Part-1

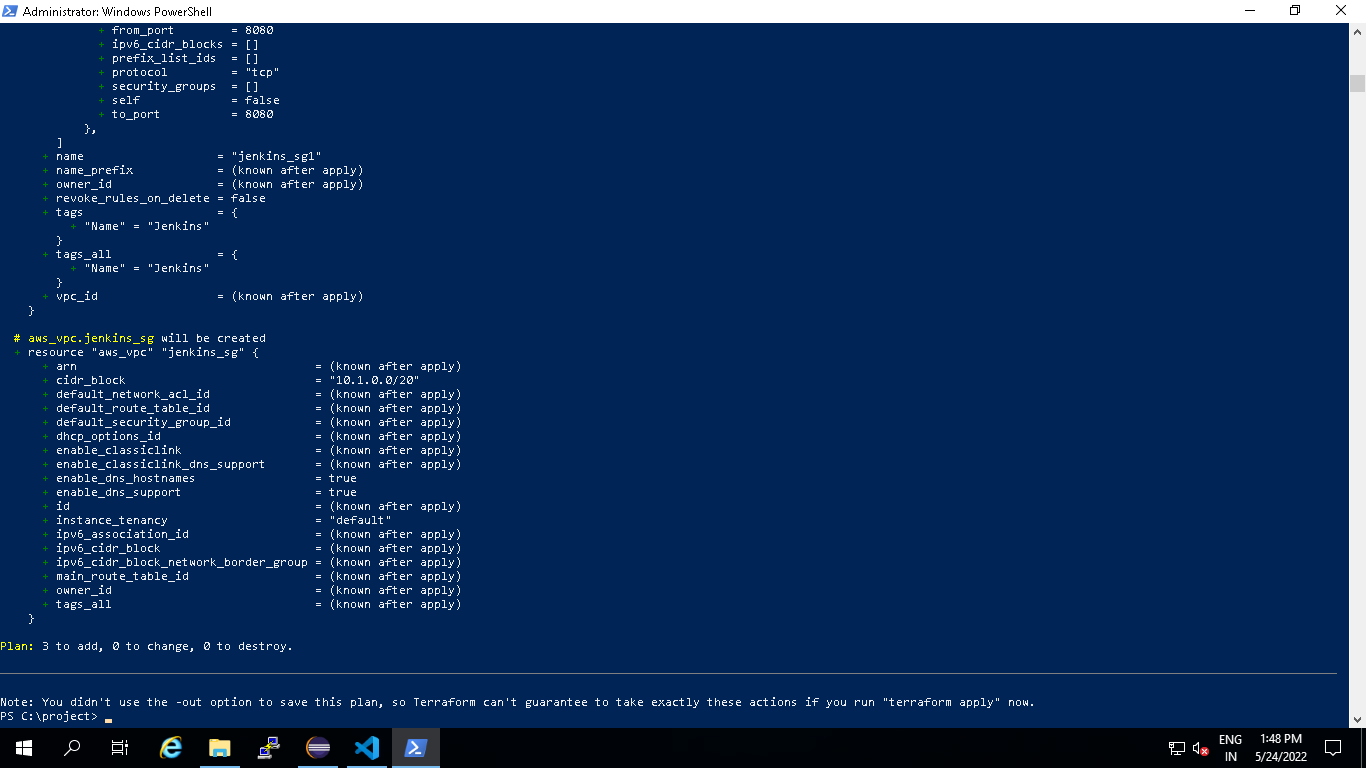
Create Jenkins server environment in AWS using Terraform

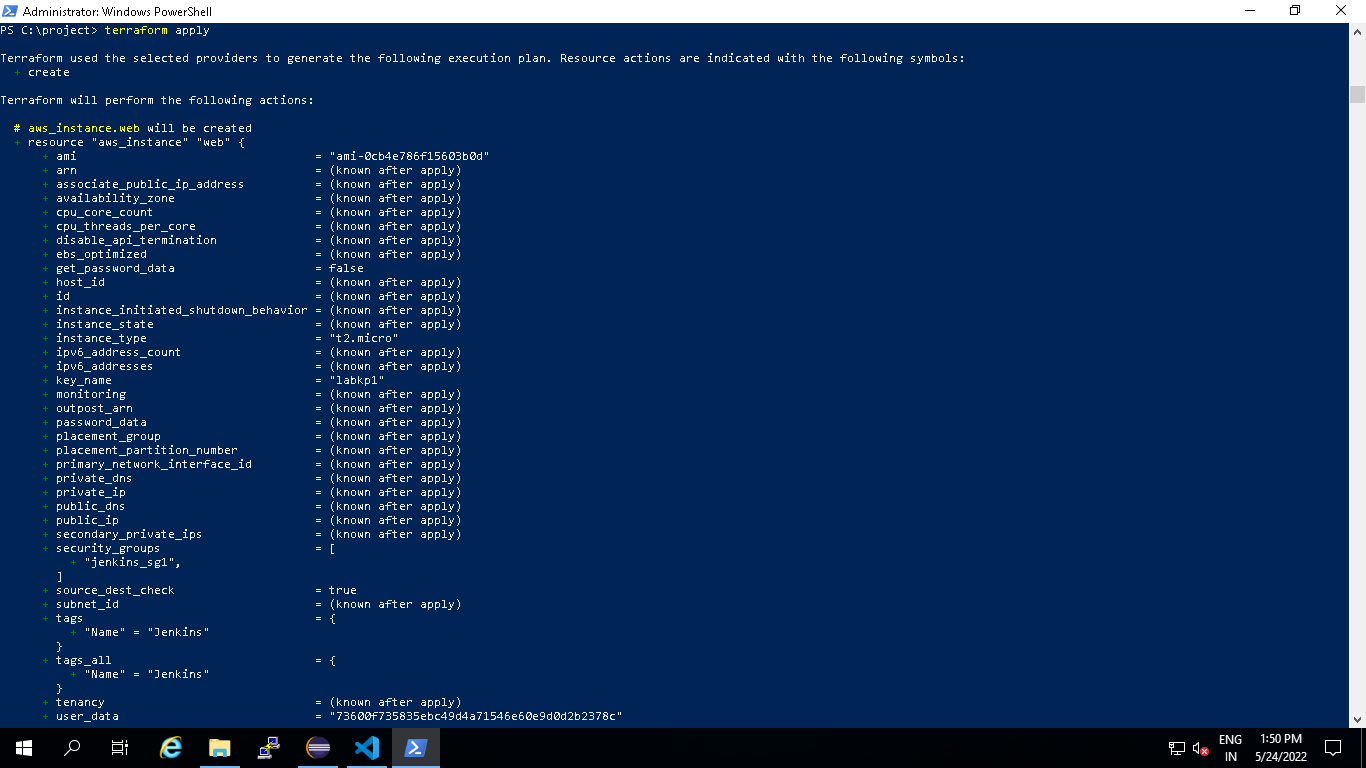
Commands used:

