Certification Project – Insure Me

Insurance Domain

Using Git - For version control for tracking changes in the code files and uploading the code to git hub repo.

```
LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents

$ git clone https://github.com/StarAgileDevOpsTraining/star-agile-insurance-project.git
Cloning into 'star-agile-insurance-project'...
remote: Enumerating objects: 160, done.
remote: Counting objects: 100% (160/160), done.
remote: Compressing objects: 100% (89/89), done.
remote: Total 160 (delta 48), reused 155 (delta 48), pack-reused 0
Receiving objects: 100% (160/160), 19.82 MiB | 1.12 MiB/s, done.
Resolving deltas: 100% (48/48), done.
    ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents
 $ ls
AD_Port
                                                                                                            'New folder'/
                                                                                                            'Scanned Documents'/
'WhatsApp Image 2023-09-16 at 15.47.20.jpg'
'WhatsApp Image 2023-09-16 at 15.48.15.jpg'
'WhatsApp Image 2023-09-16 at 15.49.05.jpg'
   Custom Office Templates'/
   Exprienc.pdf
  Fax/
IMG_20230824_165931.jpg
  'Kubernetes Assignment -1 Arman Baig.docx'
'Kubernetes Assignment -1 Chinmay G Bhat.docx'
'Kubernetes Assignment -2 Arman baig.pdf'
'Kubernetes Assignment -2 Chinmay G Bhat.docx'
                                                                                                           desktop.ini
'income caste.pdf'
                                                                                                               insureproject,
                                                                                                            'kpsc form.pdf
                                                                                                            'sslc marks card.pdf'
'sslc marks card_1.jpg'
   My Music'@
   My Pictures'@
                                                                                                              star-agile-insurance-project/
   Mv Videos'@
    ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents
    cd insureproject
                                                          🕟 🛱 🧿 🔚 🙃 🤡 🙆 💁 🚸 📮 🚾
                                                                                                                                                                                                        24°C Mostly clear
```

♣ Initializing the git repository in the local machine.

```
.ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject
total 18
drwxr-xr-x 1 LENOVO 197121
                             0 Oct 4 18:48 ./
drwxr-xr-x 1 LENOVO 197121
                             0 Oct 4 18:47 ../
                                    4 18:46 .gitignore
-rw-r--r-- 1 LENOVO 197121 439 Oct
drwxr-xr-x 1 LENOVO 197121
                             0 Oct
                                    4 18:48 .mvn/
                                    4 18:46 README.md
-rw-r--r-- 1 LENOVO 197121
                           361 Oct
rw-r--r-- 1 LENOVO 197121 1809
                               0ct
                                      18:46 pom.xml
drwxr-xr-x 1 LENOVO 197121
                             0 Oct
                                    4 18:48 src/
LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject
README.md mvnw* mvnw.cmd pom.xml src/
_ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject
Initialized empty Git repository in C:/Users/LENOVO/Documents/insureproject/.git/
```

