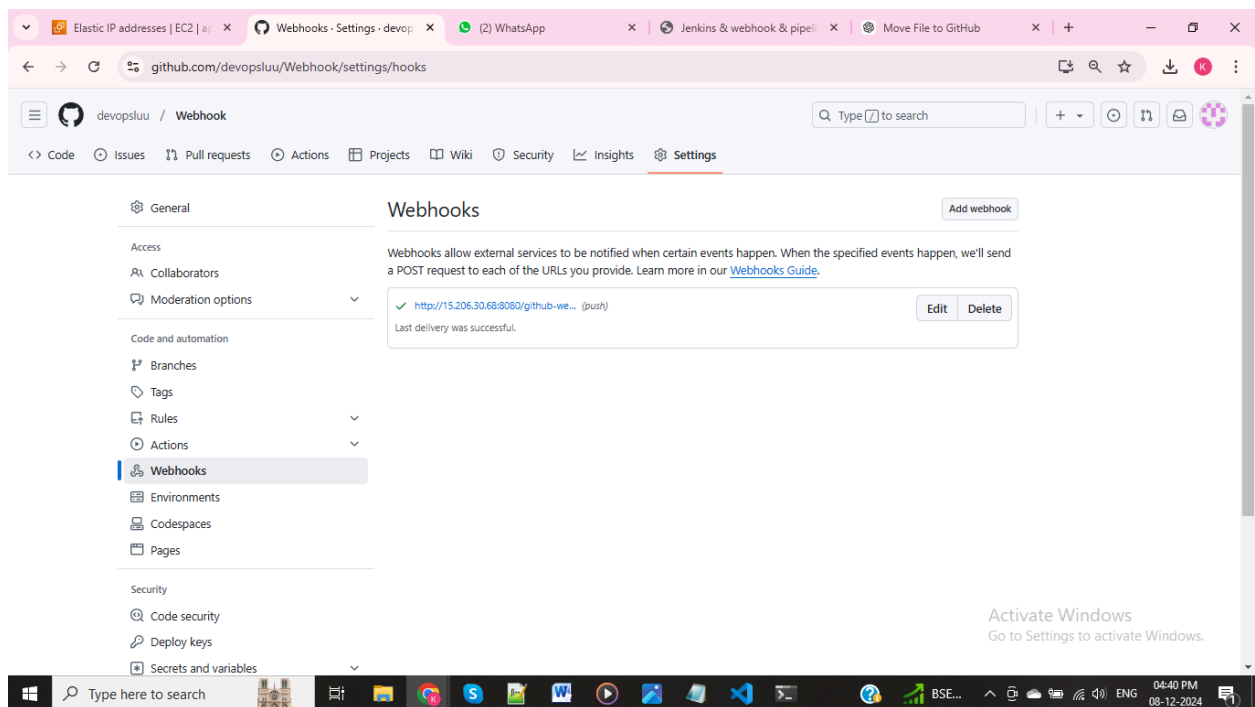
Jenkins pipeline script


```
pipeline {
    agent any

    stages {
        stage('stage1') {
            steps {
                echo 'Hello World'
            }
        }
        stage('stage2') {
            steps {
                echo 'Git'
                echo 'SCM code'
            }
        }
        stage('stage3') {
            steps {
                echo 'Maven'
                echo 'java build tool'
                echo 'devloped by apache'
            }
        }

        stage('stage4') {
            steps {
                echo 'outputs of maven'
                echo 'JAR FILE'
                echo 'WAR FILE'
                echo 'EAR FILE'

            }
        }
```

```
90          echo 'Environment'
91          echo 'staging area'
92          echo 'testing area'
93          echo 'pre prodution'
94          echo 'production'
95          echo 'error free'
96          echo 'reports'
97          echo 'documentation'
98          echo 'deploy in EC2'
99          echo 'Hosting in webpage'
100     }
101   }
102 }
103 post {
104   always {
105     echo 'Pipeline execution completed.'