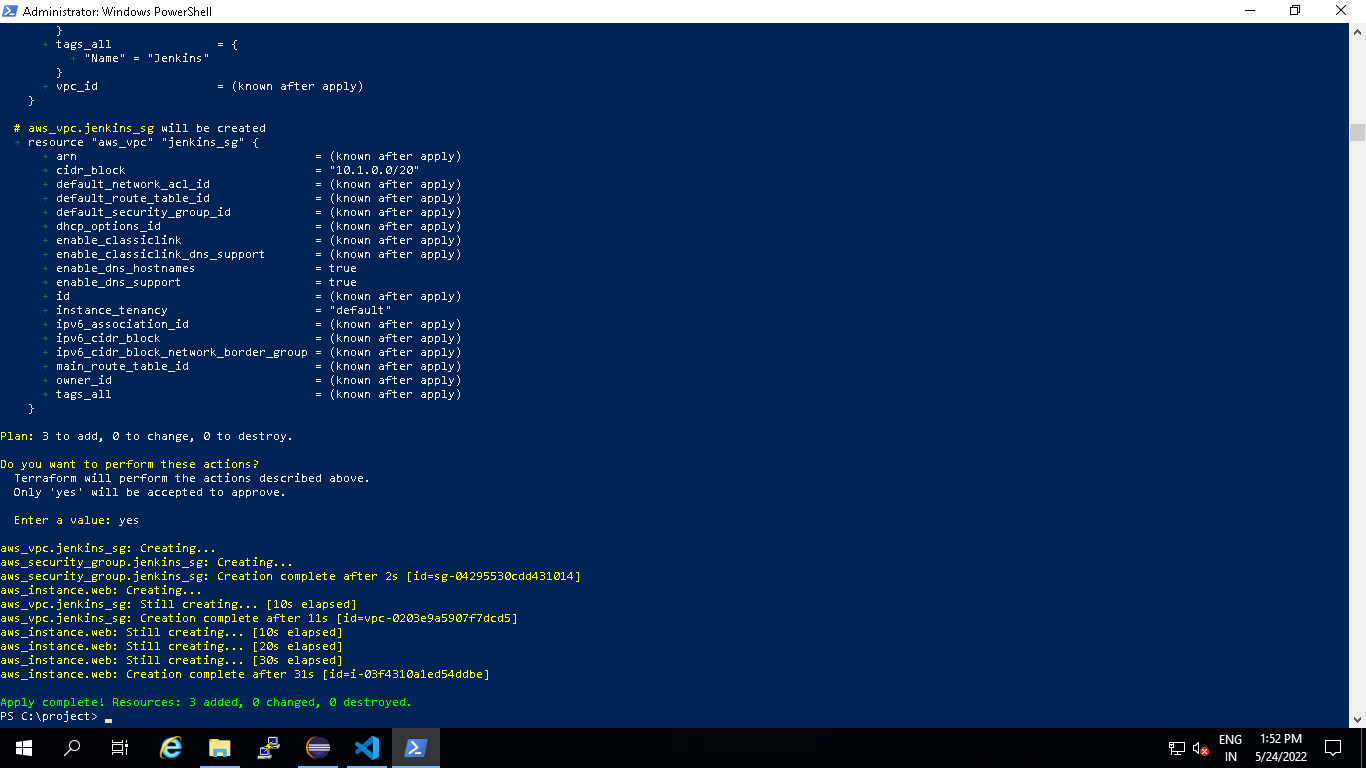
Terraform init

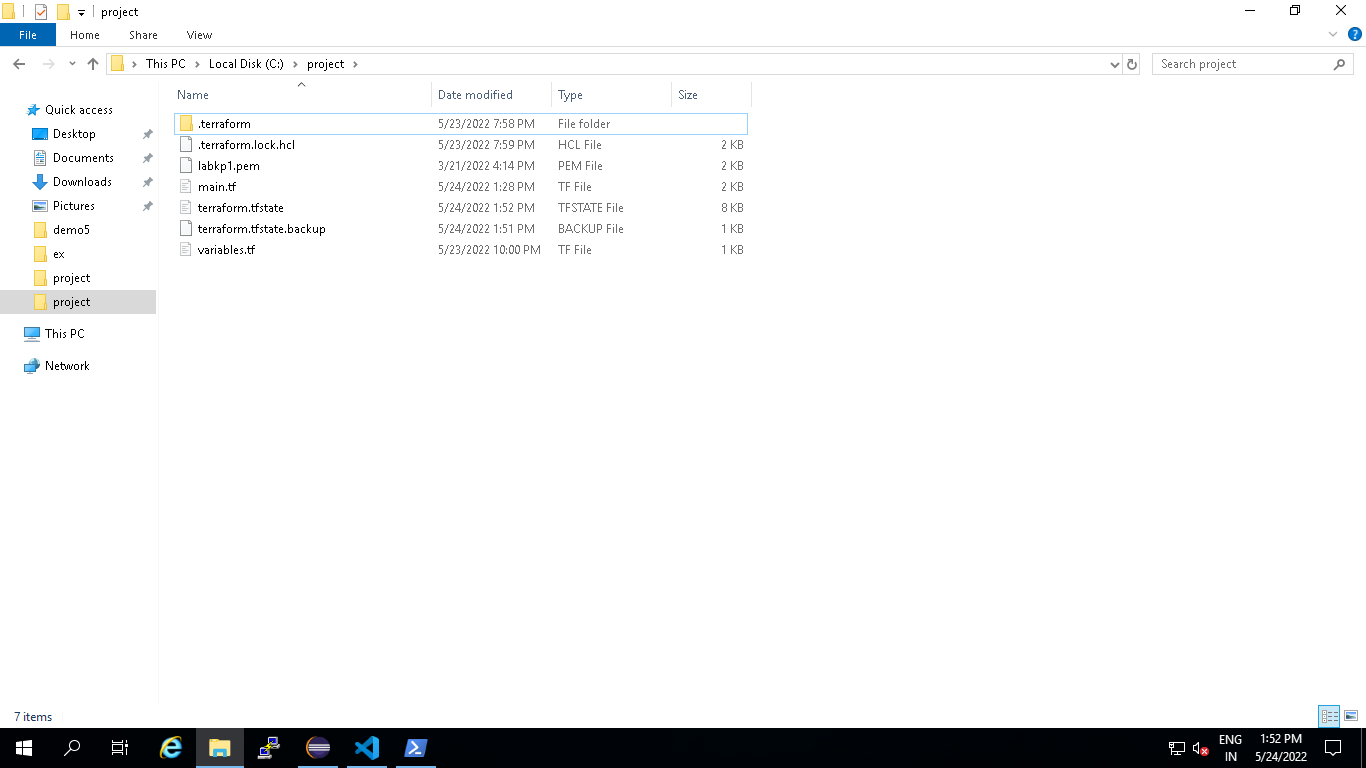
Terraform plan

Terraform apply



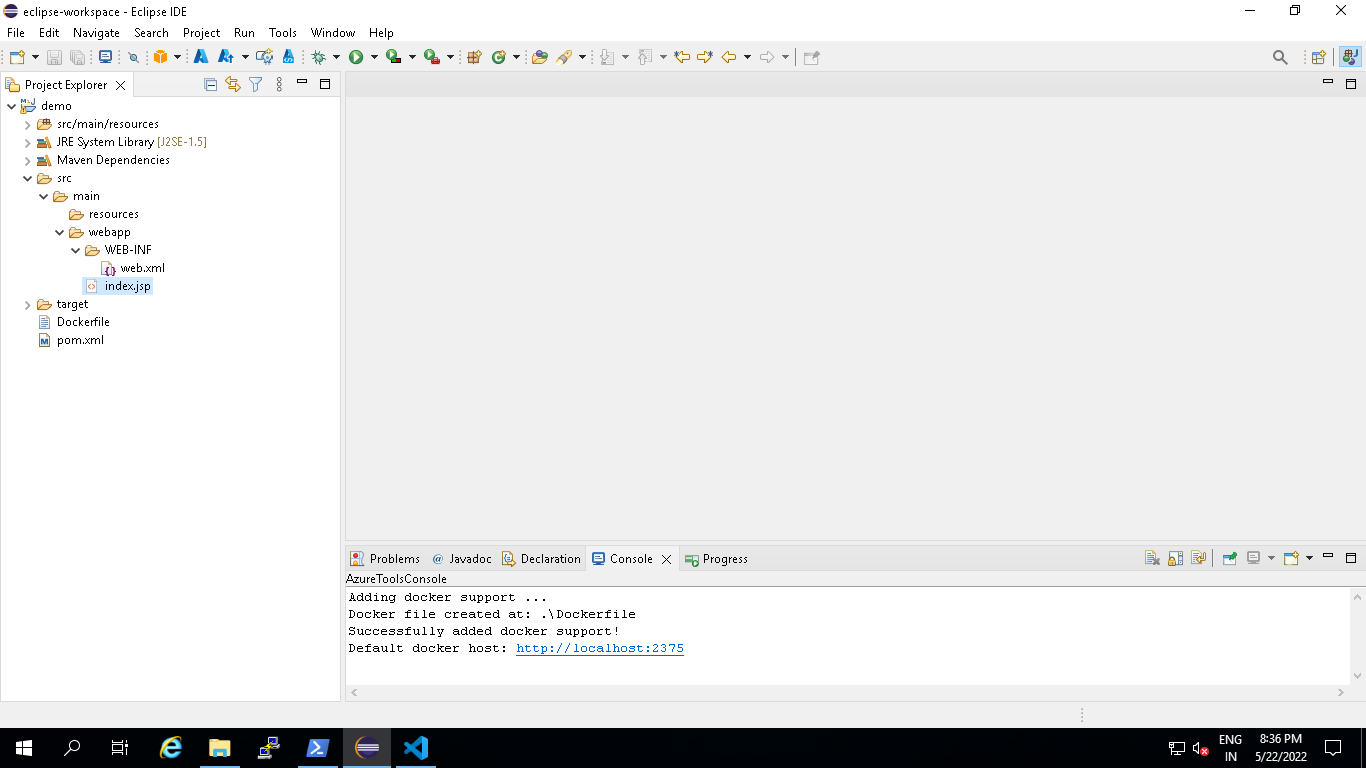




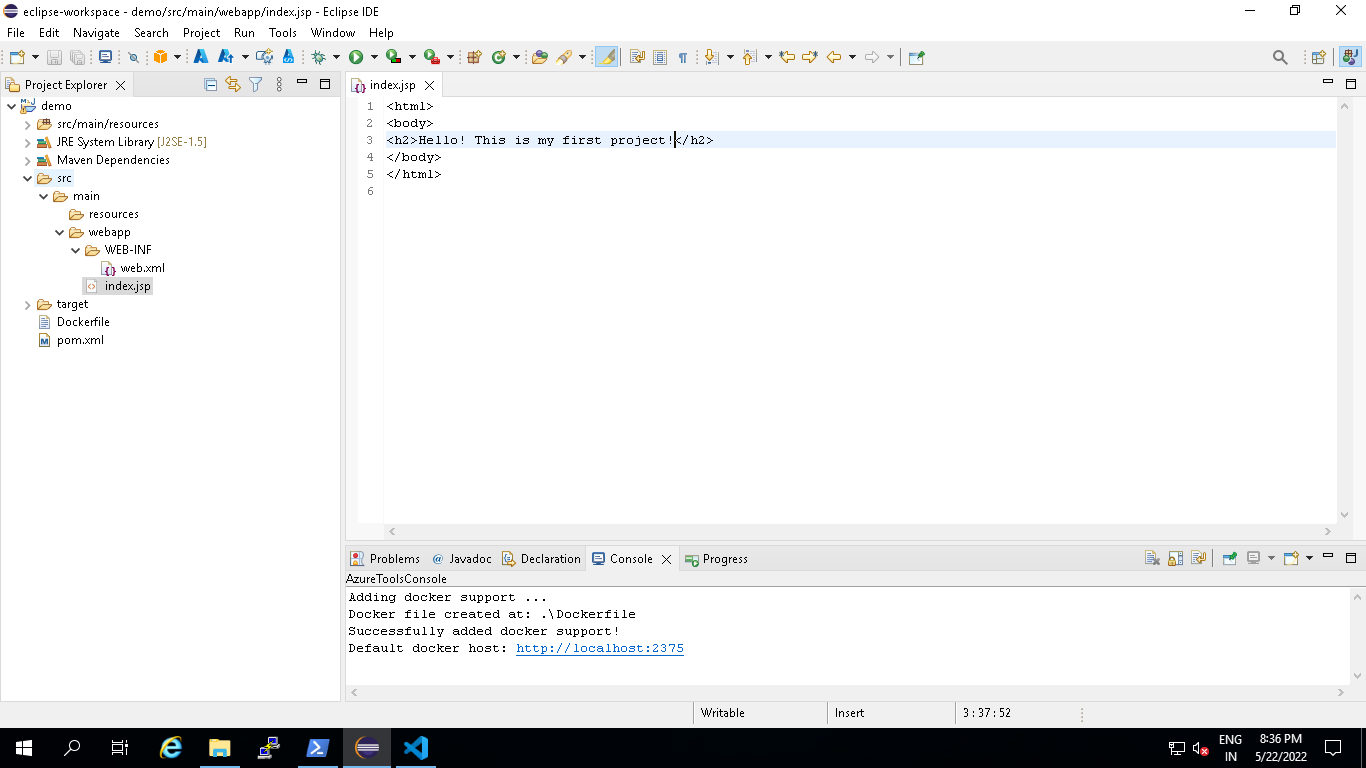


Part-2:Phase 1

Create Maven Project with Archtype as web application in eclipse

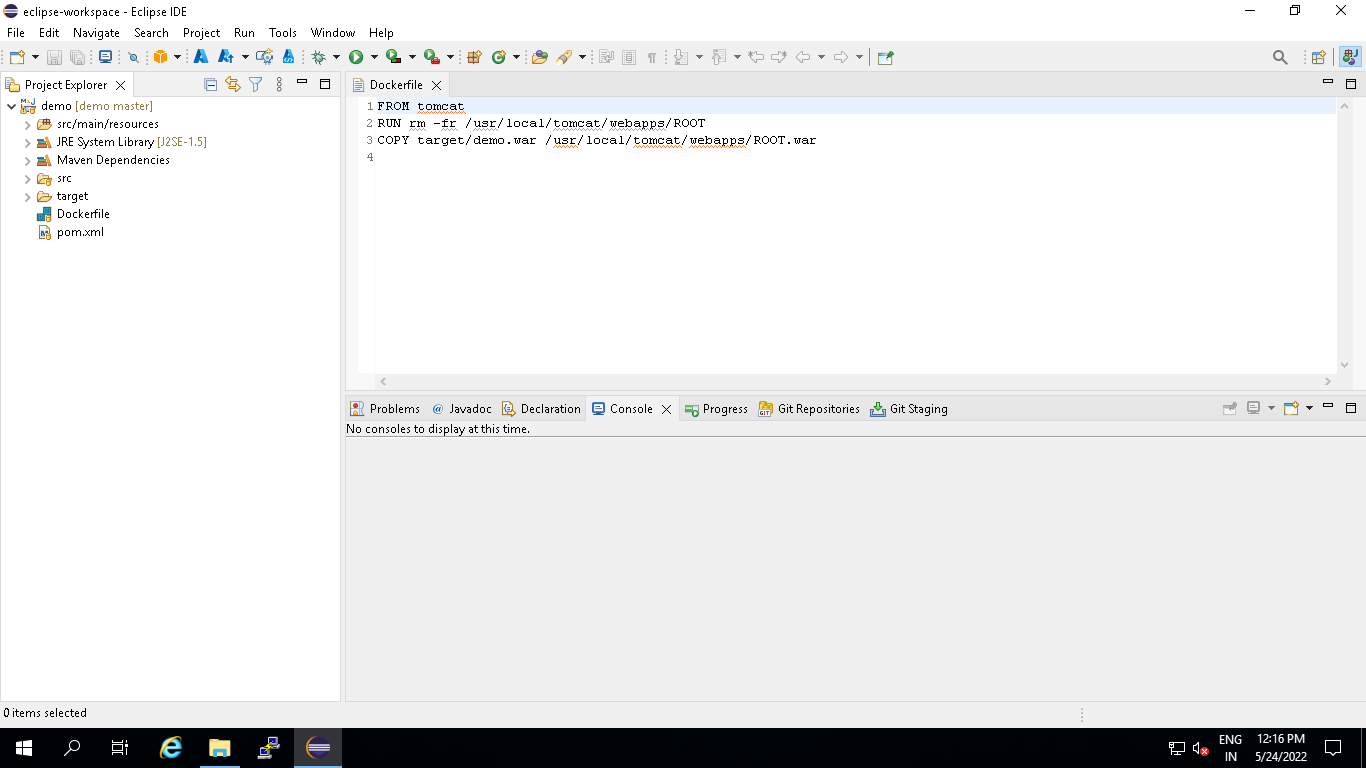


Modify index.jsp under src/main/webcontent



Part 2-Phase2:

Generate docker file under project folder of your app and Modify FORM statement to use tomcat as base image

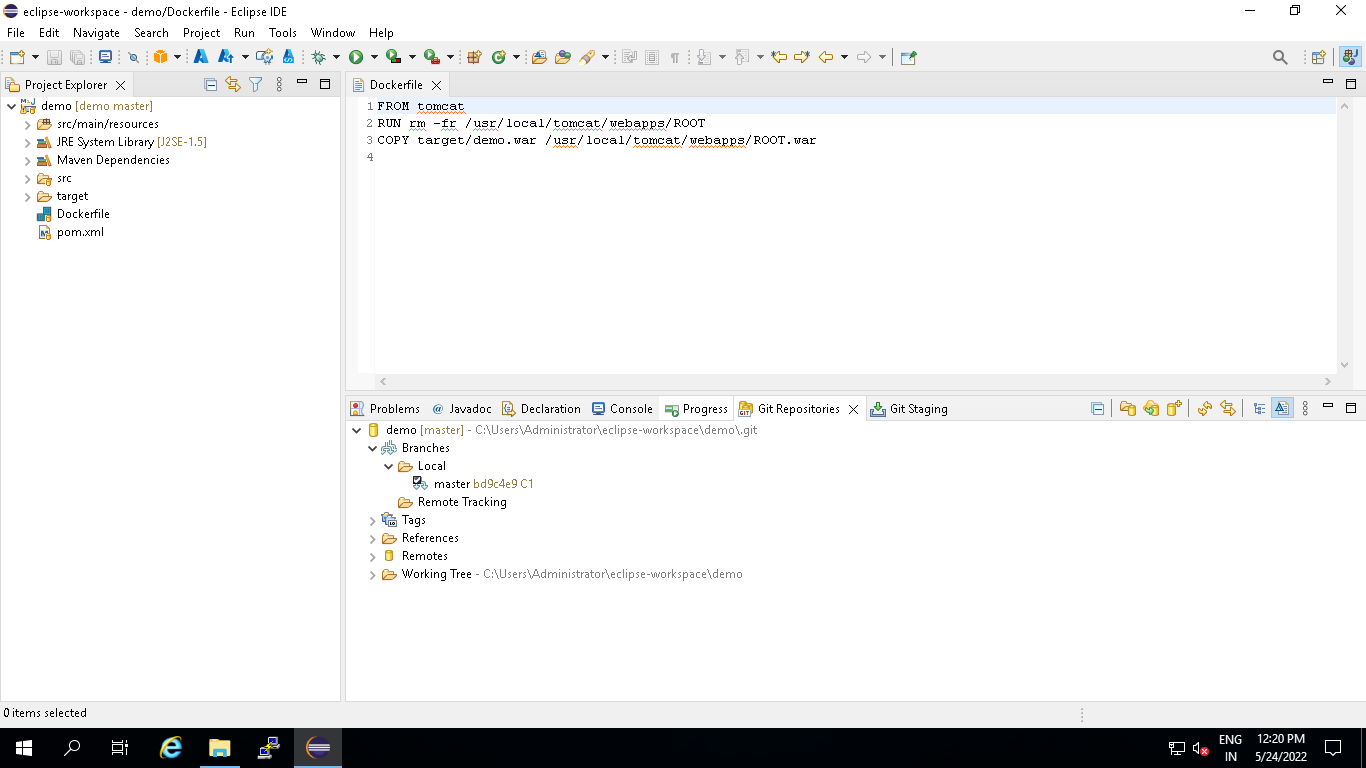


Part 2-Phase 3

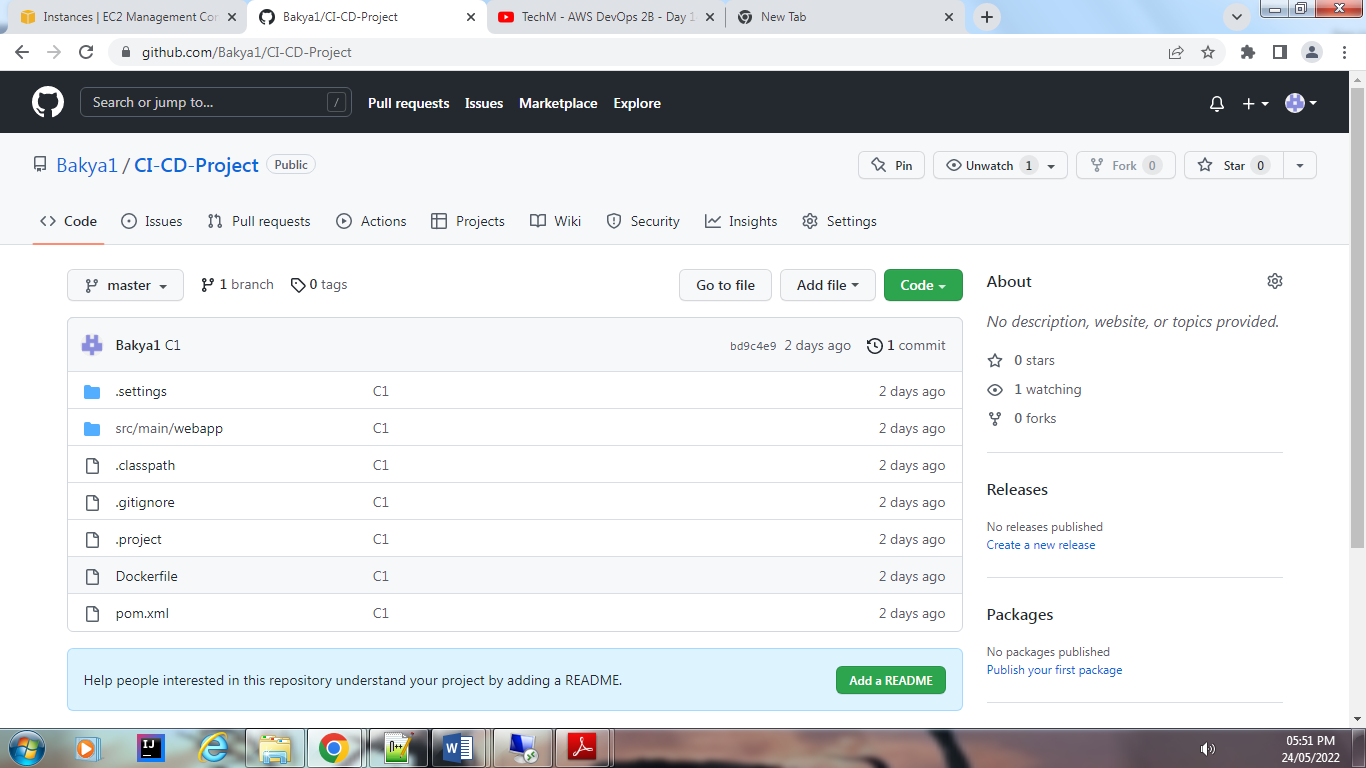
Create a git hub repository and copy the repo URL

https://github.com/Bakya1/CI-CD-Project.git

In Eclipse convert the app in to a local repo from Team menu share Project Option