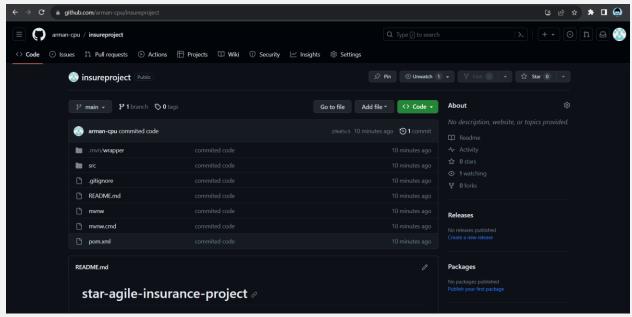
Performing git add to send the code to staging area.

```
ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git add .
  ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master) git commit -m "commited code"
 [master (root-commit) 29b85c5] commited code
45 files changed, 18725 insertions(+)
create mode 100644 .gitignore
create mode 100644 .mvn/wrapper/maven-wrapper.jar
   create mode 100644 .mvn/wrapper/maven-wrapper.properties
   create mode 100644 README.md
   create mode 100644 mvnw
   create mode 100644 mvnw.cmd
  create mode 100644 pom.xml
 create mode 100644 pom.xml
create mode 100644 src/main/java/com/project/staragile/insureme/InsureMeApplication.java
create mode 100644 src/main/java/com/project/staragile/insureme/Policy.java
create mode 100644 src/main/java/com/project/staragile/insureme/PolicyController.java
create mode 100644 src/main/java/com/project/staragile/insureme/PolicyRepository.java
create mode 100644 src/main/java/com/project/staragile/insureme/PolicyService.java
create mode 100644 src/main/resources/application.properties
create mode 100644 src/main/resources/static/about.html
create mode 100644 src/main/resources/static/contact.html
  create mode 100644 src/main/resources/static/css/bootstrap.css
create mode 100644 src/main/resources/static/css/font-awesome.min.css
 create mode 100644 src/main/resources/static/css/font-awesome.min.css
create mode 100644 src/main/resources/static/css/responsive.css
create mode 100644 src/main/resources/static/css/style.css
create mode 100644 src/main/resources/static/css/style.css.map
create mode 100644 src/main/resources/static/css/style.css
create mode 100644 src/main/resources/static/fonts/fontawesome-webfont.ttf
create mode 100644 src/main/resources/static/fonts/fontawesome-webfont.woff
create mode 100644 src/main/resources/static/fonts/fontawesome-webfont.woff
create mode 100644 src/main/resources/static/images/about-bg.jpg
create mode 100644 src/main/resources/static/images/about-img.jpg
create mode 100644 src/main/resources/static/images/about-img2.jpg
create mode 100644 src/main/resources/static/images/b1.jpg
create mode 100644 src/main/resources/static/images/b2.jpg
create mode 100644 src/main/resources/static/images/b3.jpg
                                                                                        ₽
                                                                                                                                                                      Ca (P24)
                                                                                                                                                                                                                                                                                                                     24°C Mostly clear
```

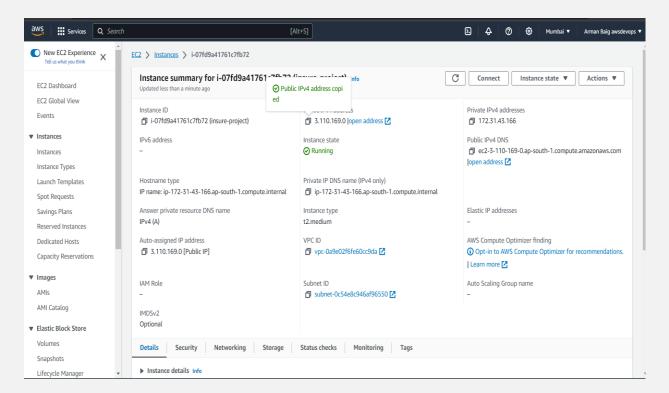
Pushing code from local to git hub repository.

```
_ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git remote add origin https://github.com/arman-cpu/insureproject.git
 LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (master)
$ git branch -M main
LENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (main)
$ git push -u origin main
Enumerating objects: 69, done.
Counting objects: 100% (69/69), done.
Delta compression using up to 4 threads
Compressing objects: 100% (57/57), done.
Writing objects: 100% (69/69), 1.43 MiB | 510.00 KiB/s, done.
Total 69 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/arman-cpu/insureproject.git
   [new branch]
                        main -> main
branch 'main' set up to track 'origin/main'.
 .ENOVO@DESKTOP-5ALAOUN MINGW64 ~/Documents/insureproject (main)
      Type here to search
                                  Ħŧ
```

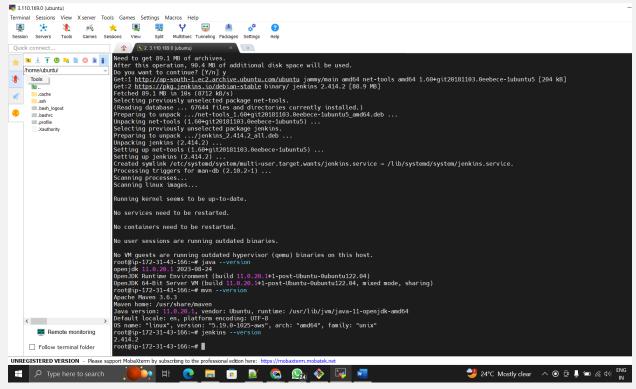
Verifying the source code got pushed to git hub.



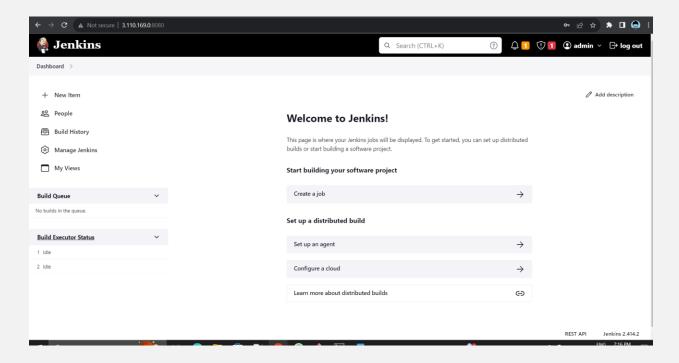
♣ Creating a Ec2 instance of type t2-medium of 25gb



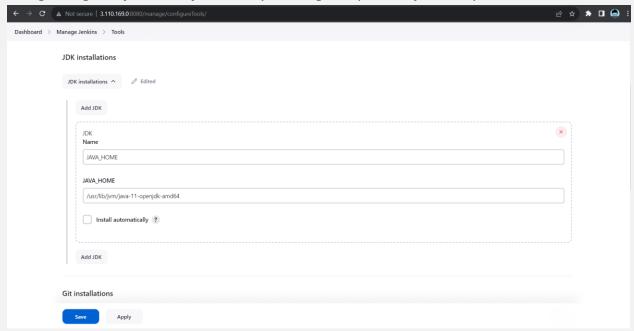
Installing JAVA , MAVEN and jenkins in ec2 instance .



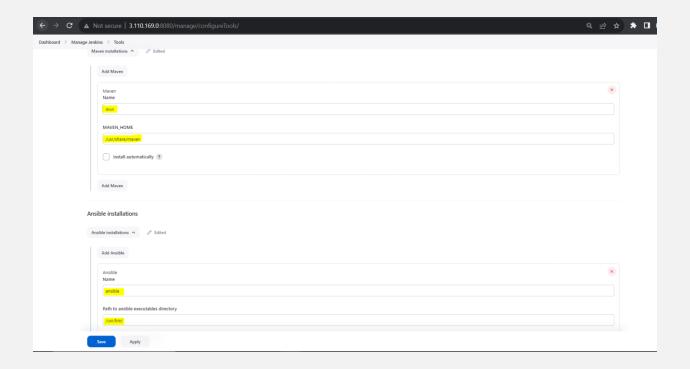
Launching jenkins on port 8080 by installing recquired plugins.



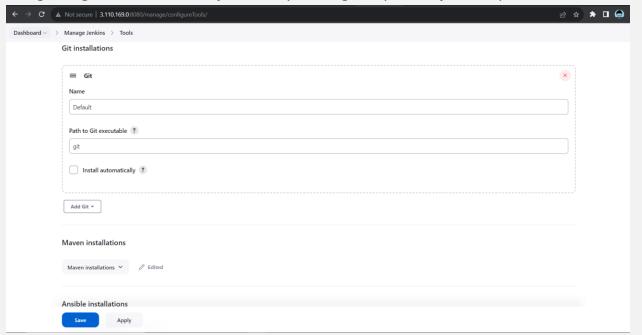
♣ Integrating the java and jenkins by adding the path in jenkins portal