106     emailext(
107       to: 'kavitha.p.aws@gmail.com',
108       subject: "Pipeline Build Notification - ${currentBuild.fullDisplayName}",
109       body: """\
110       <p>The pipeline build has completed:</p>
111       <p>Status: ${currentBuild.currentResult}</p>
112       <p>Check the build details <a href="${env.BUILD_URL}">here</a>.</p>
113       """,
114       mimeType: 'text/html'
115     )
116   }
117 }
118 }
```

Jenkins started with Elastic Ip

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins
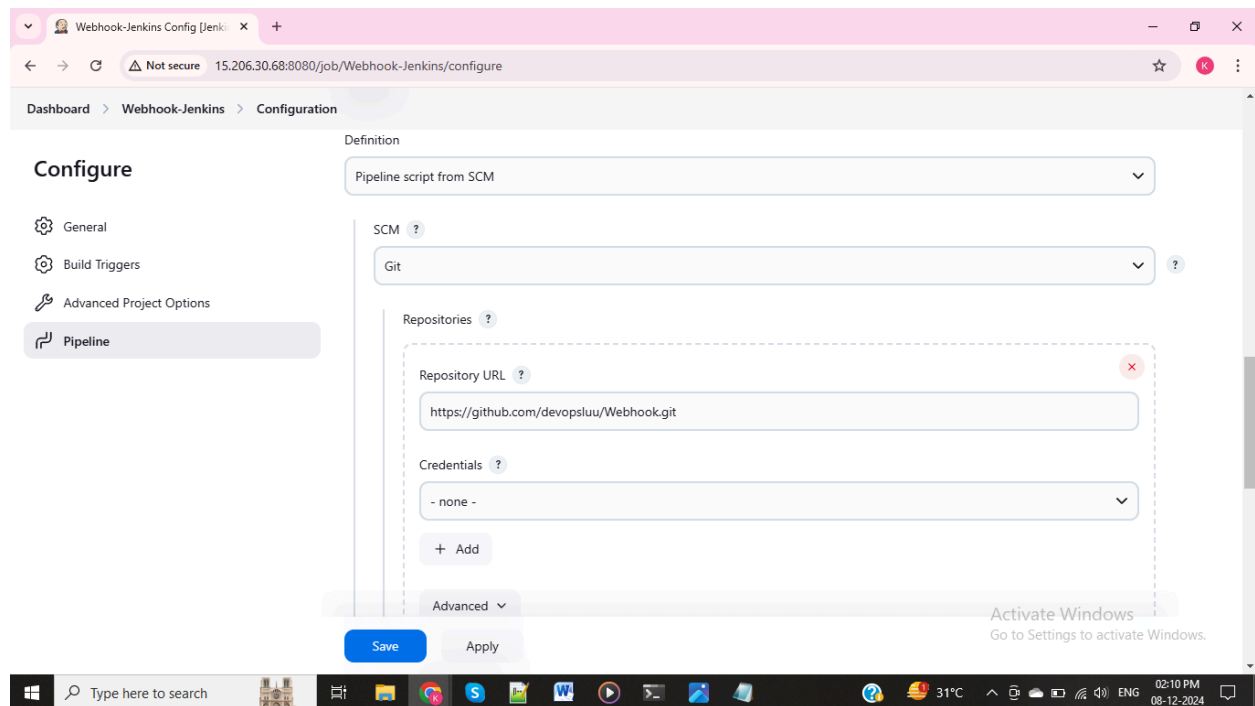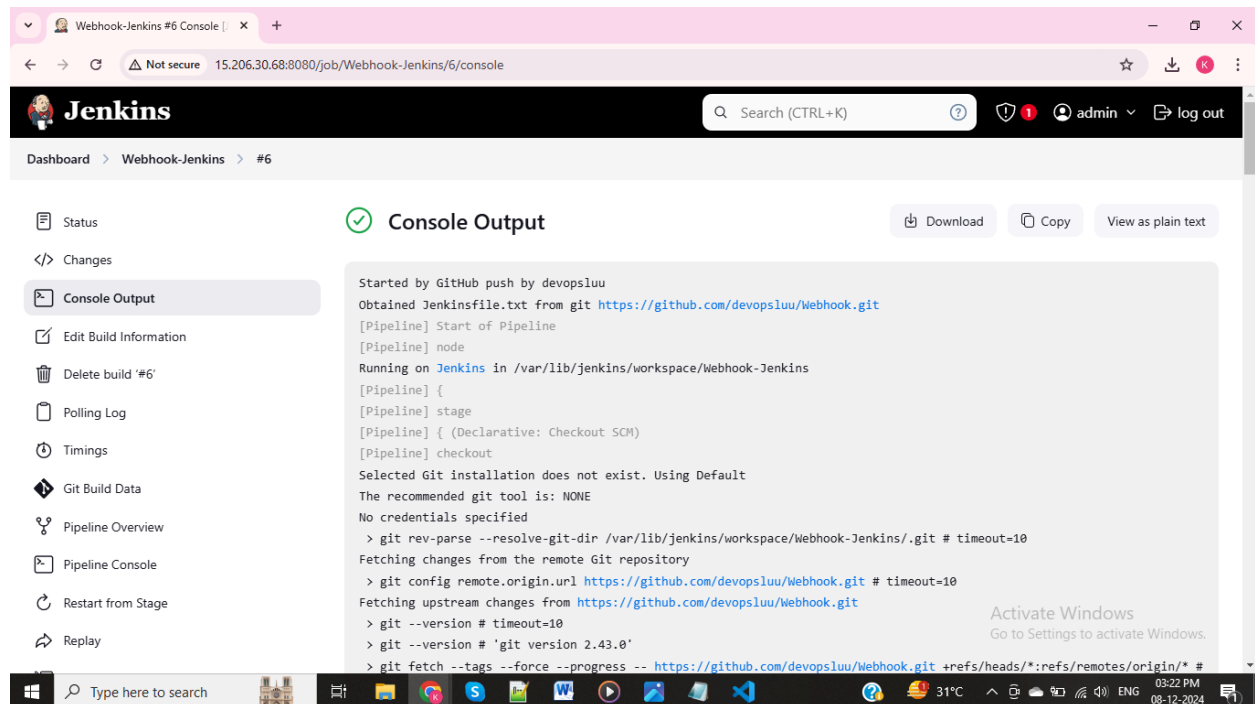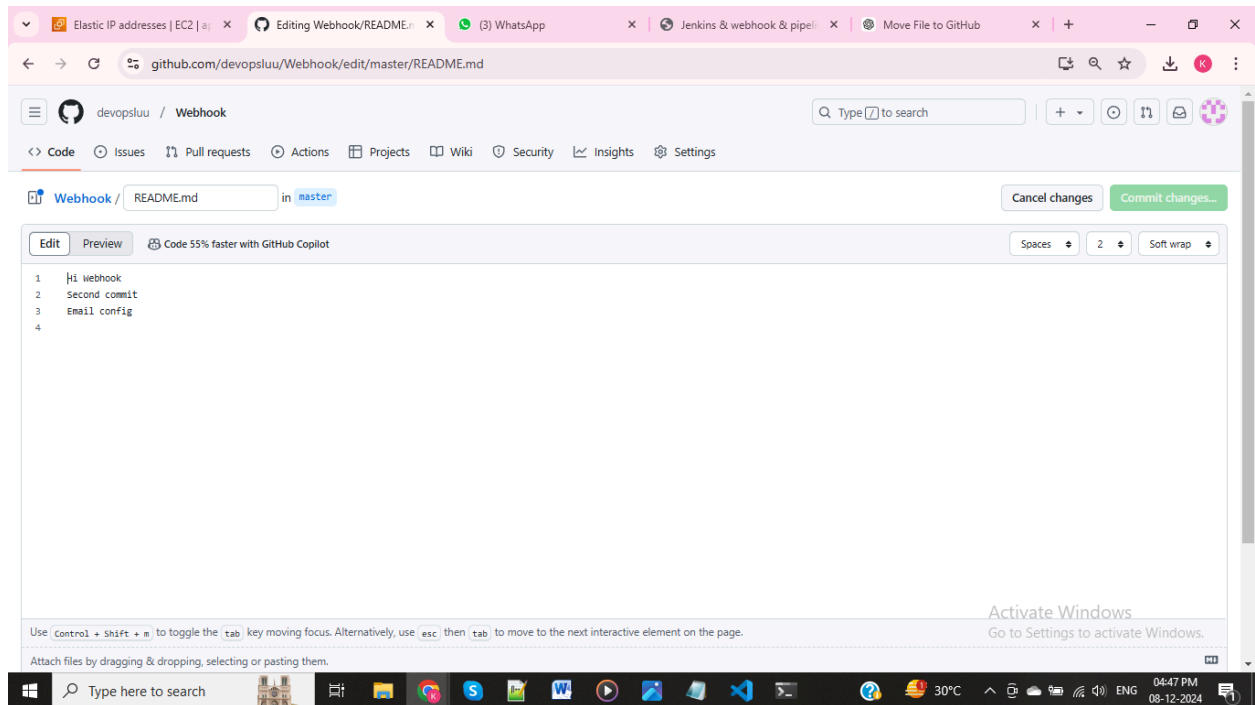
Jenkins 2.488
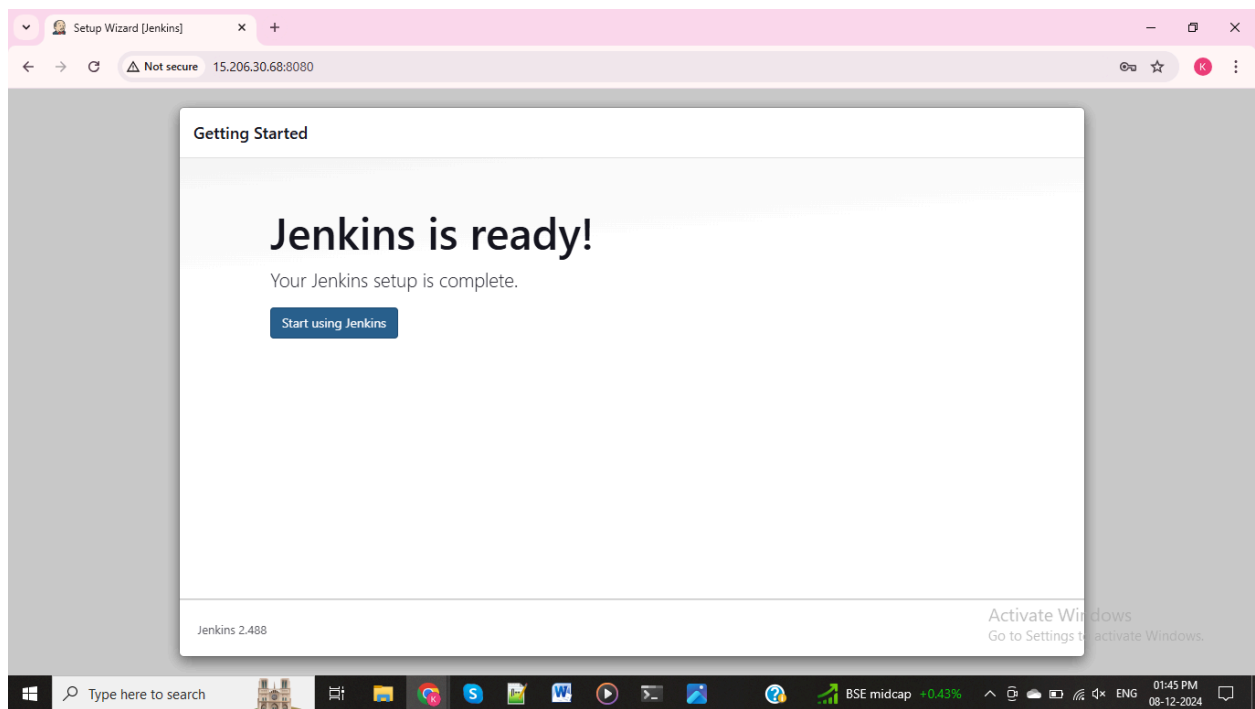
Create a Pipeline job and configure with pipeline script from SCM and select Github webhook triggers
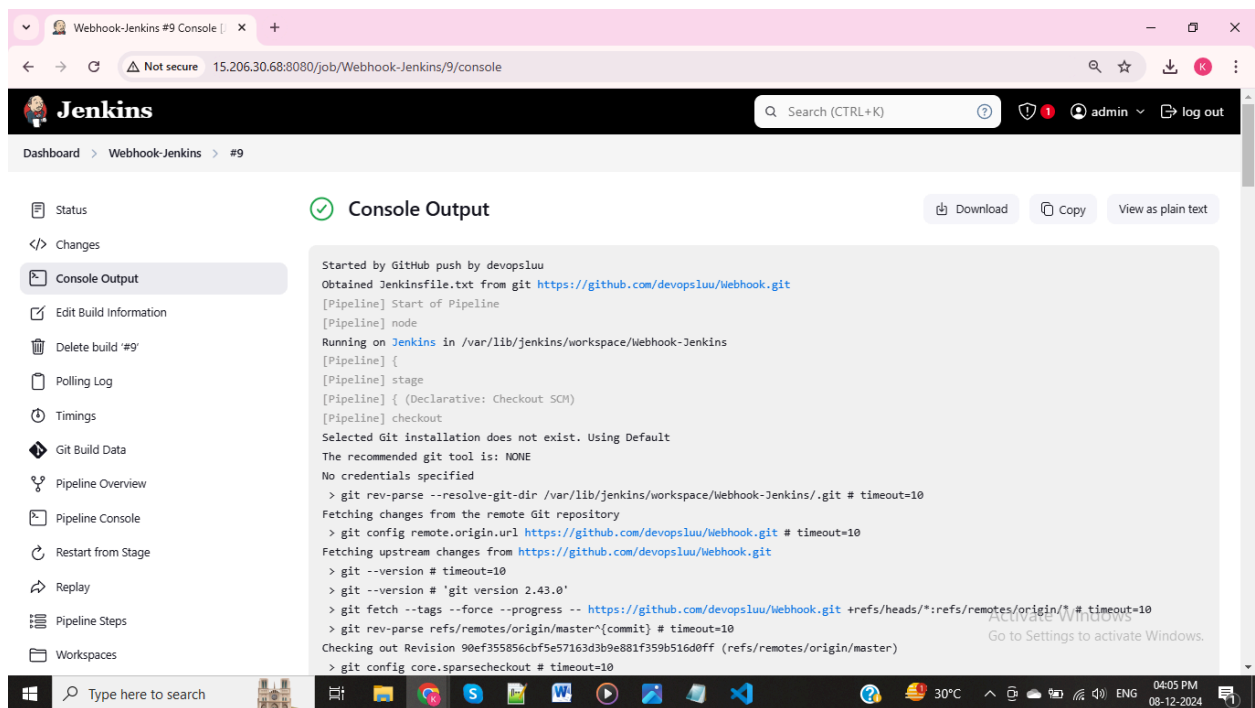

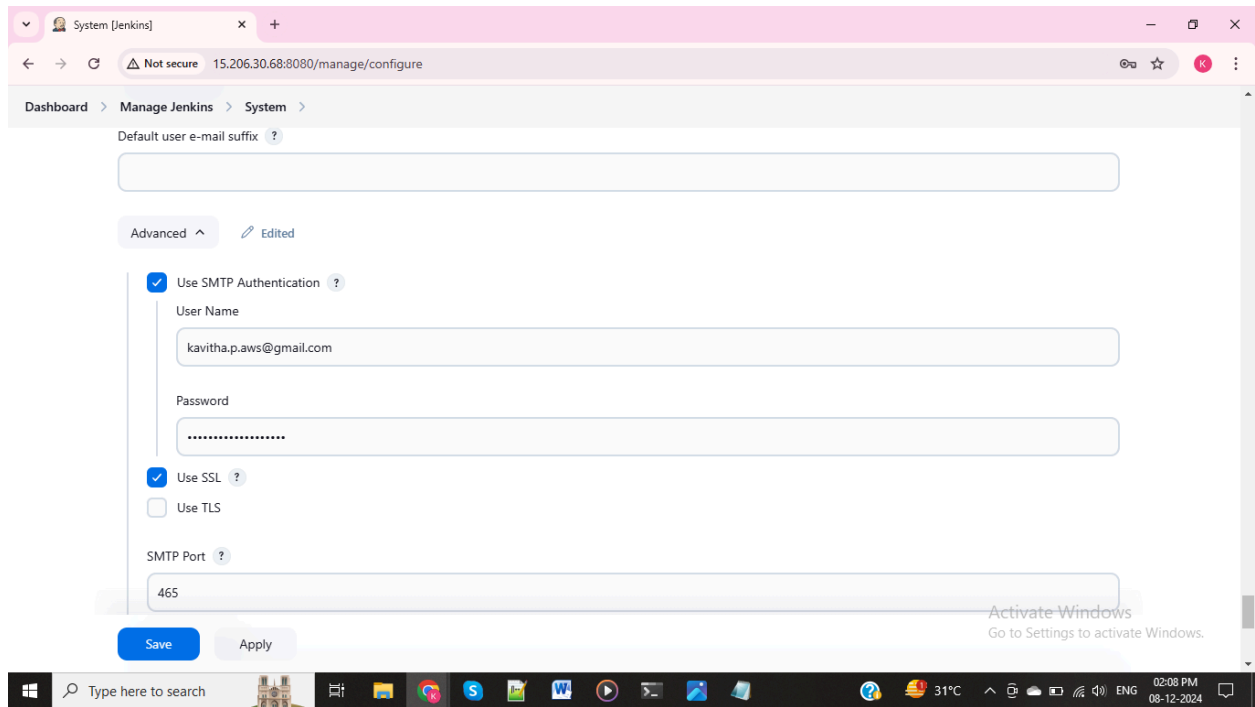Build automatically with the help of webhook cron job

Second and third comment change in Git

Auto build started and its output

Jenkins and Email configure setting up

Email success build output