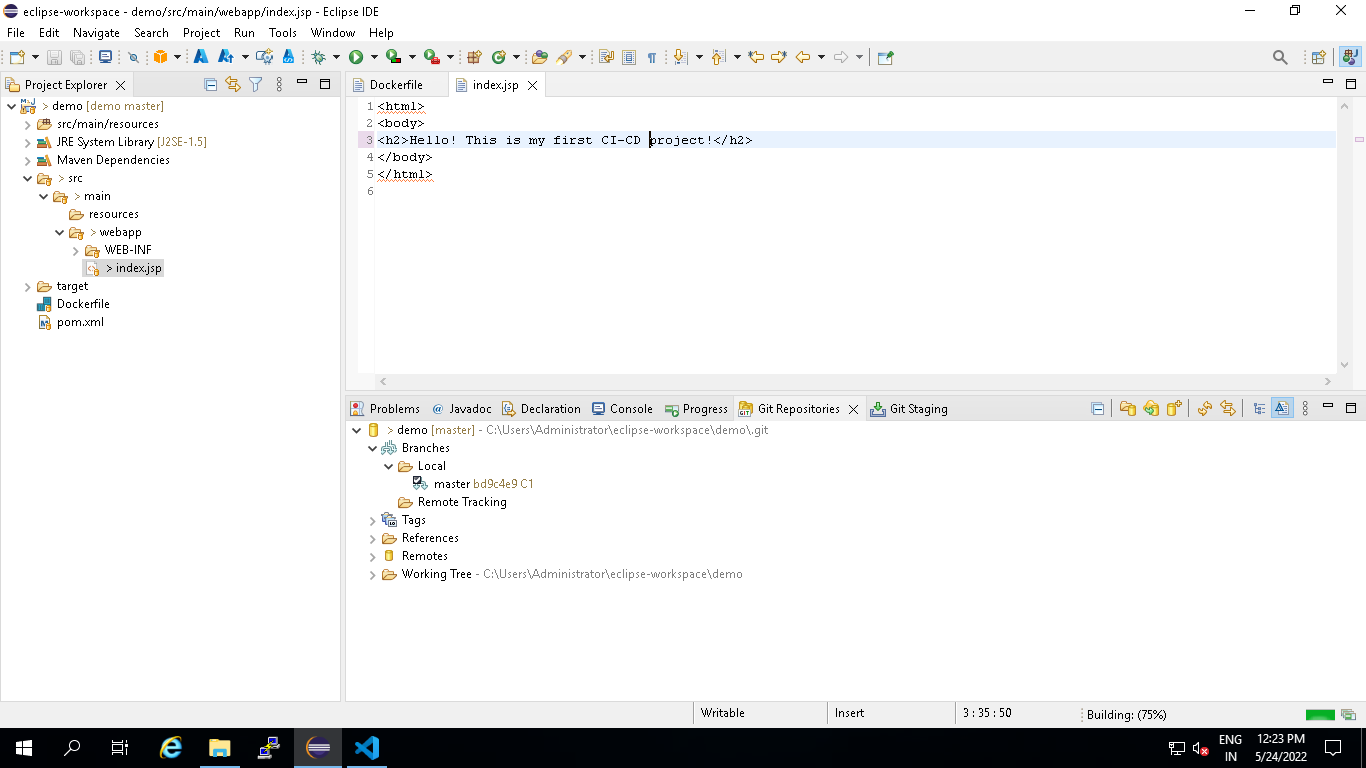


Commit and Push the code to remote repo

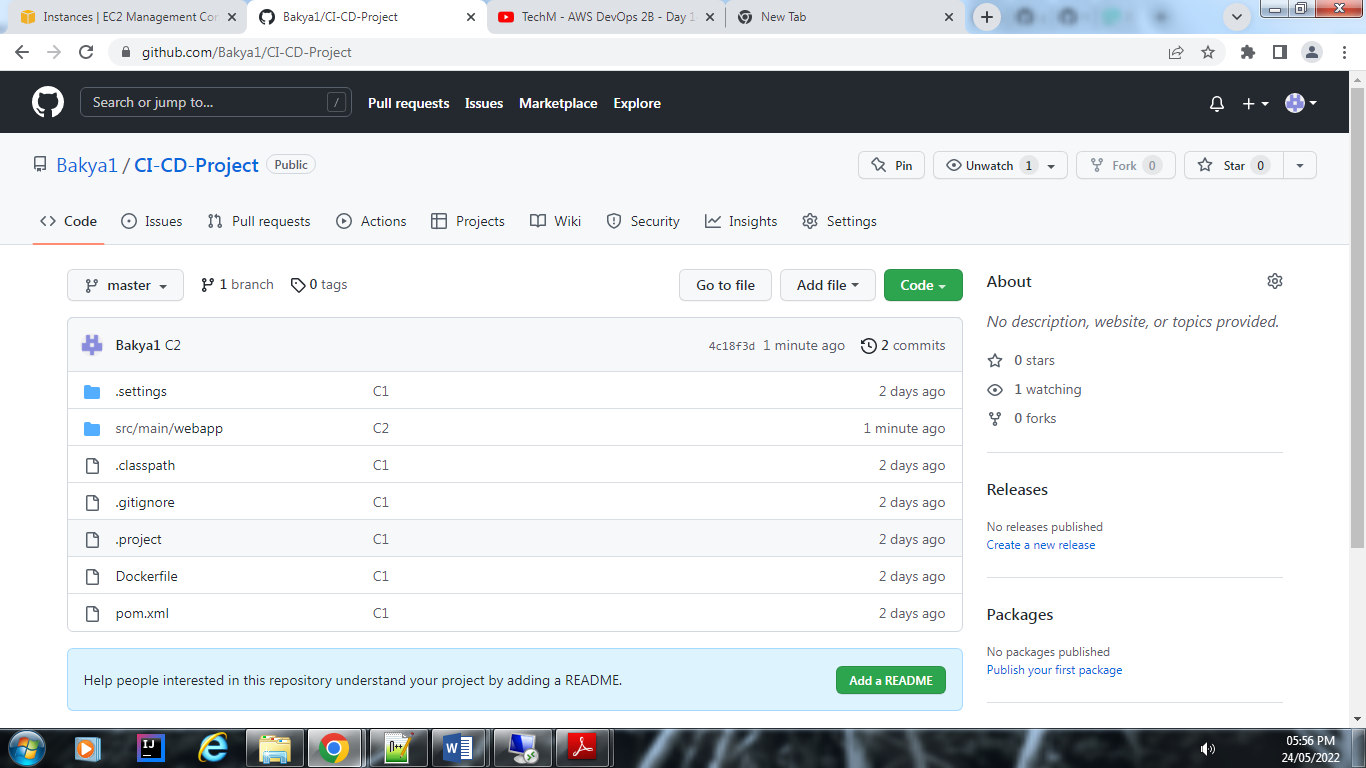


Part2-Phase 4

Modify Project index.jsp, Commit and Push to remote repo

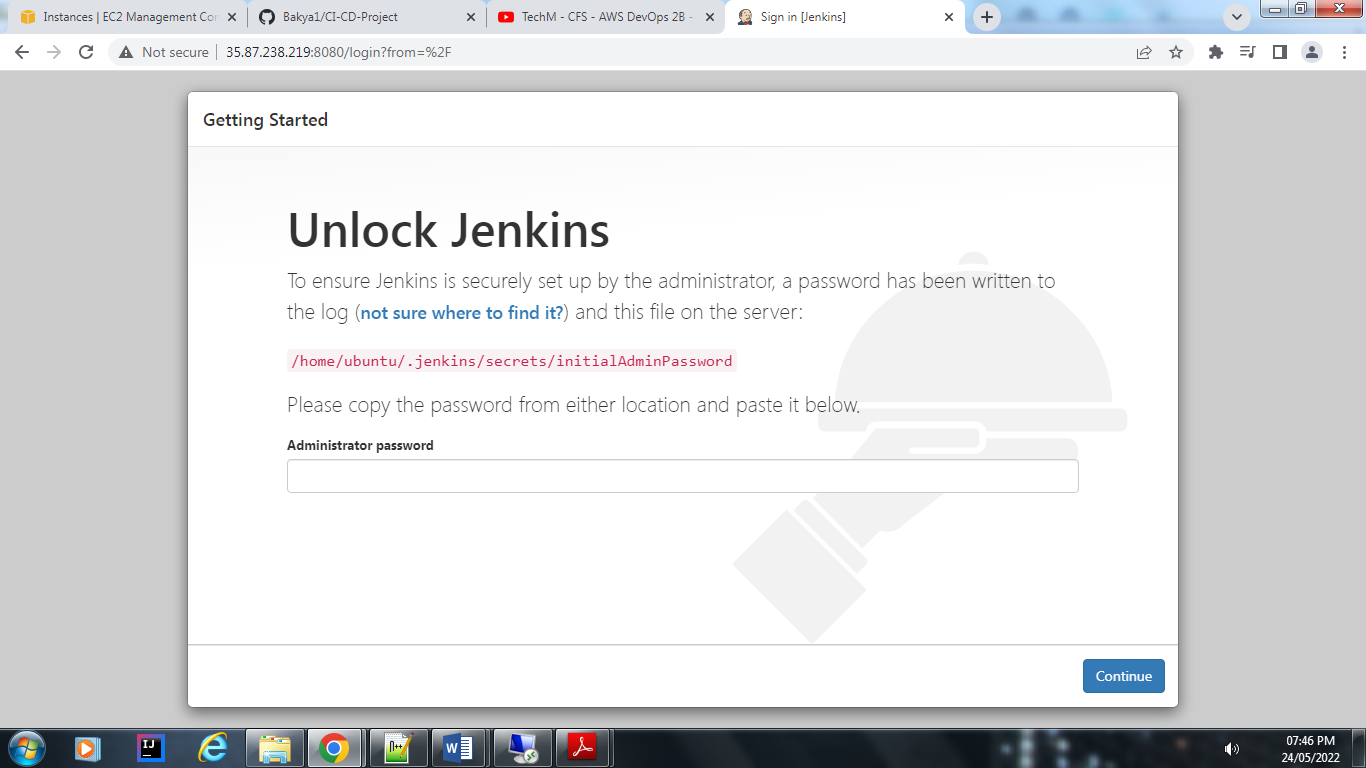