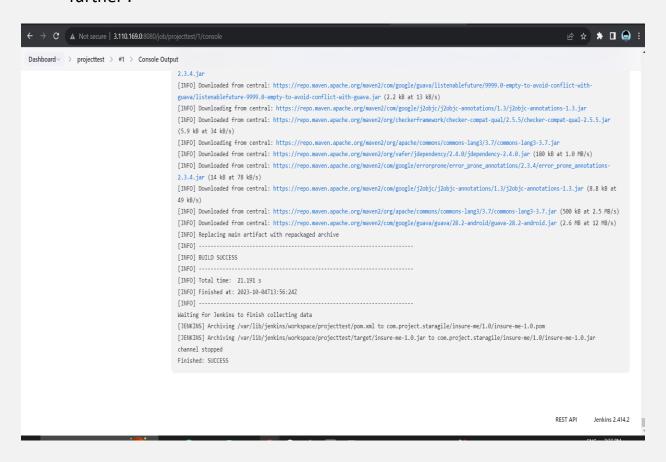
♣ Integrating the maven, ansible and jenkins by adding the path in jenkins portal



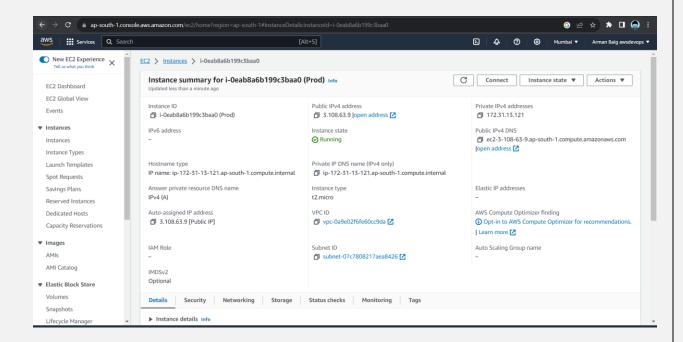
♣ Integrating the Git Hub and jenkins by adding the path in jenkins portal



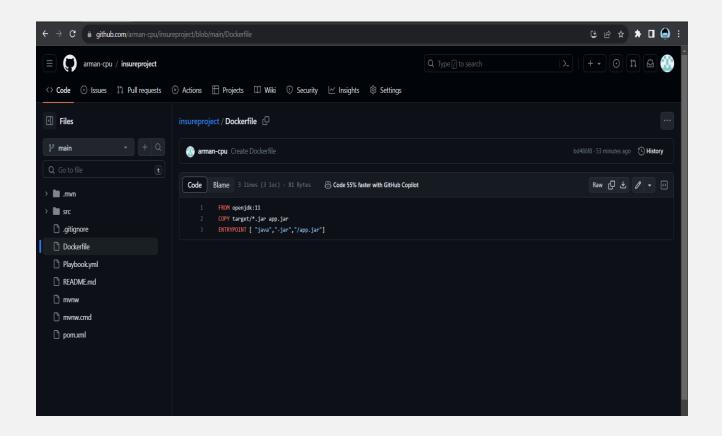
Creating a dummy job to test & verifying that everything is fine to proceed further.



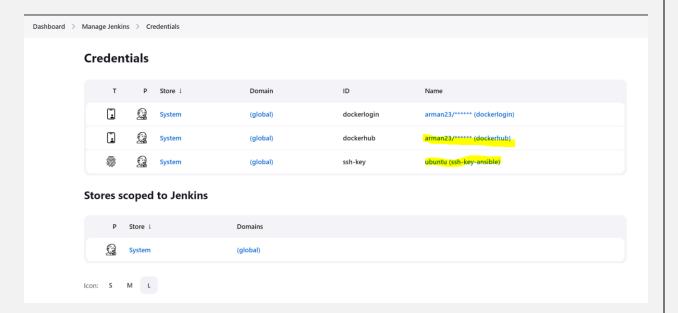
Creating another machine to deploy our code and will install docker in it .



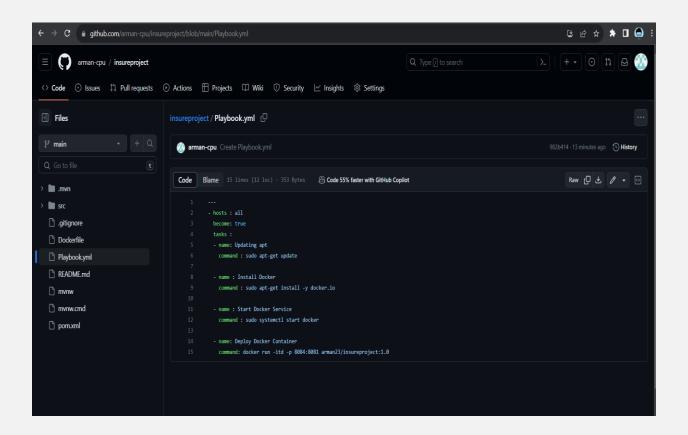
♣ Created a Docker file in the local and pushed to the git hub.



♣ Integrating docker hub with jenkins by providing docker hub credentials



Created a ansible playbook in local and pushed to github repo in name Playbook.yml.



♣ Writing pipeline script to execute the jobs without interruption.

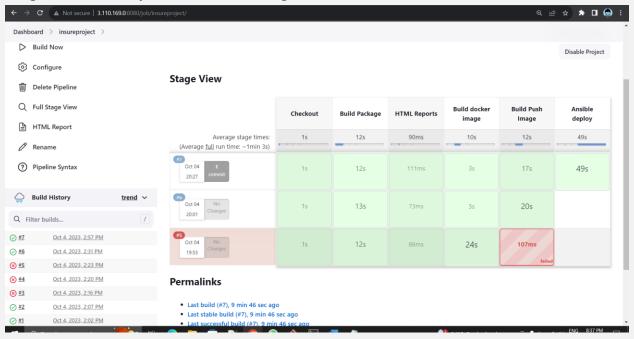
```
Q 🖻 🖈 🗖 🚇 :
{\sf Dashboard} \quad > \quad {\sf insureproject} \quad > \quad {\sf Configuration}
                                                                   Script ?
 Configure
                                                                    1 * pipeline {
2 agent any
                                                                                (c) General
  Advanced Project Options
                                                                                      stage('Build Package') {
    steps {
        sh 'mvn clean package'
}
 Pipeline
                                                                                     stage('HTML Reports') {
    steps {
        publishHTML([allowHissing: false, alwaystinkToLastBuild: false, keepAll: false, reportDir: '/var/lib/jenkins/w
                                                                                     }
stage('Build docker image') {
    steps {
        sh 'docker build -t arman23/insureproject:1.0 .'

                                                                                       }
stage('Build Push Image') {
steps {
steps {
strokerhub', passwordVariable: 'password', usernameVariable: 'password', usernameVariable:
sh'docker login -u ${dockerlogin} -p ${password}'
}
                                                                                               }
sh 'docker push arman23/insureproject:1.0'
                                                                                     }
stage('Ansible deploy') {
steps {
    ansiblePlaybook credentialsId: 'ssh-key', disableHostKeyChecking: true, installation: 'ansible', playbook: 'F
                                                                                Apply
```

Executing the job after everything is setup and verifying everything is working fine.

```
→ C 🔺 Not secure | 3.110.169.0:8080/job/insureproject/7/console
                                                                              @ ☆ * □ 🚇 :
Dashboard > insureproject > #7
                        changed: [172.31.13.121]
                        changed: [172.31.13.121]
                        changed: [172.31.13.121]
                        changed: [172.31.13.121]
                        : ok=5 changed=4 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0
                        172.31.13.121
                        [Pipeline] }
                        [Pipeline] // stage
                        [Pipeline] }
                        [Pipeline] // node
                        [Pipeline] End of Pipeline
                        Finished: SUCCESS
                                                                             REST API
                                                                                   Jenkins 2.414.2
```

Stage view of the job which are being built.

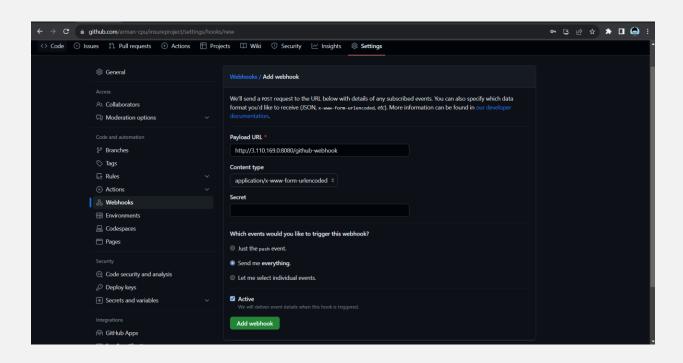


♣ Verifying the docker is installed by checking its version and verifying the code has pulled image from docker Hub.

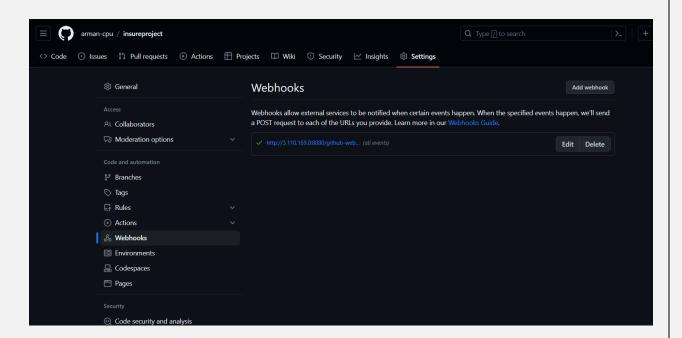
```
root@ip-172-31-13-121:~# docker --version
Docker version 24.0.5, build 24.0.5-0ubuntu1~22.04.1
root@ip-172-31-13-121:~# docker ps
CONTAINER ID IMAGE
T1fb2e56e32a arman23/insureproject:1.0 "java -jar /app.jar" About an hour ago Up About an hour 0.0.0:8084->8081/tcp, :::8084->8081/tcp arman root@ip-172-31-13-121:~#
```



♣ Integrating webhooks to our project by adding our webapp address to github.

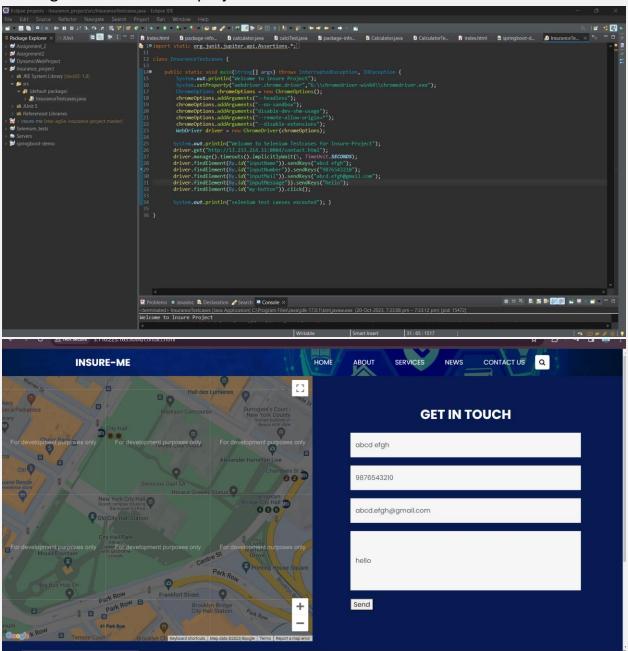


Successfully added webhooks to our webapp.





♣ Writing the test cases for project



Thank you