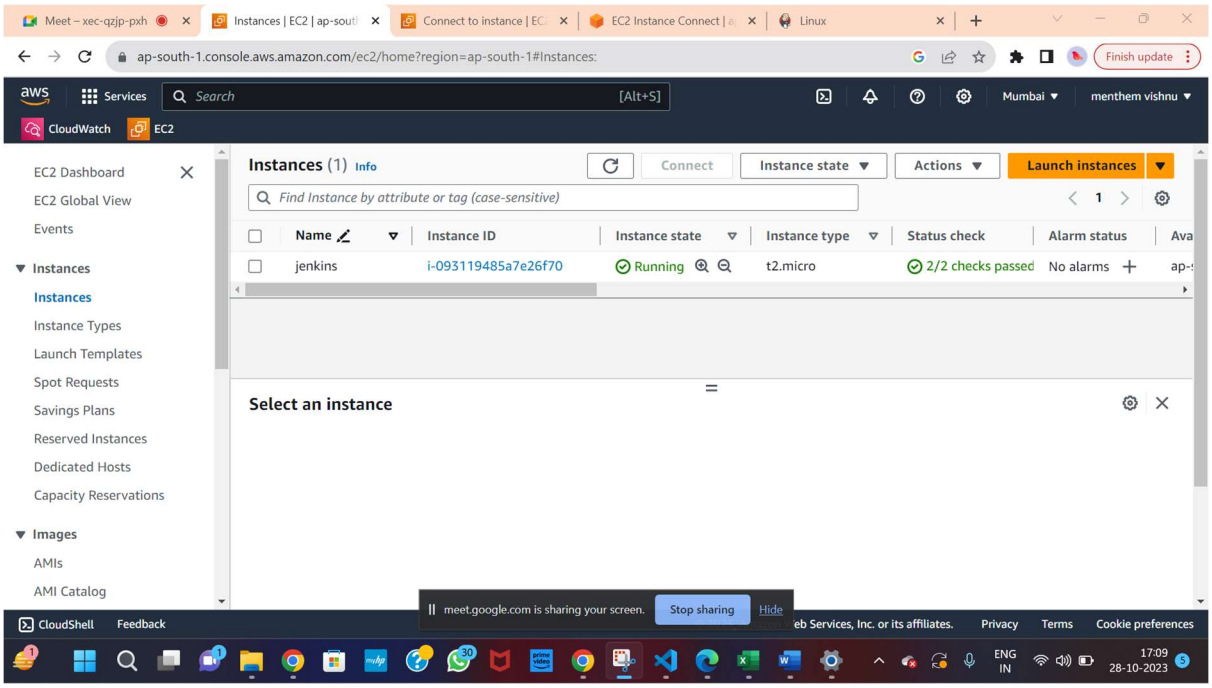
Jenkins – task

Task question –

Create a simple script file , with some data present it and push it to repo. Now Create a project in Jenkins connected to your GitHub repository. When a commit is made to your repo, automatically build must get triggered from Jenkins and the output must be shared to me via email.