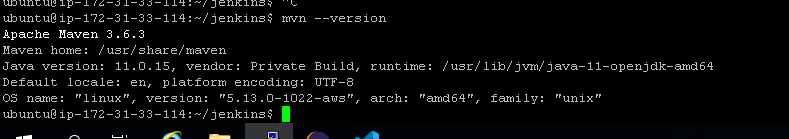
Check for the change in remote Repo



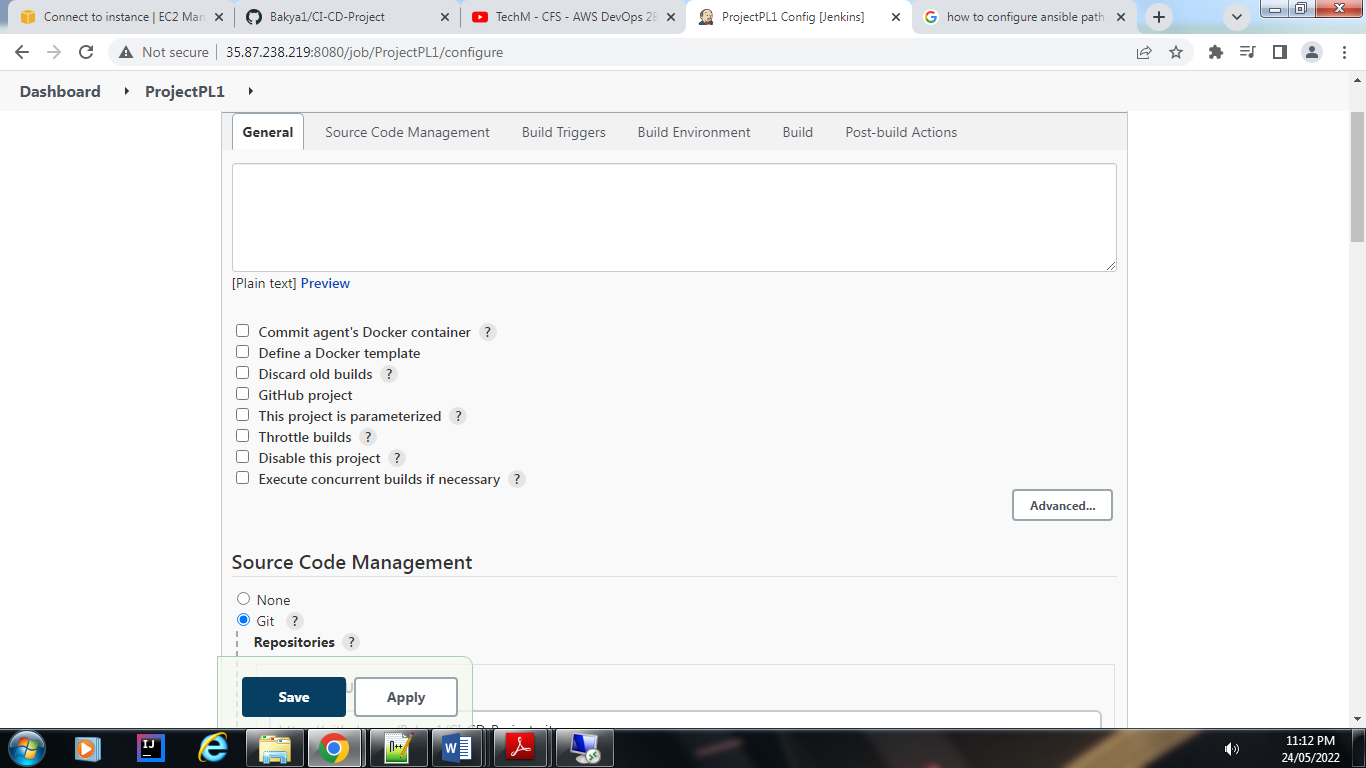
Part 2-Phase 5

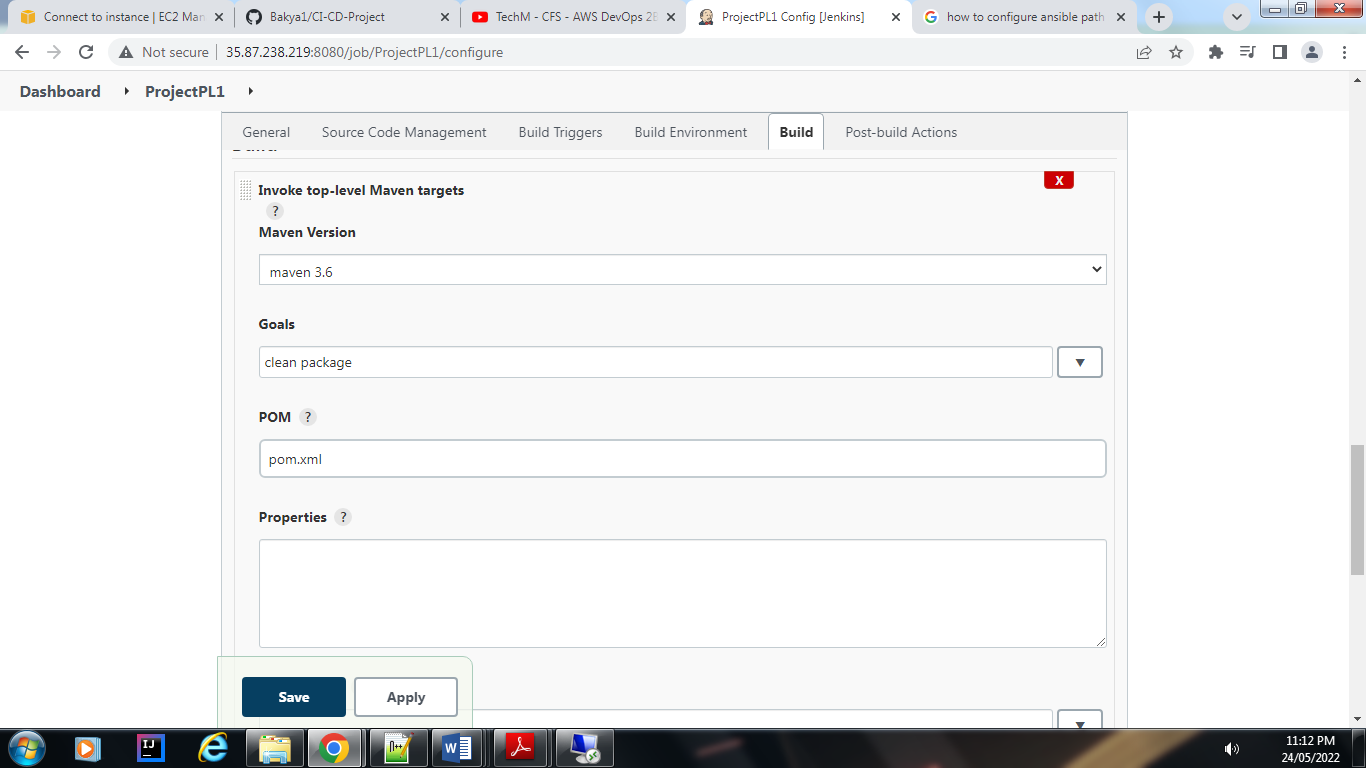
Jenkins configuration and



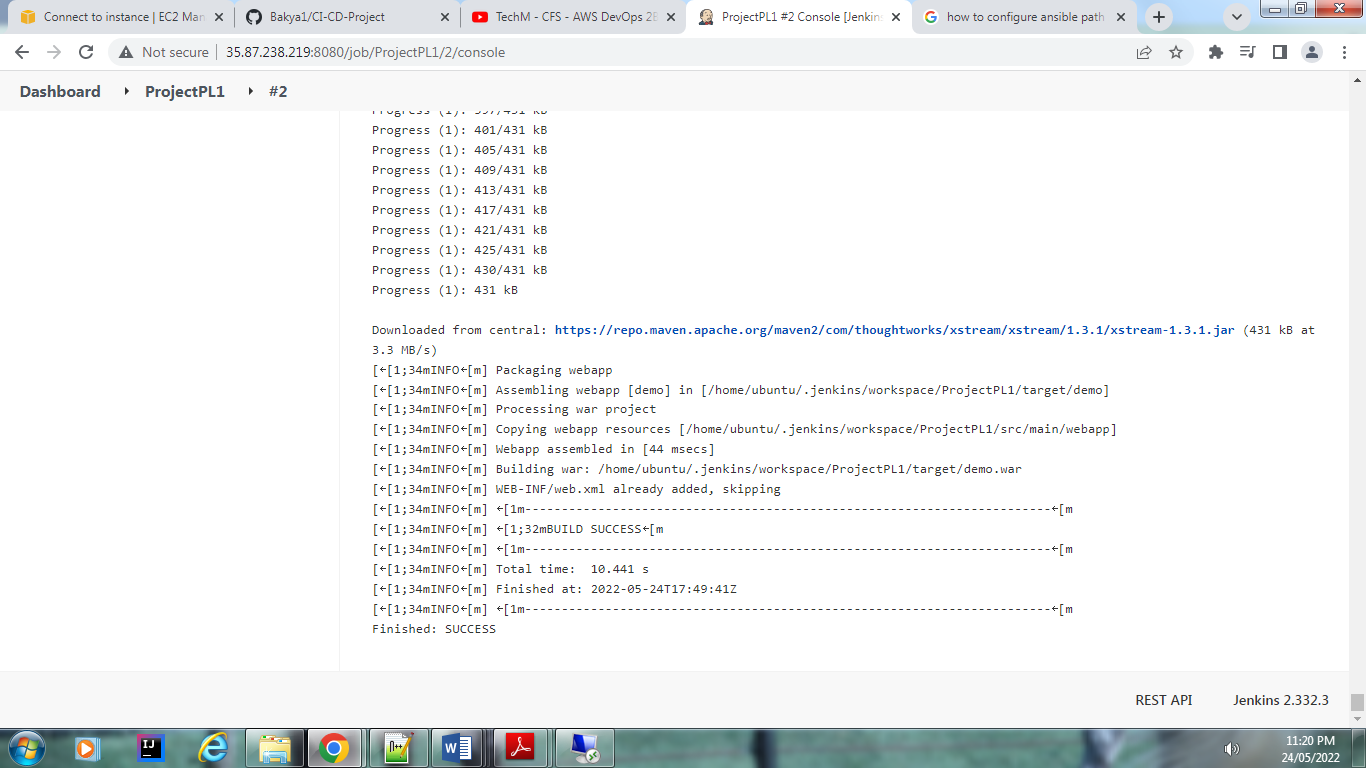


Jenkins pipeline:

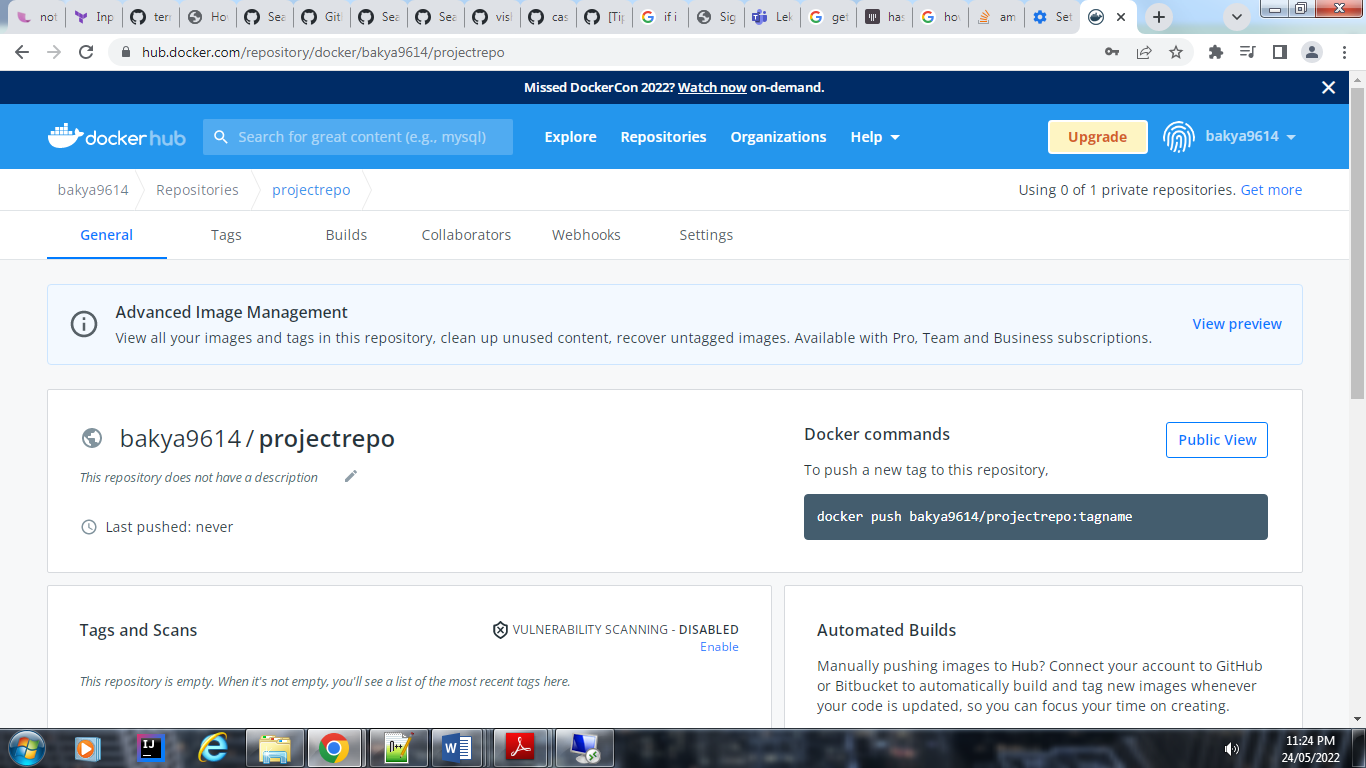




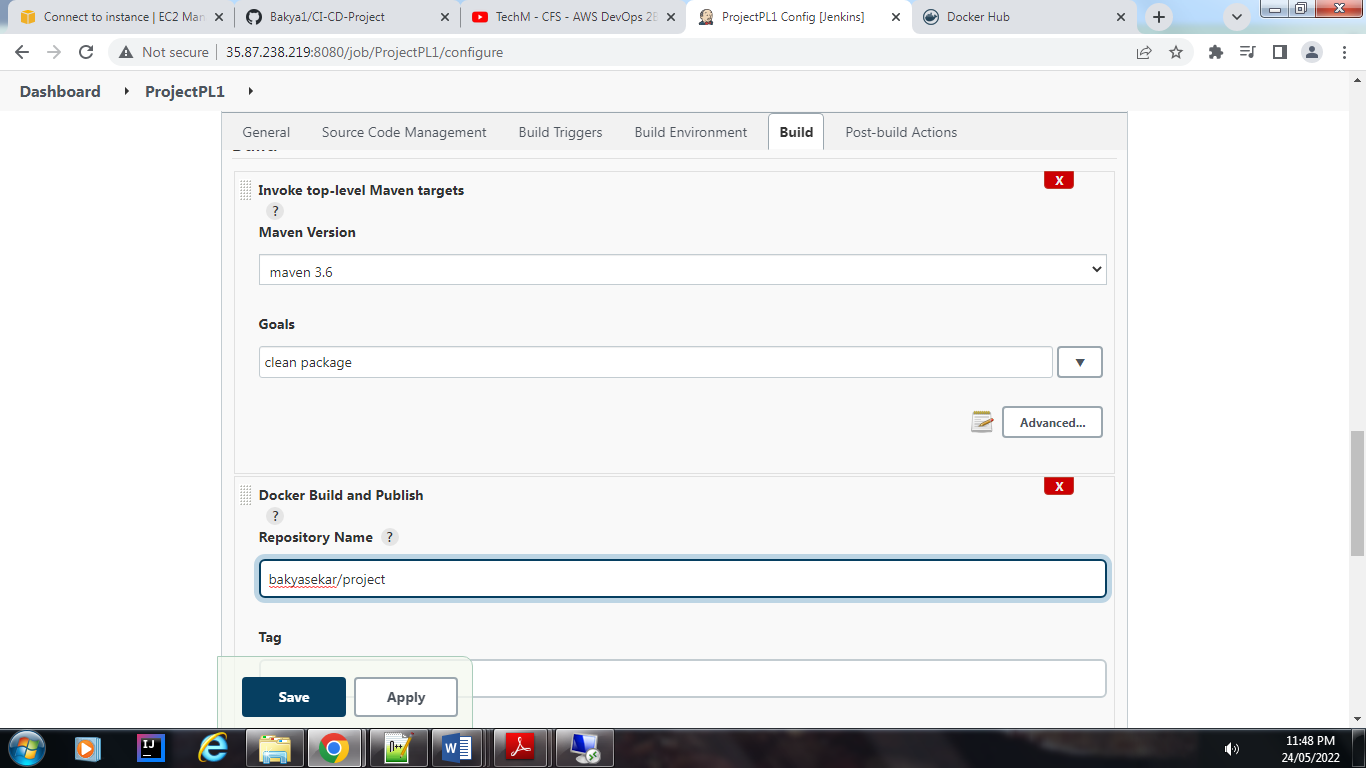
Click on save and click on build now.



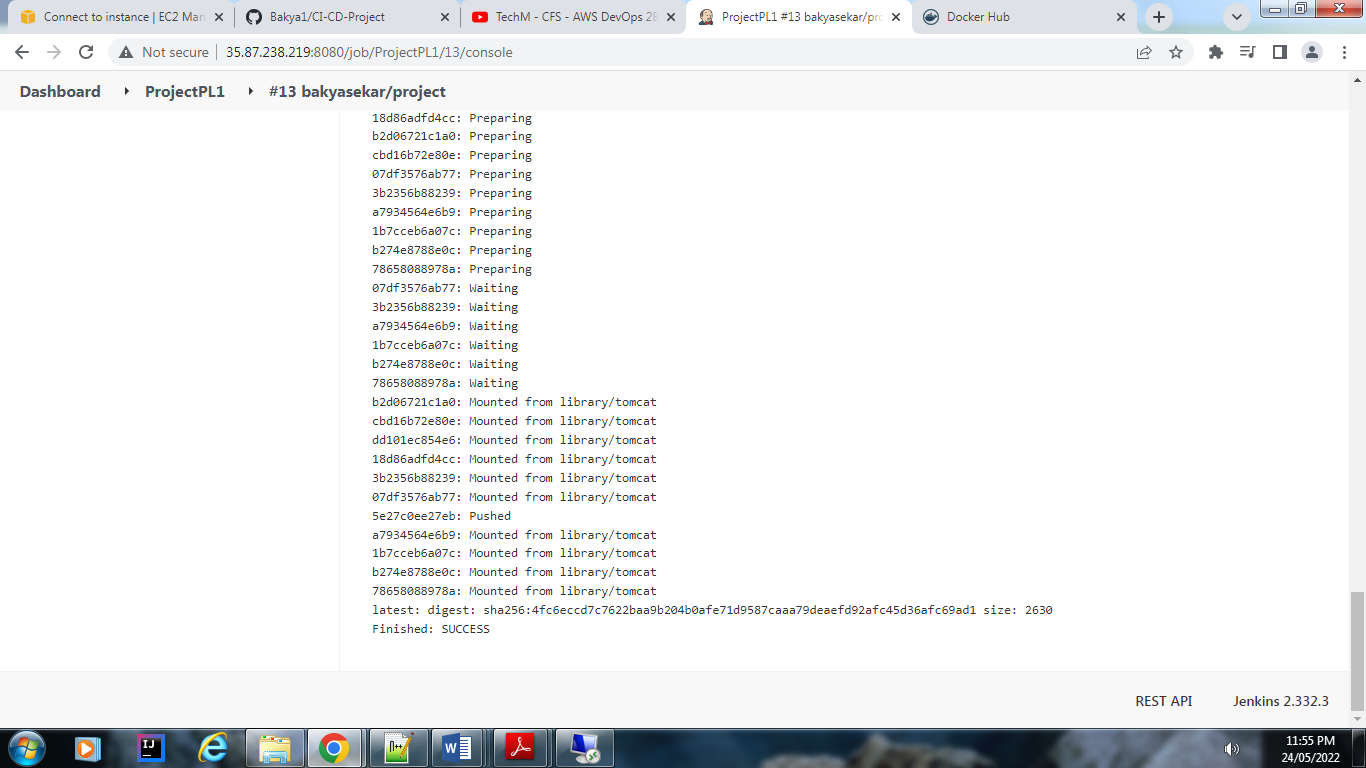
Now login to hub.docker.com and create a repo

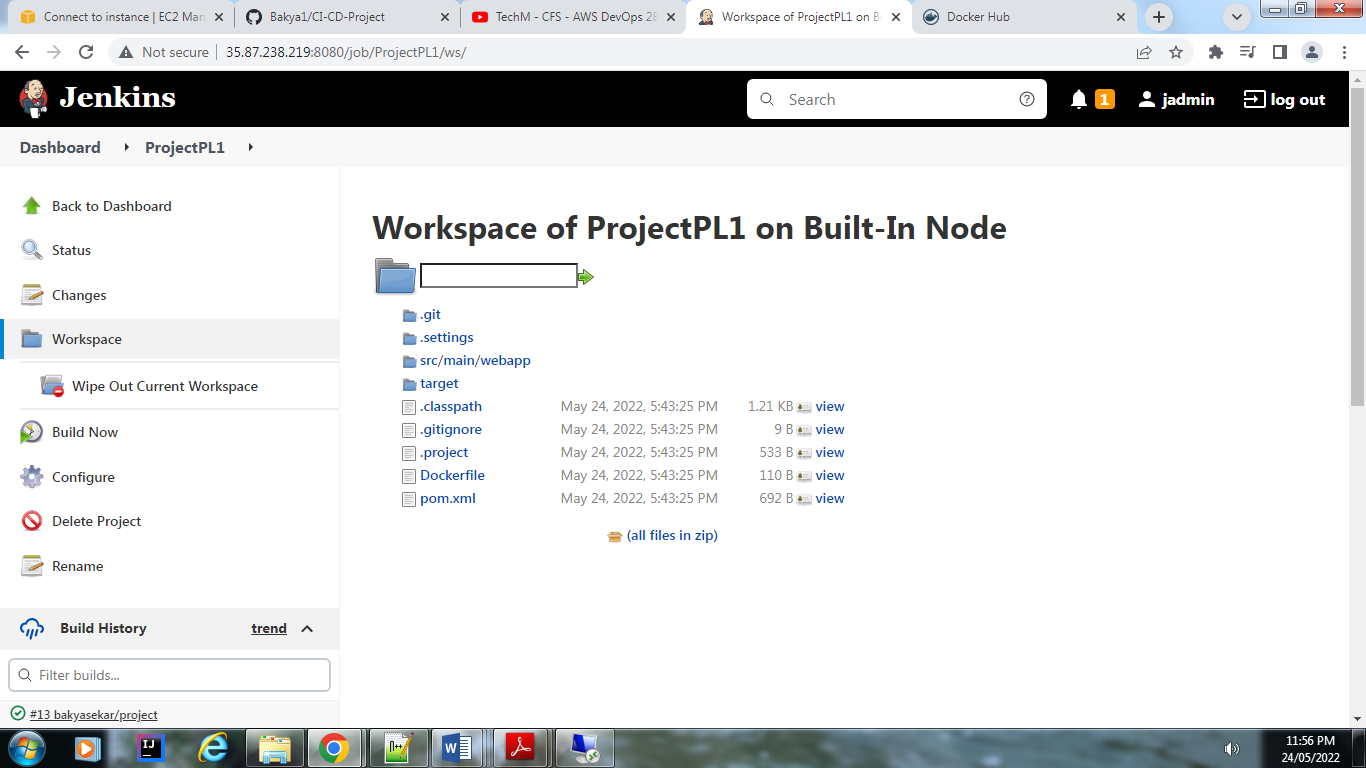


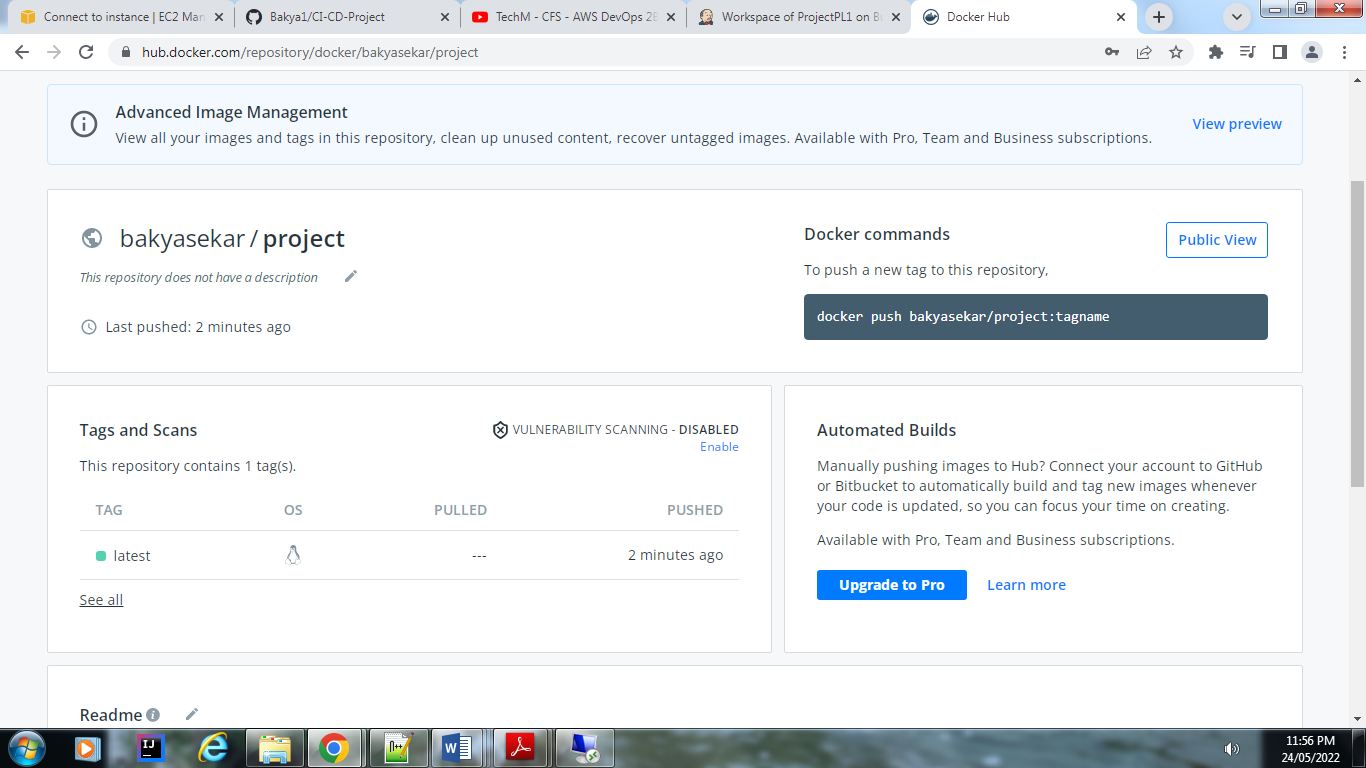
In Jenkins config 🡪 build 🡪add build step 🡪docker build and publish 🡪add repo name and select the credentials 🡪save