Solution –

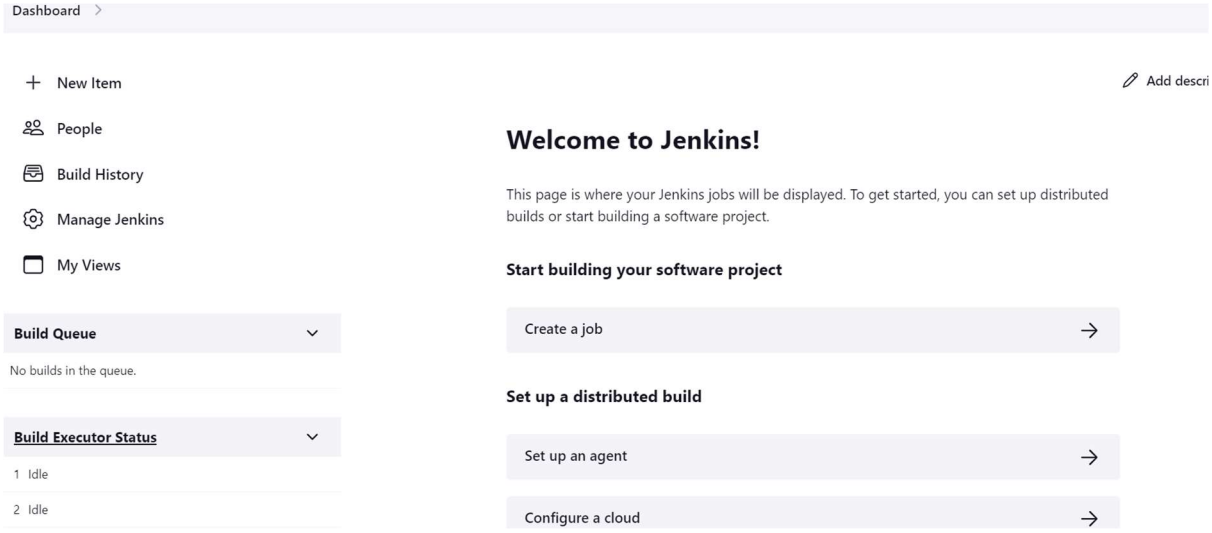
Launching an ec2 instance



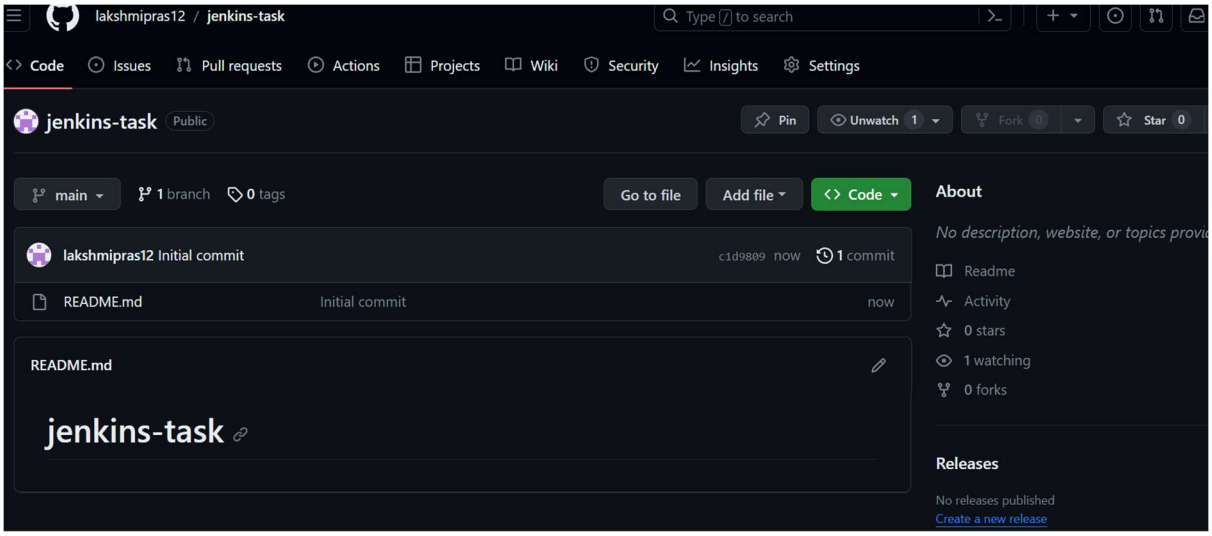
Installing Jenkins in ec2

```
upgraded, 2 newly installed, 0 to remove and 112 not upgraded.
bot@ip-172-31-11-152:/home/ubuntu# jenkins --version
2.414.3
bot@ip-172-31-11-152:/home/ubuntu# systemctl status jenkins
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
     Active: active (running) since Sat 2023-10-28 11:45:48 UTC; 2min 9s ago
   Main PID: 16630 (java)
      Tasks: 36 (limit: 1141)
     Memory: 307.5M
     CGroup: /system.slice/jenkins.service
             └─16630 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080
```

Setting up the Jenkins dashboard

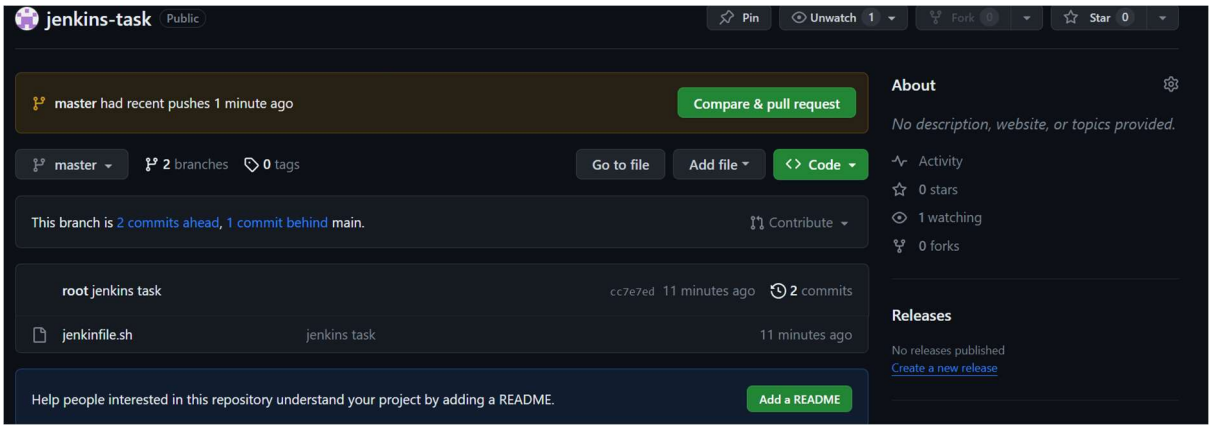


Setting up a github repository

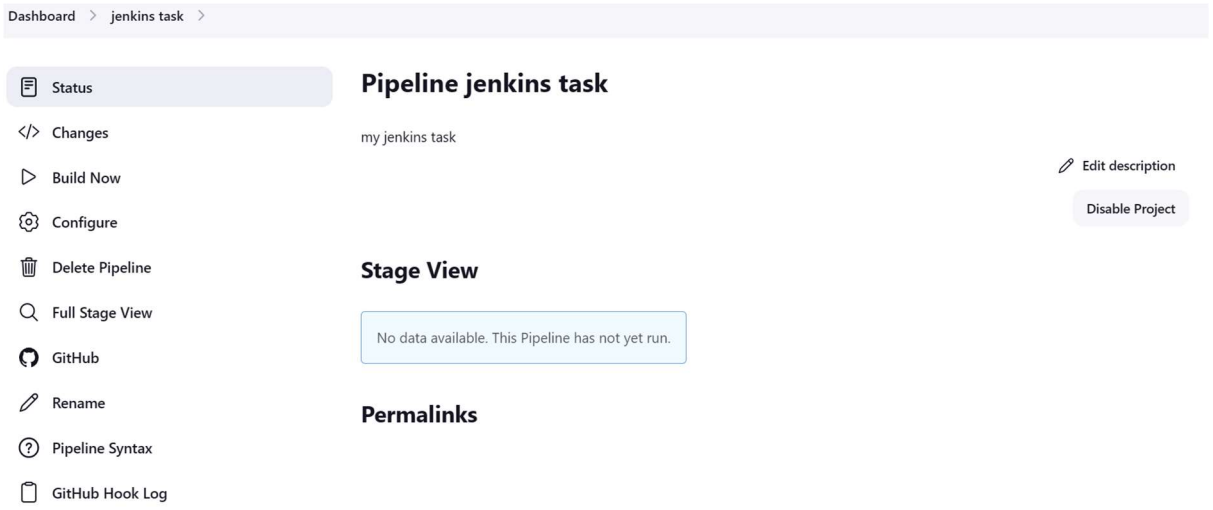


Creating a script file and pushing it to github

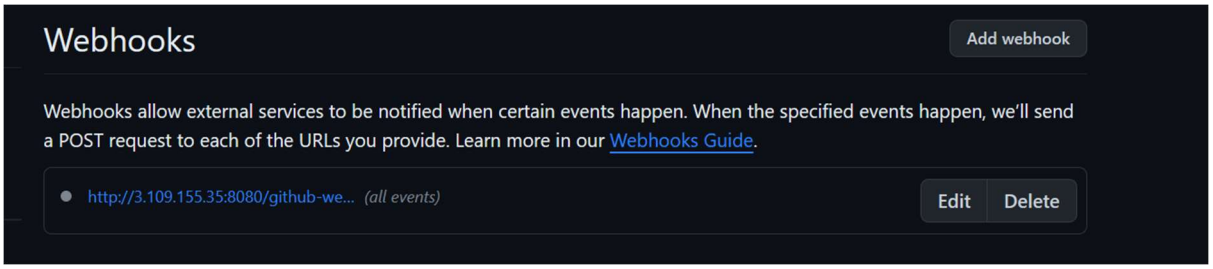
```
root@ip-172-31-11-152:/home/ubuntu# echo " welcome to jenkins " > jenkinfile.sh
root@ip-172-31-11-152:/home/ubuntu# ls
jenkinfile.sh
root@ip-172-31-11-152:/home/ubuntu#
```



Creating a Jenkins job



Setting up github hook trigger



Creating a jenkin file and pushing it to remote control

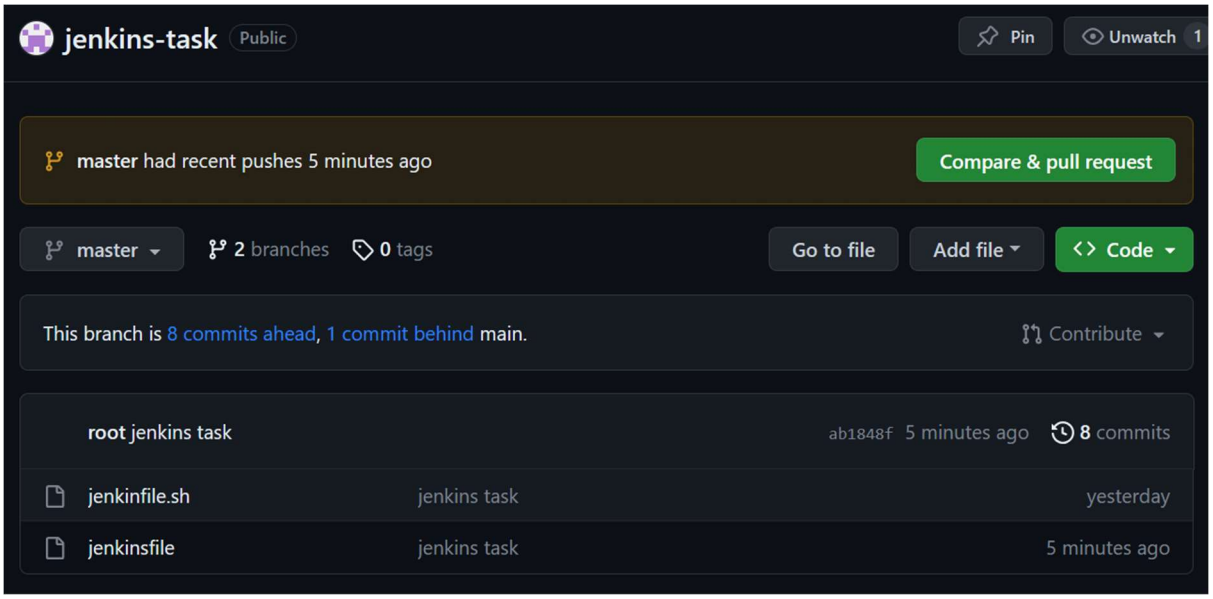
Jenkinsfile contains :

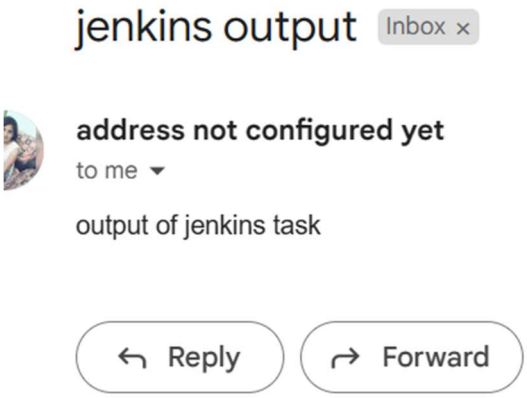
```
pipeline {
    agent any
    stages {
        stage('git clone') {
```

```
            steps {
                git branch: 'master',
                url: 'https://github.com/lakshmipras12/jenkins-task.git'
            }
        }

        stage ('build') {
            steps {
                sh 'cat jenkinfile.sh'
            }
        }

    }
    post {
        always{
            mail to: "menthemklpn61@gmail.com",
            subject: "jenkins output",
            body: "output of jenkins task"
        }
    }
}
```



The Jenkins job triggered automatically when the code is push to github repository with the help og github webhook

The output of task is shared via email