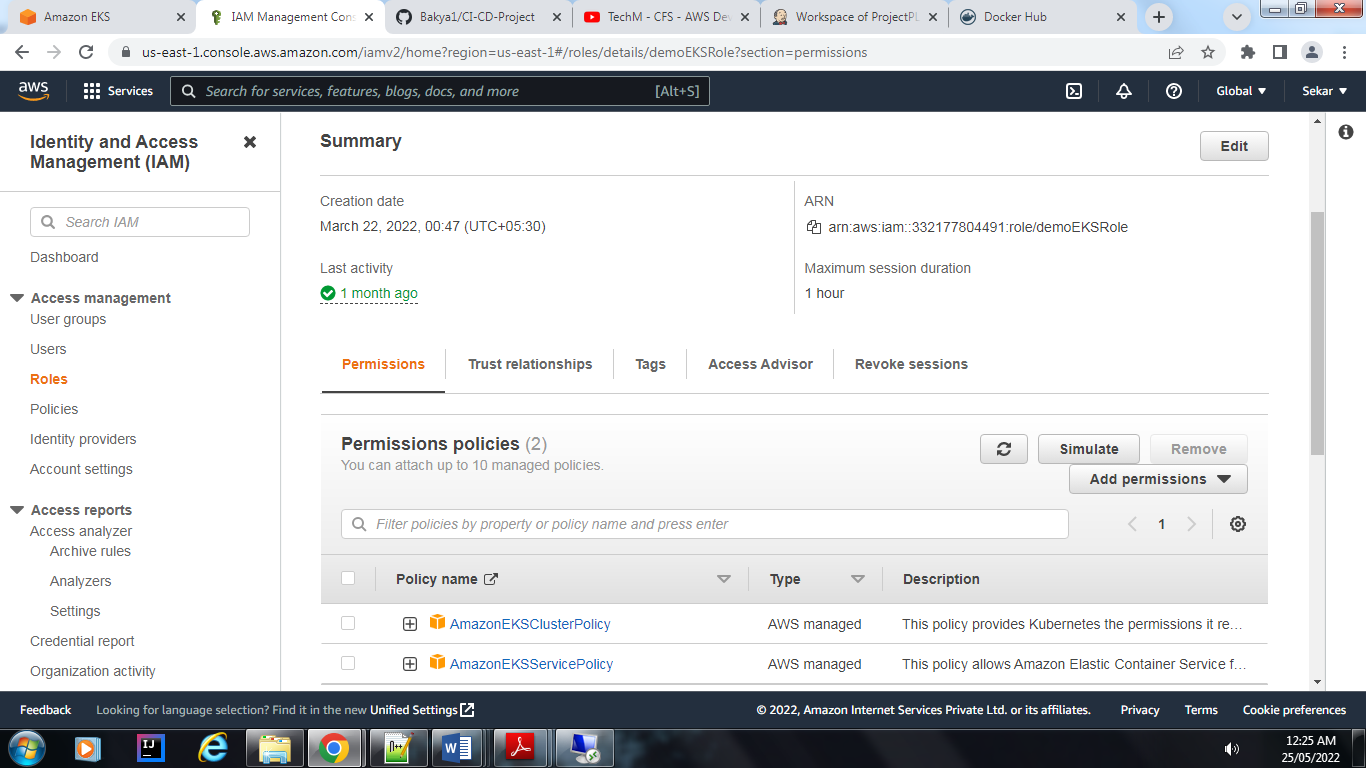
Click on build now

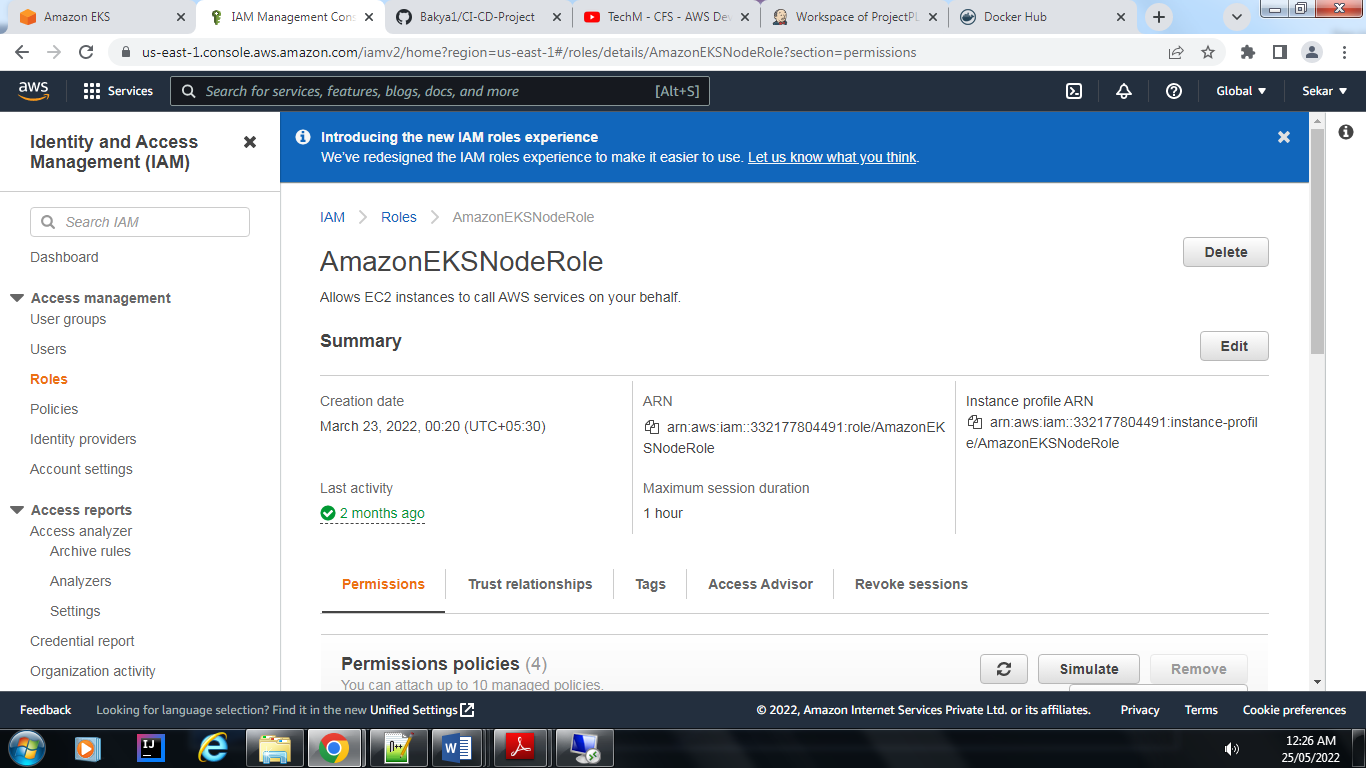


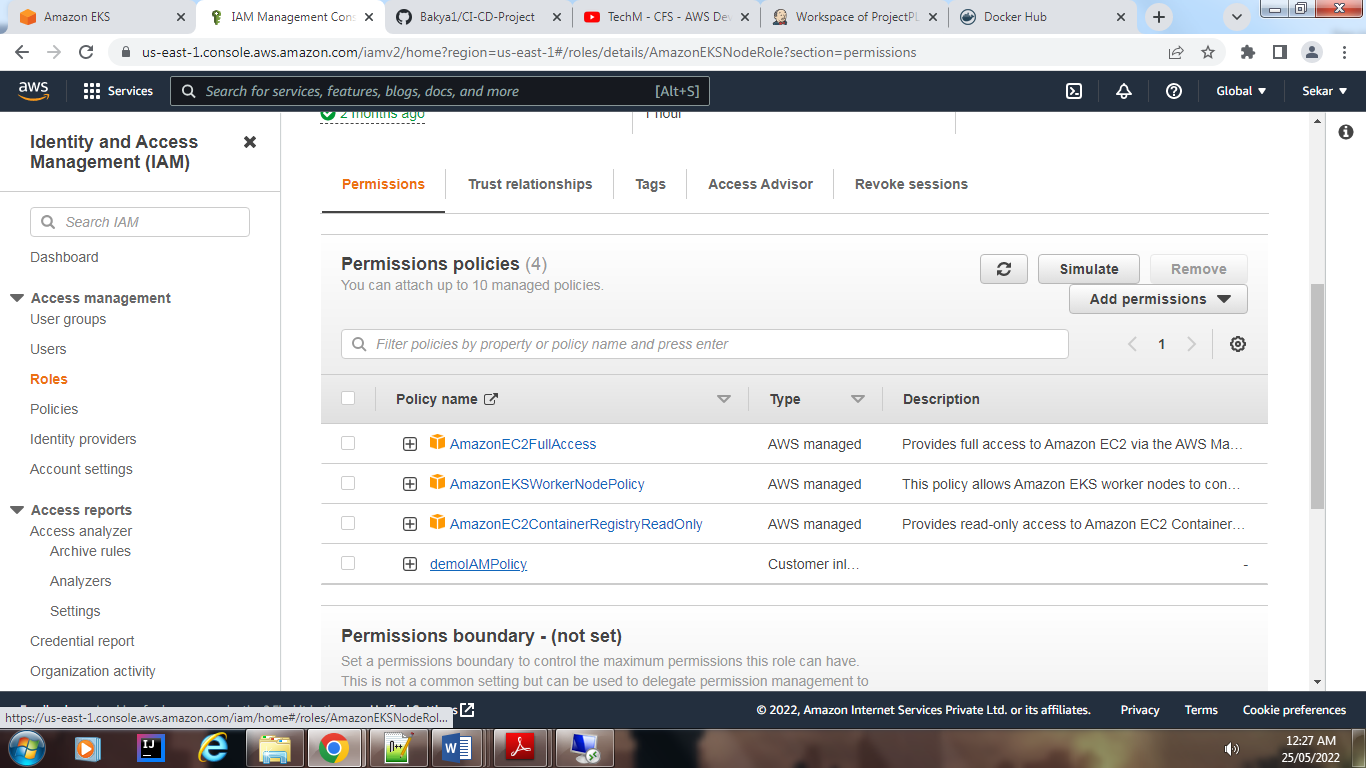


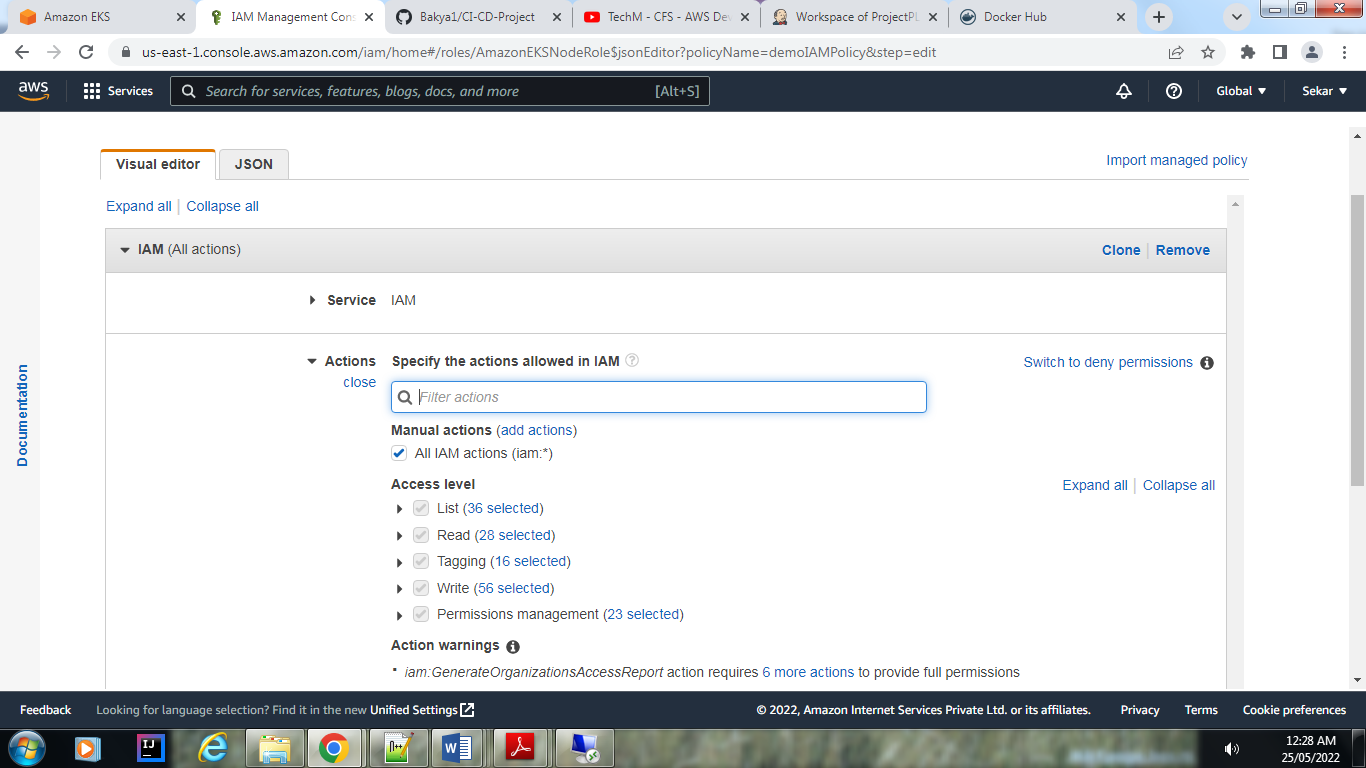


Create EKS cluster :

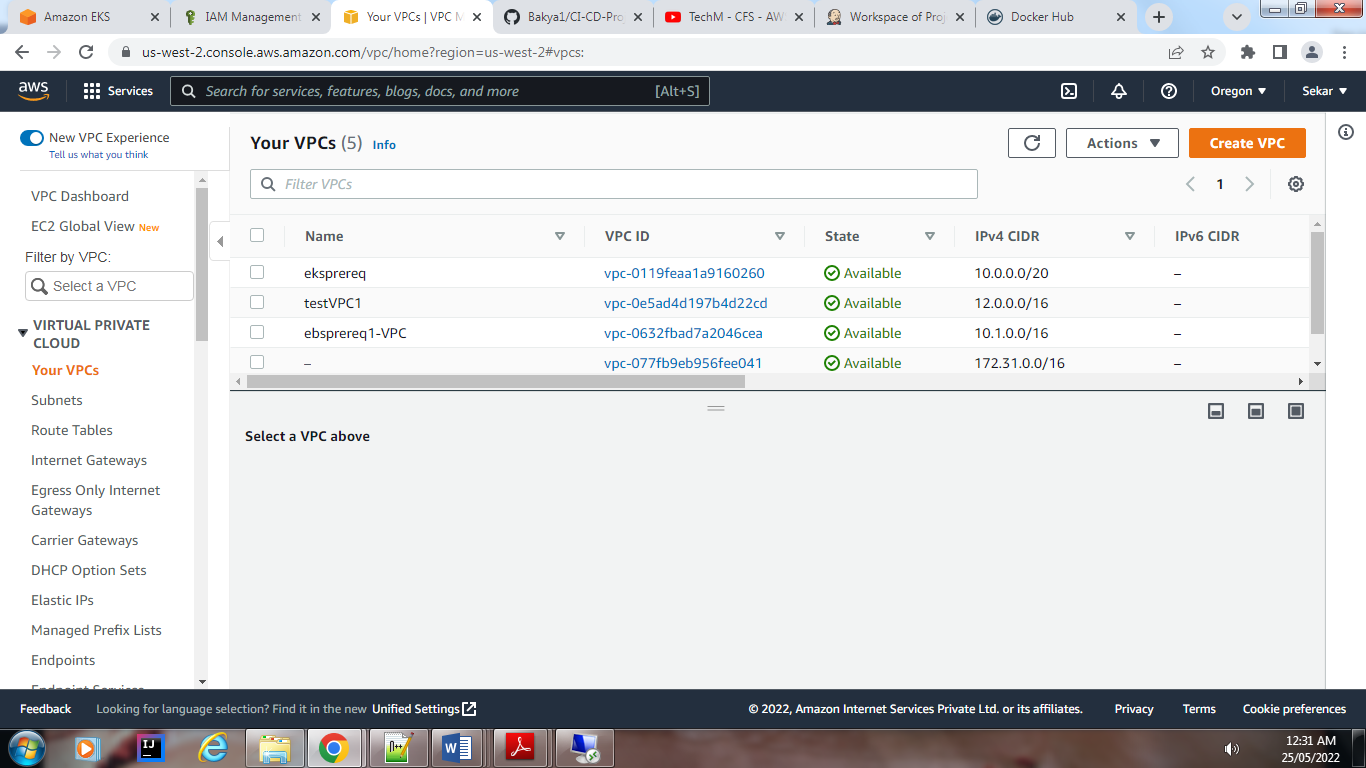




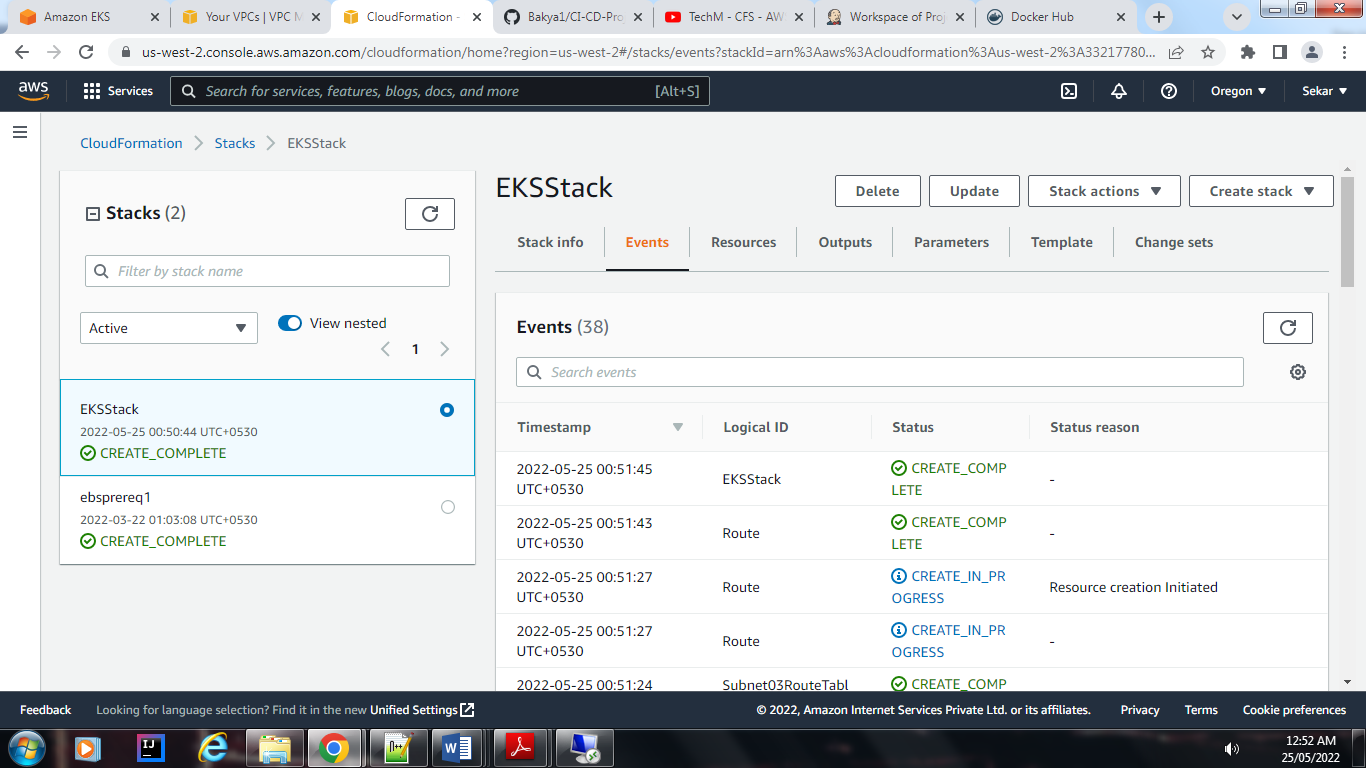




Create VPC:



CF:



EKS cluster:

