**Part-1**

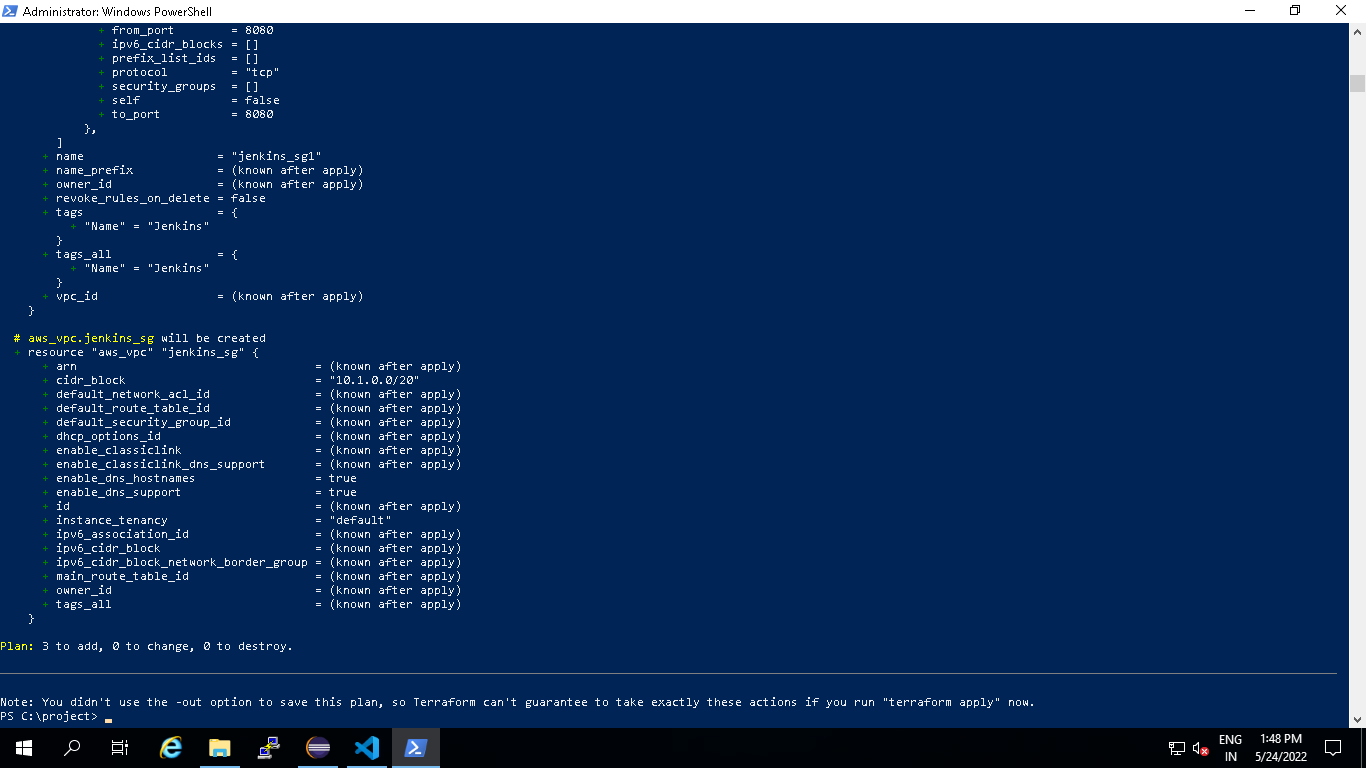
**Create Jenkins server environment in AWS using Terraform**

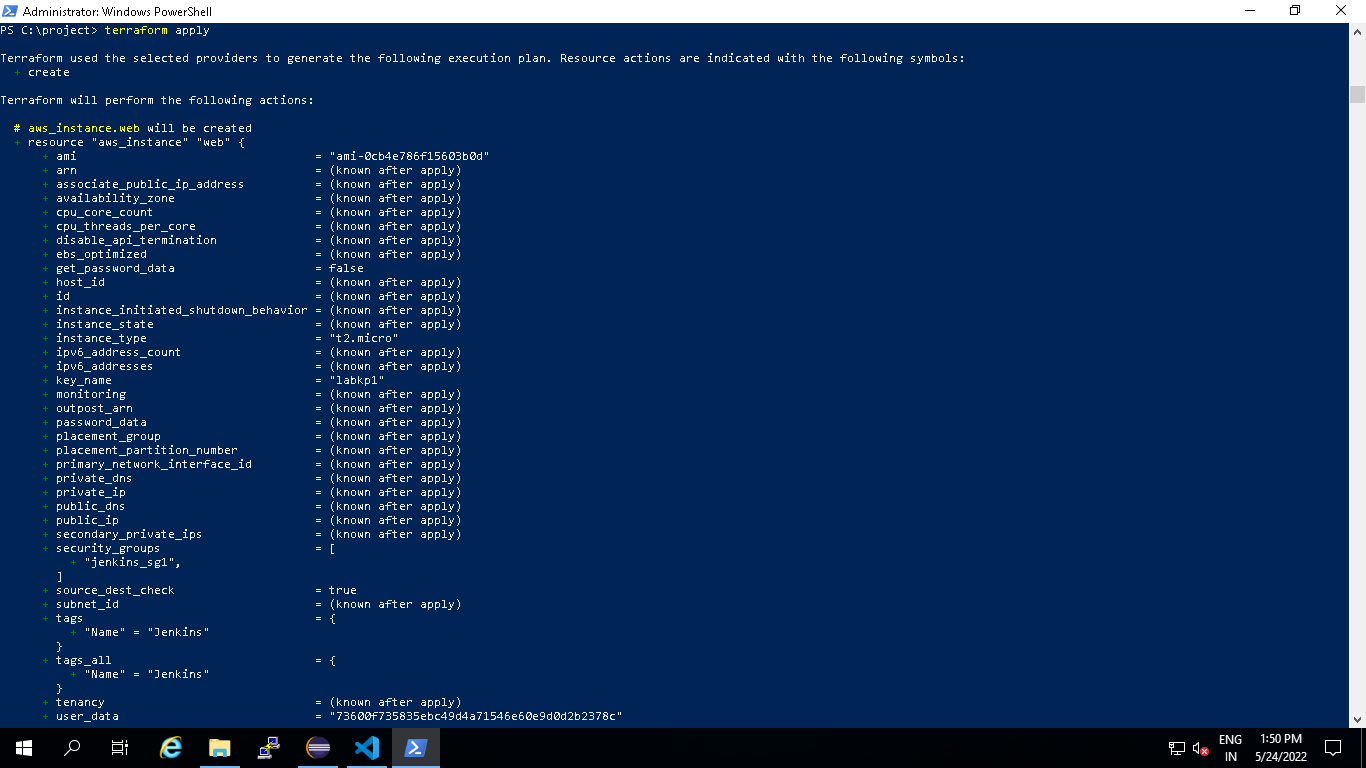
Commands used:

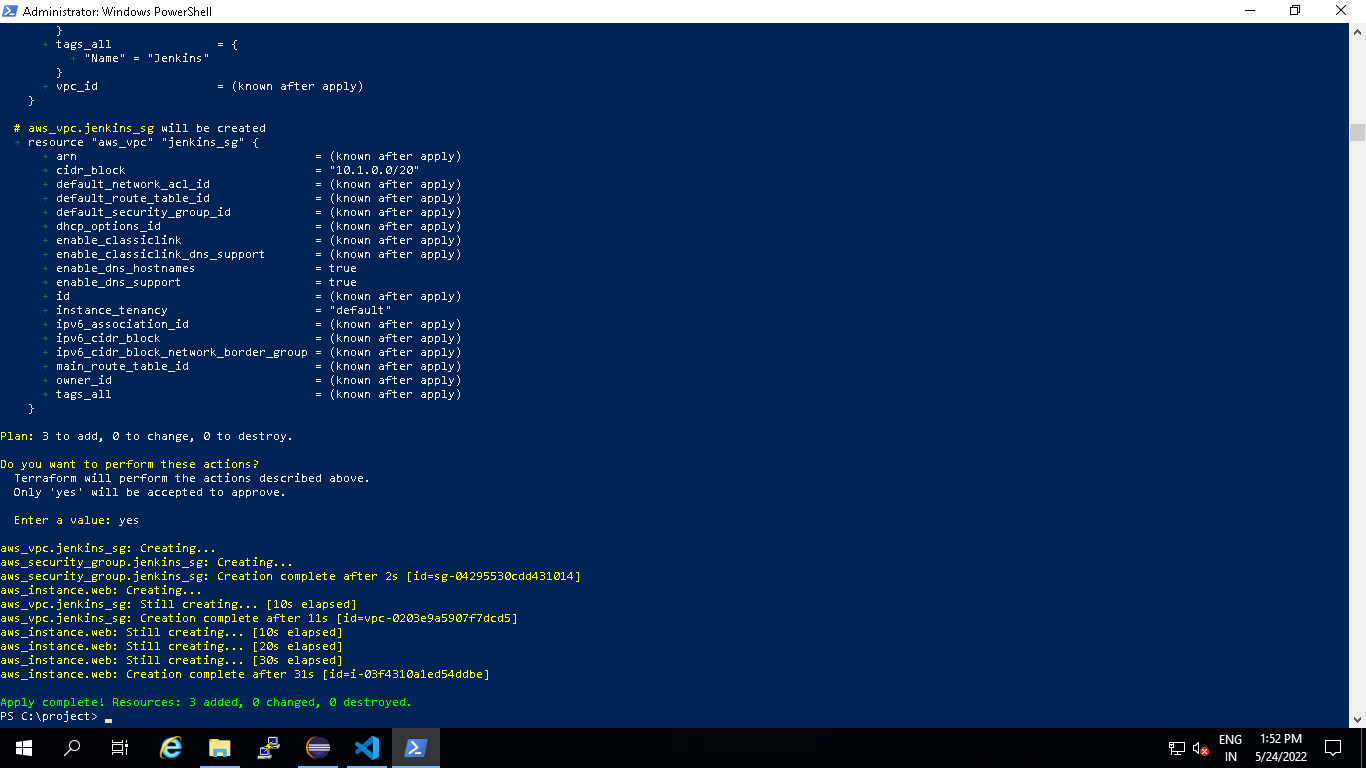
Terraform init

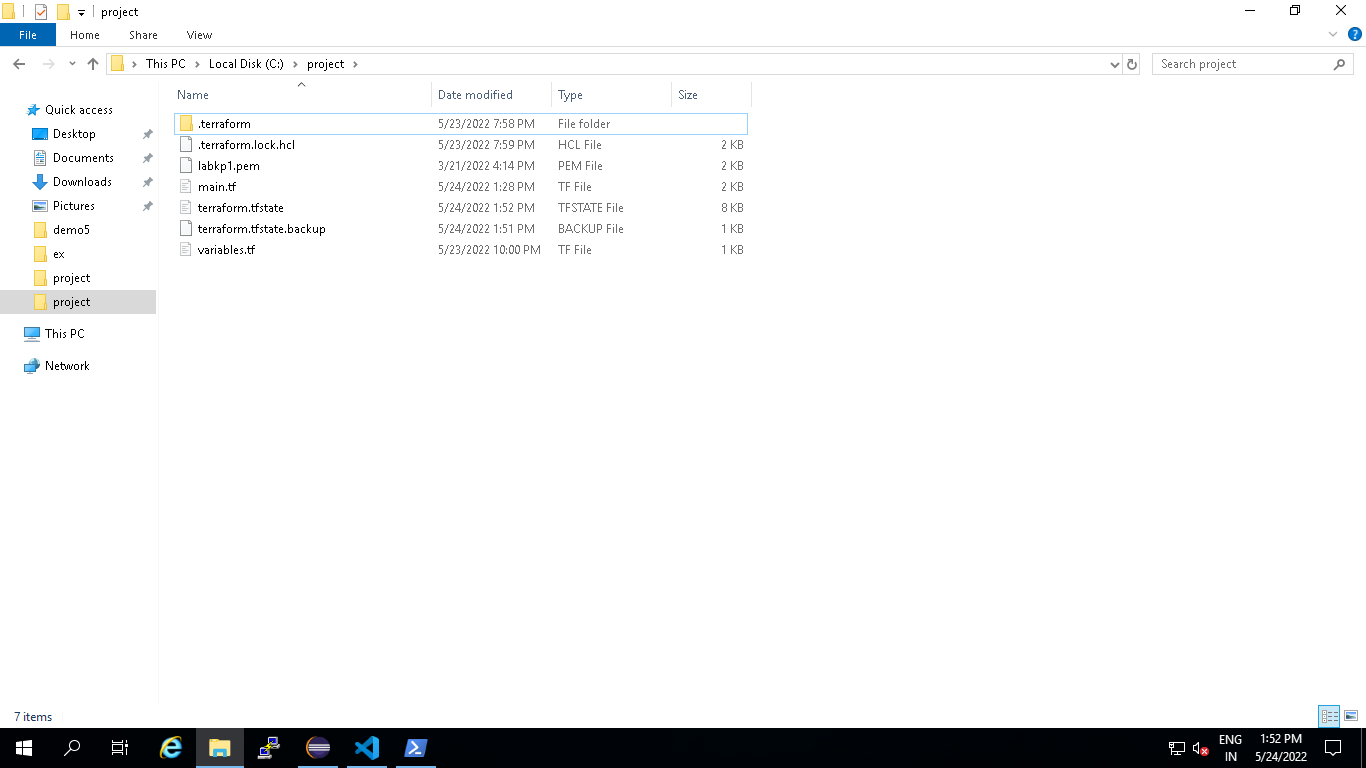
Terraform plan

Terraform apply



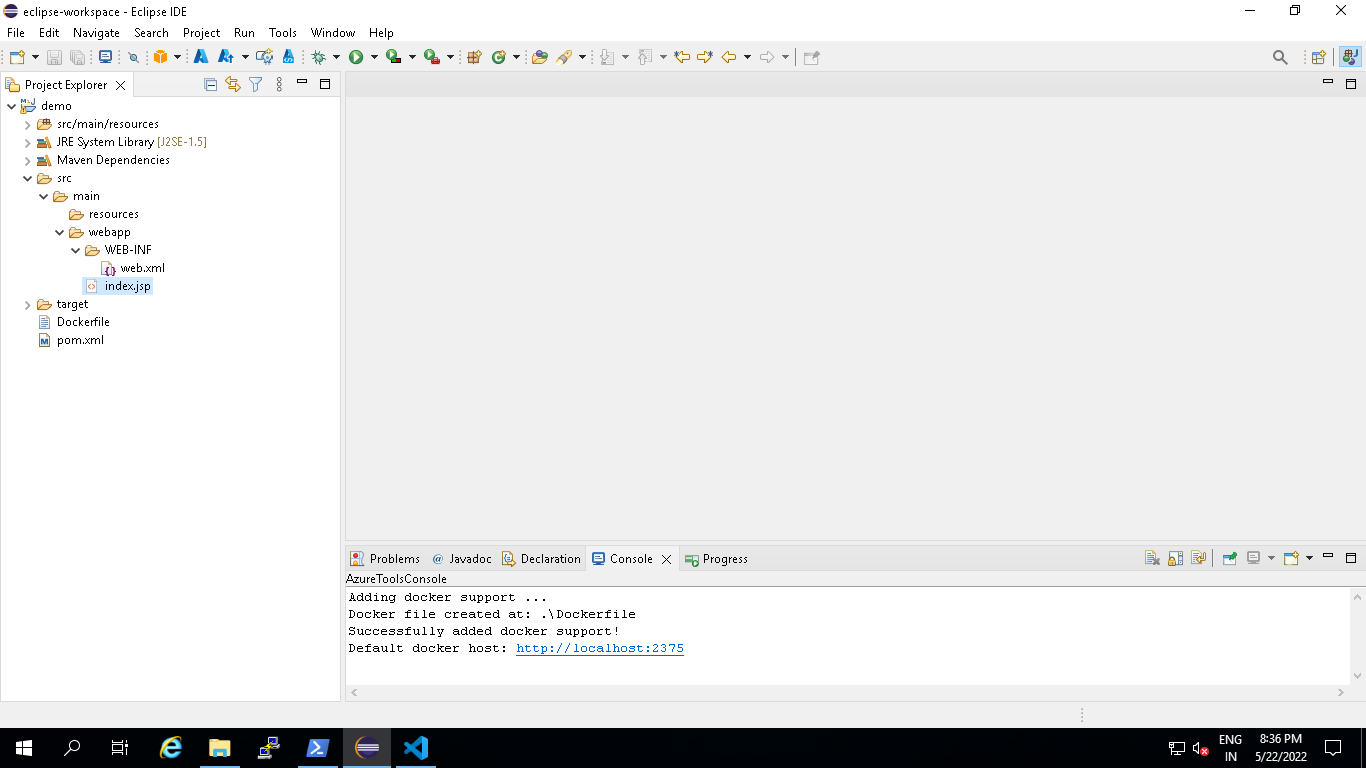




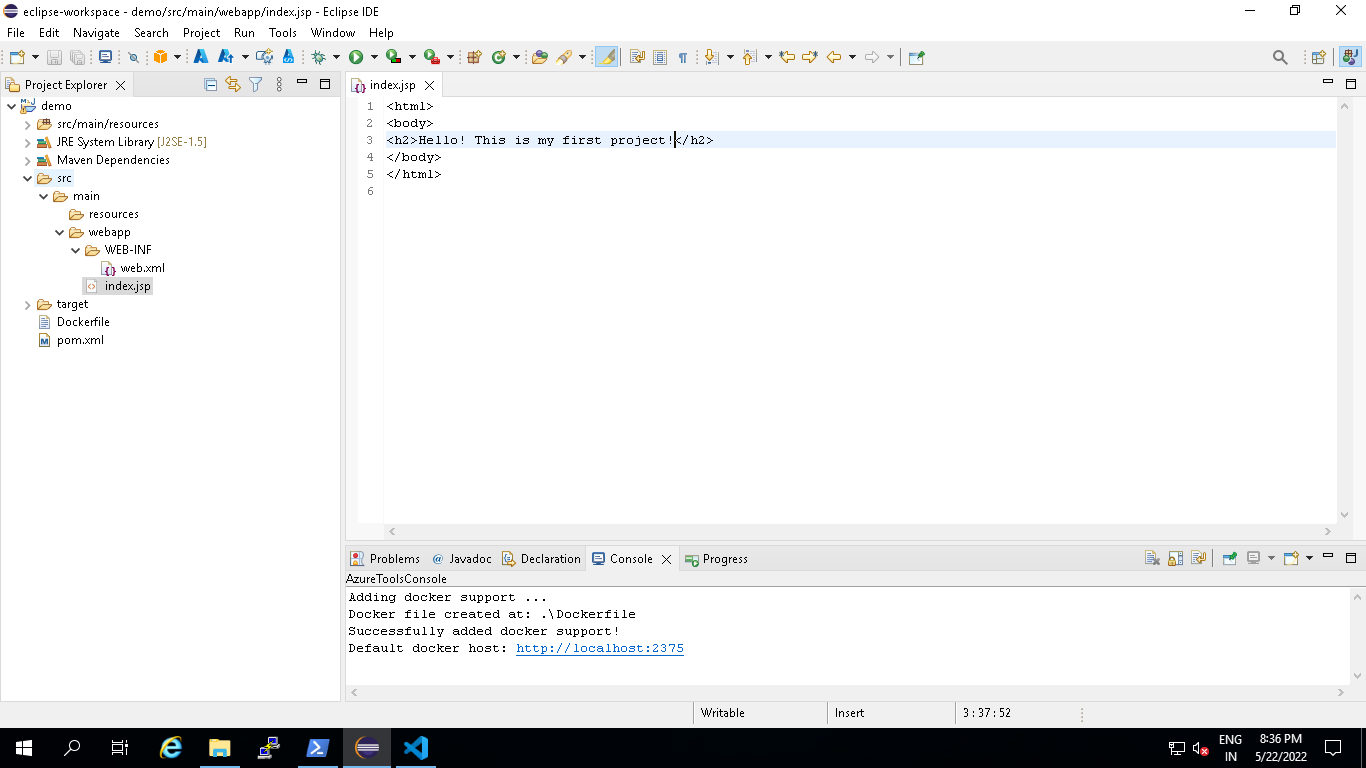


**Part-2: Phase 1**

**Create Maven Project with Archtype as web application in eclipse**

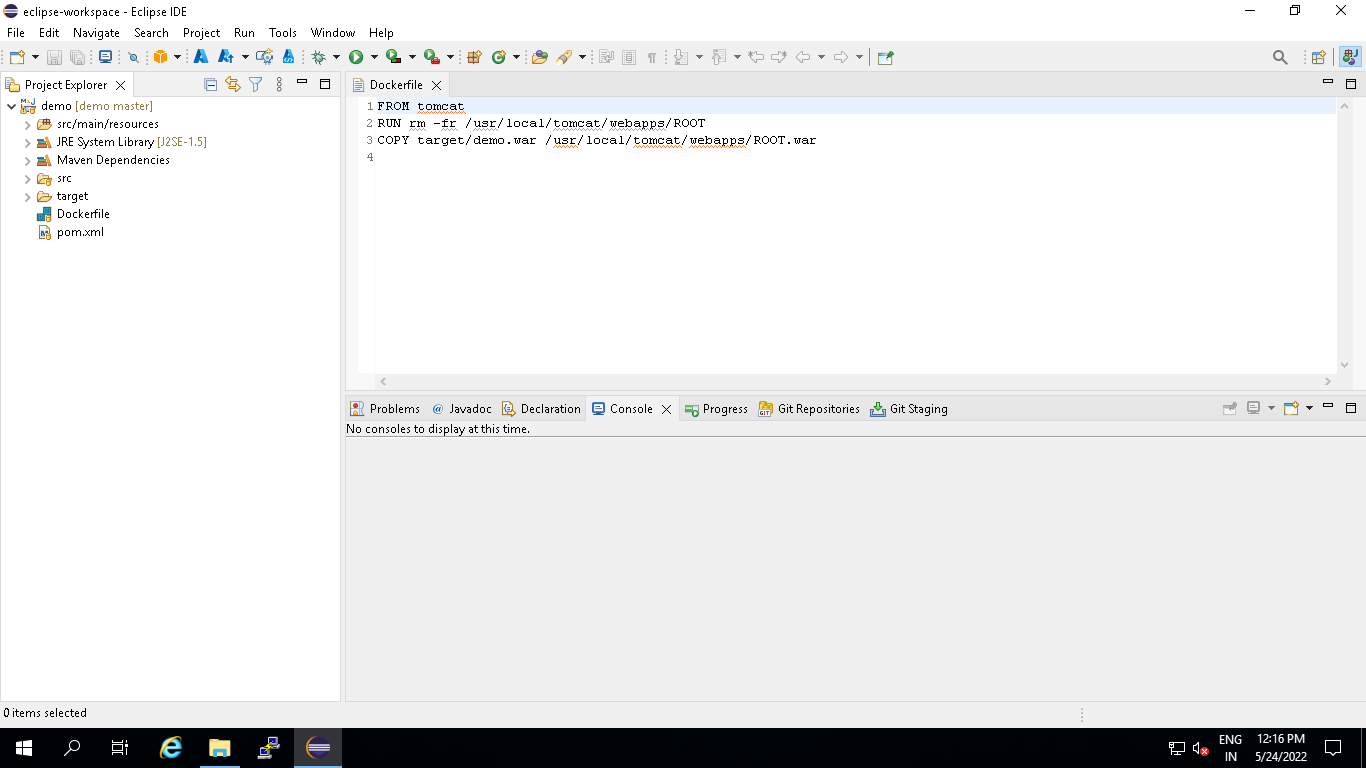


Modify index.jsp under src/main/webcontent



**Part 2-Phase2:**

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

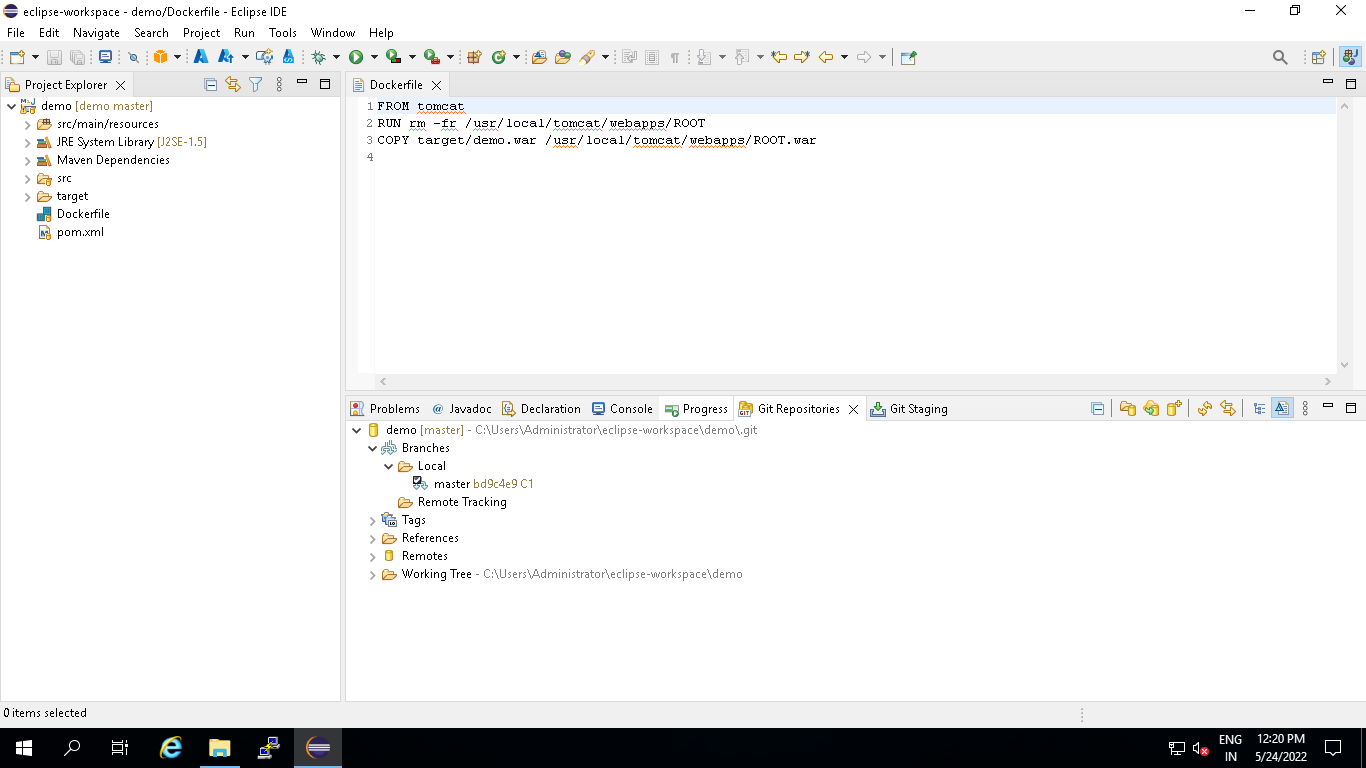


**Part 2-Phase 3**

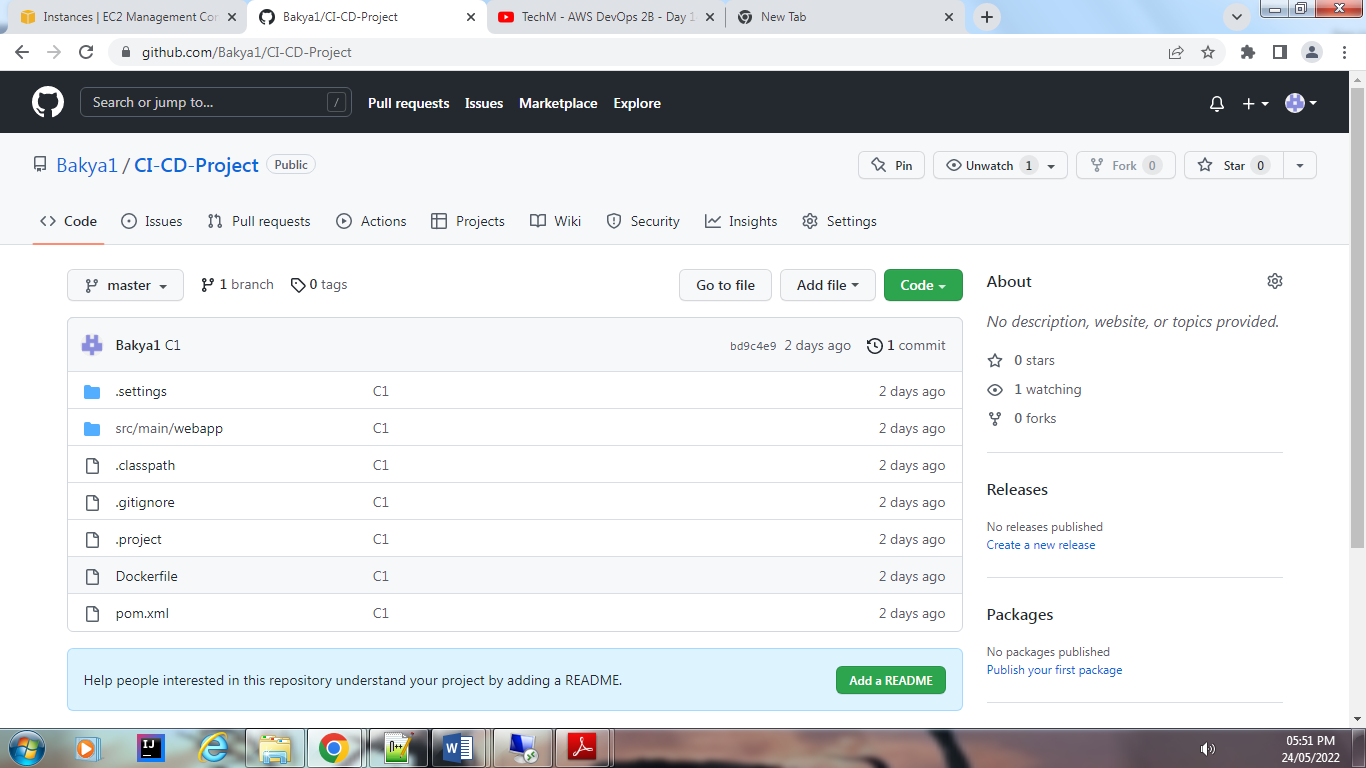
**Create a git hub repository and copy the repo URL**

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

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

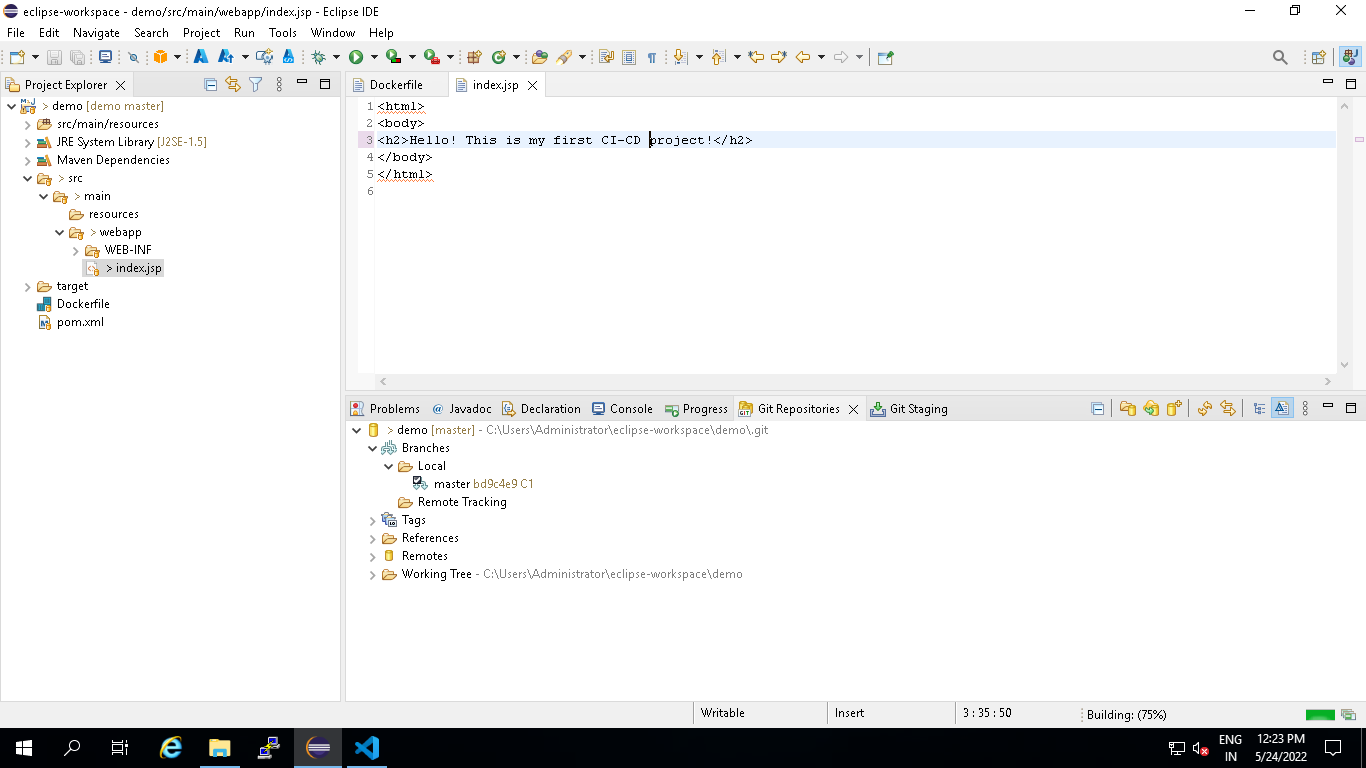


Commit and Push the code to remote repo

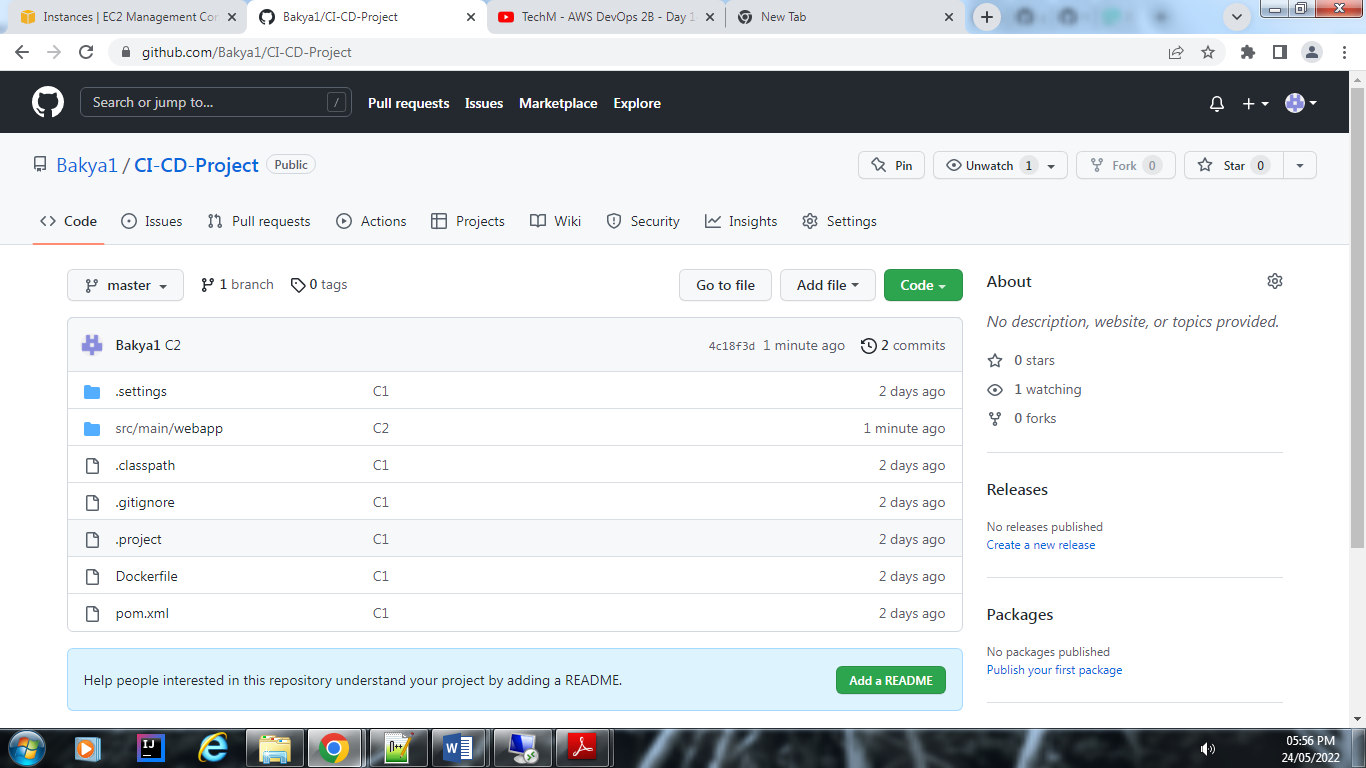


**Part2-Phase 4**

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

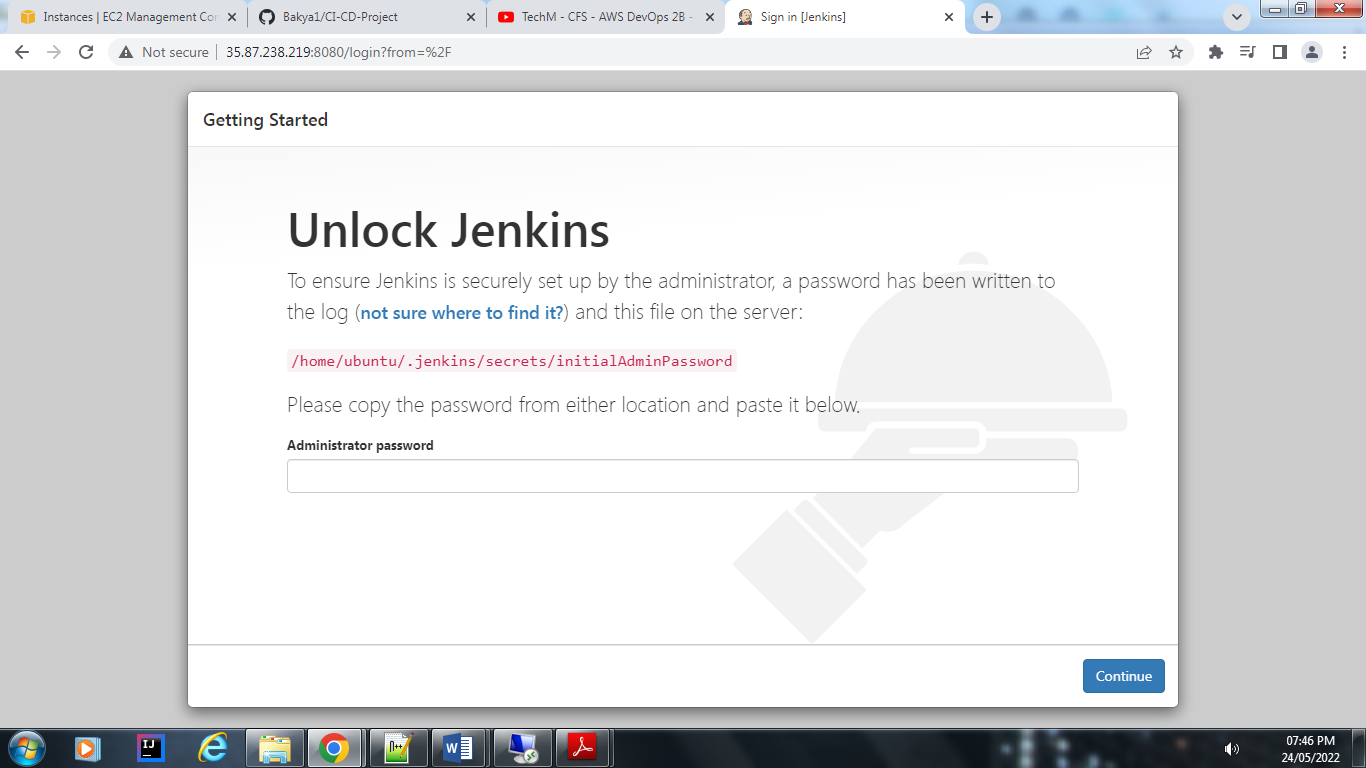


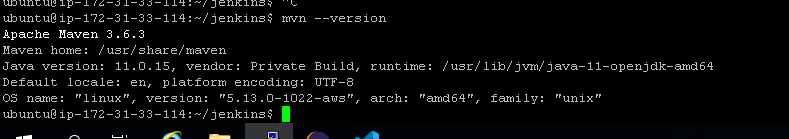
**Check for the change in remote Repo**



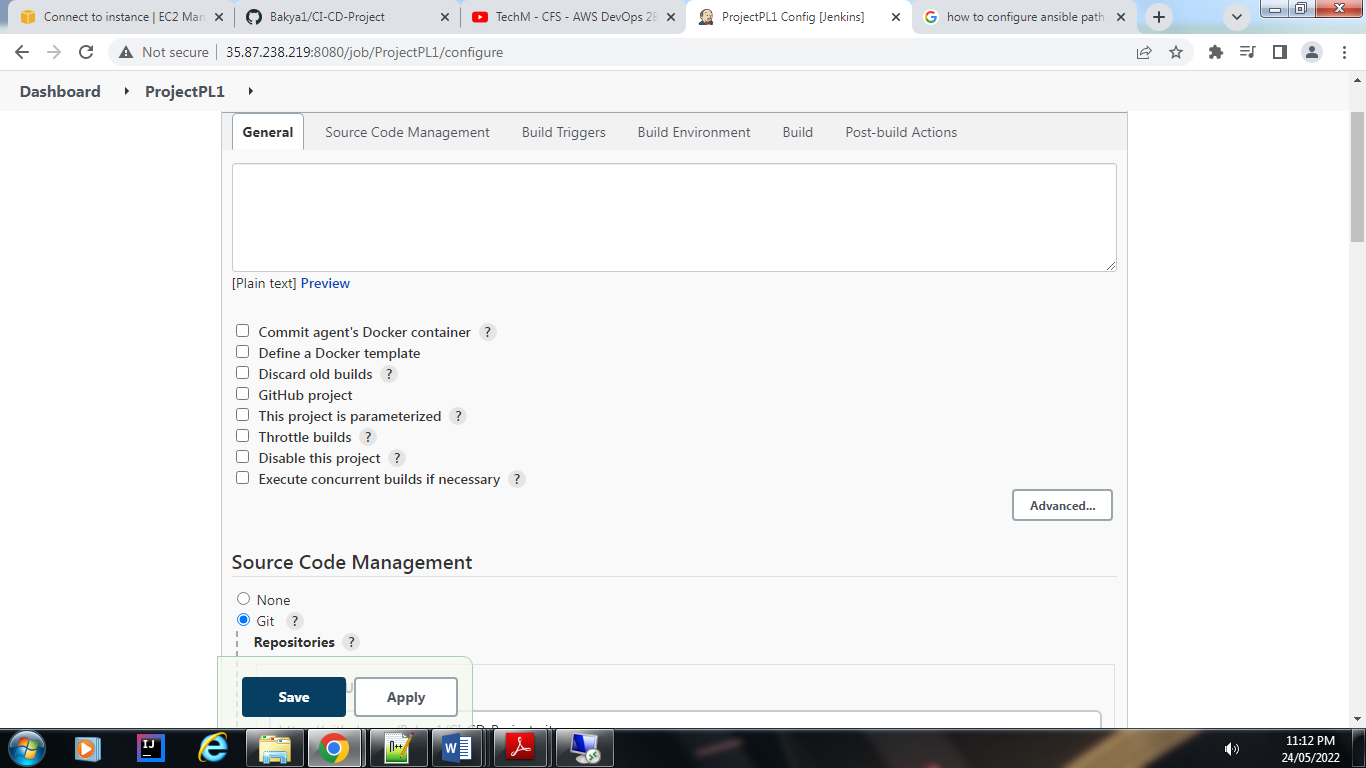
**Part 2-Phase 5**

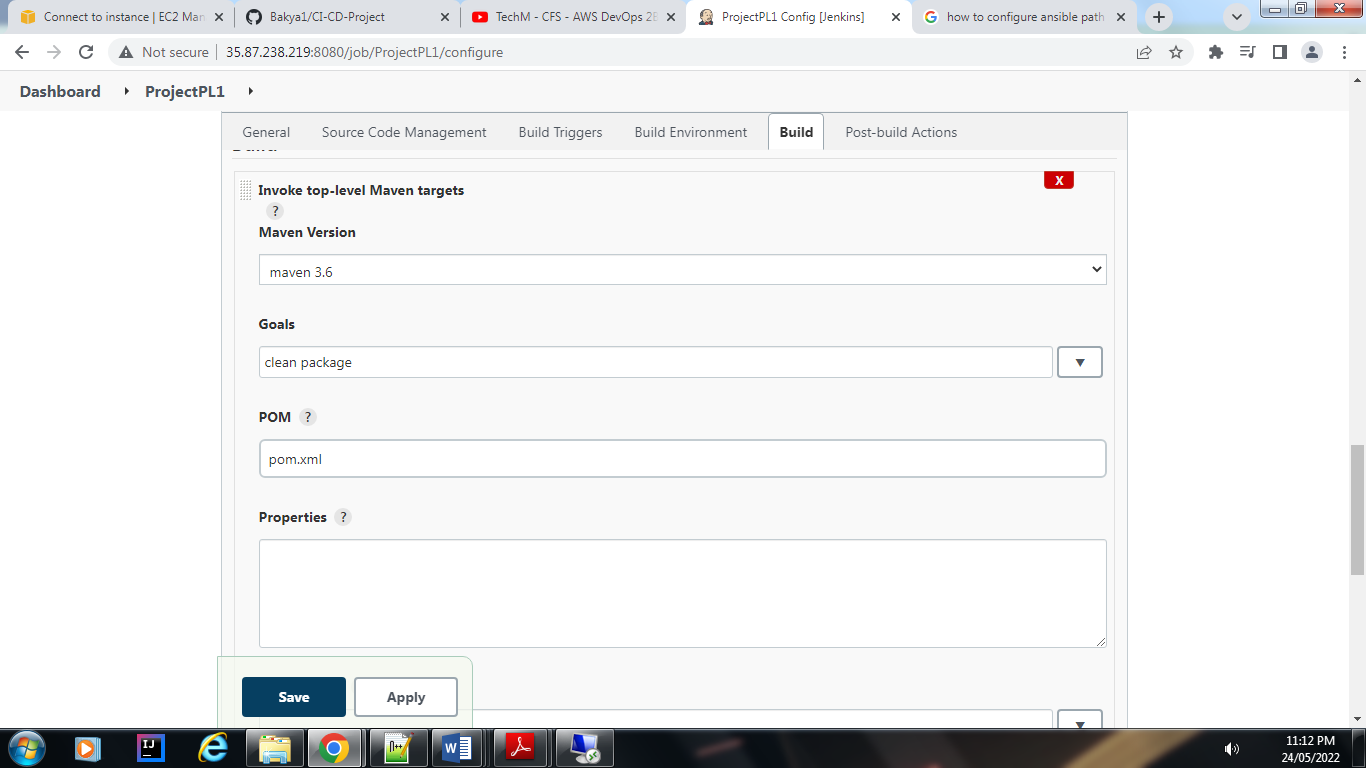
Jenkins configuration



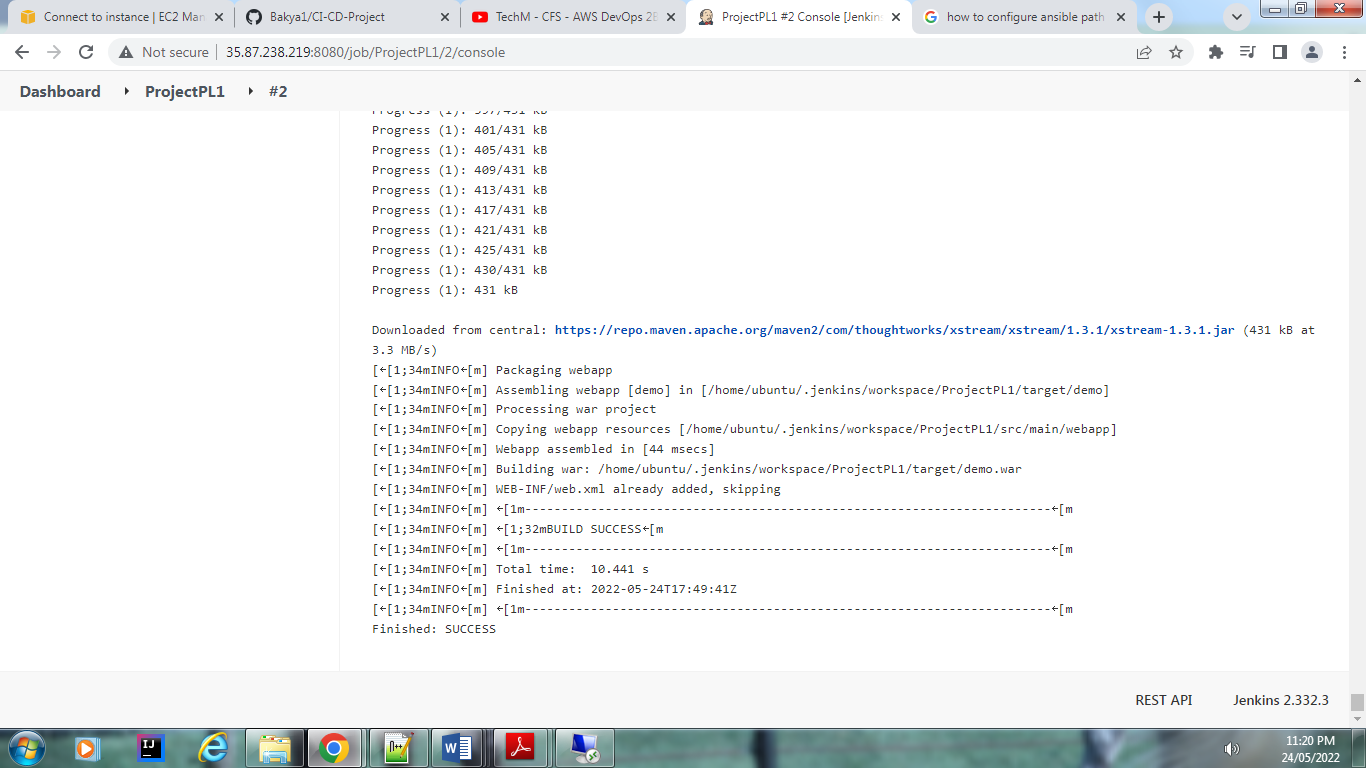


Jenkins pipeline:

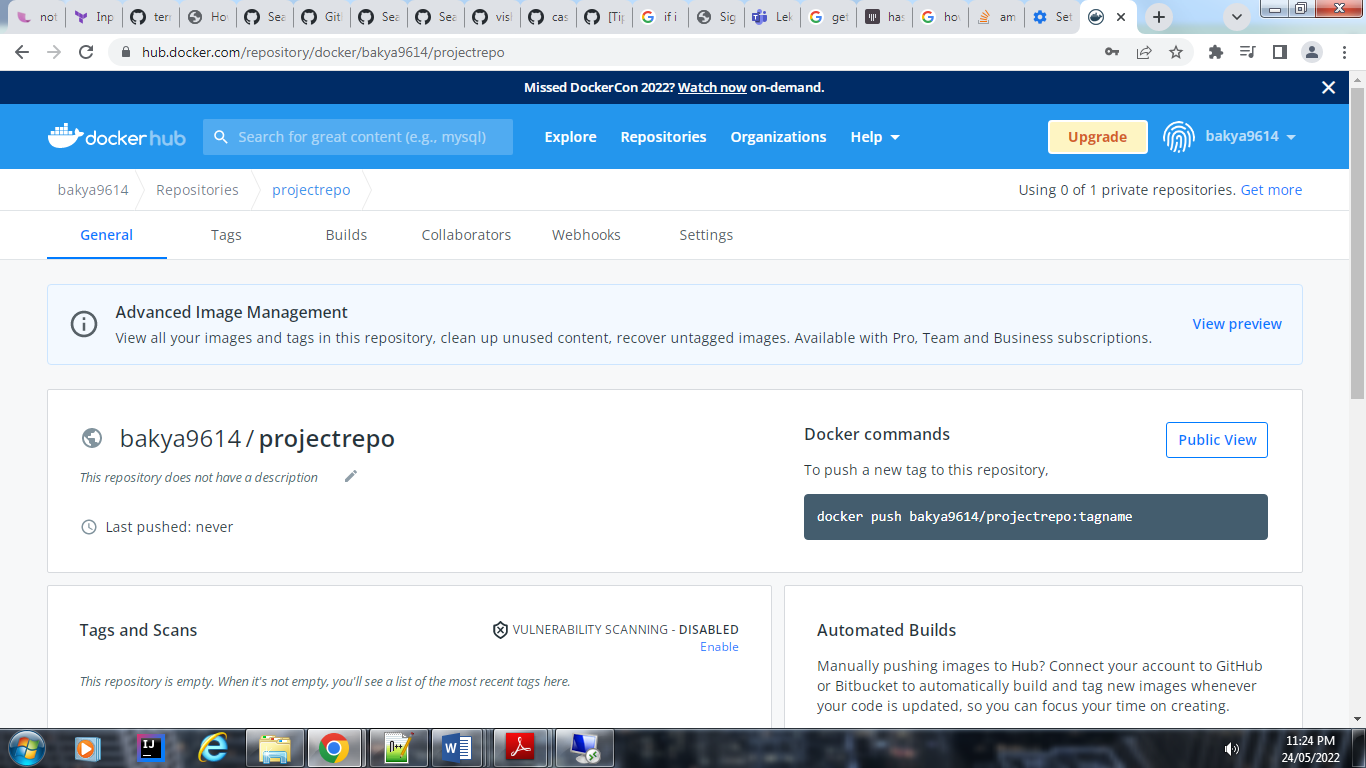




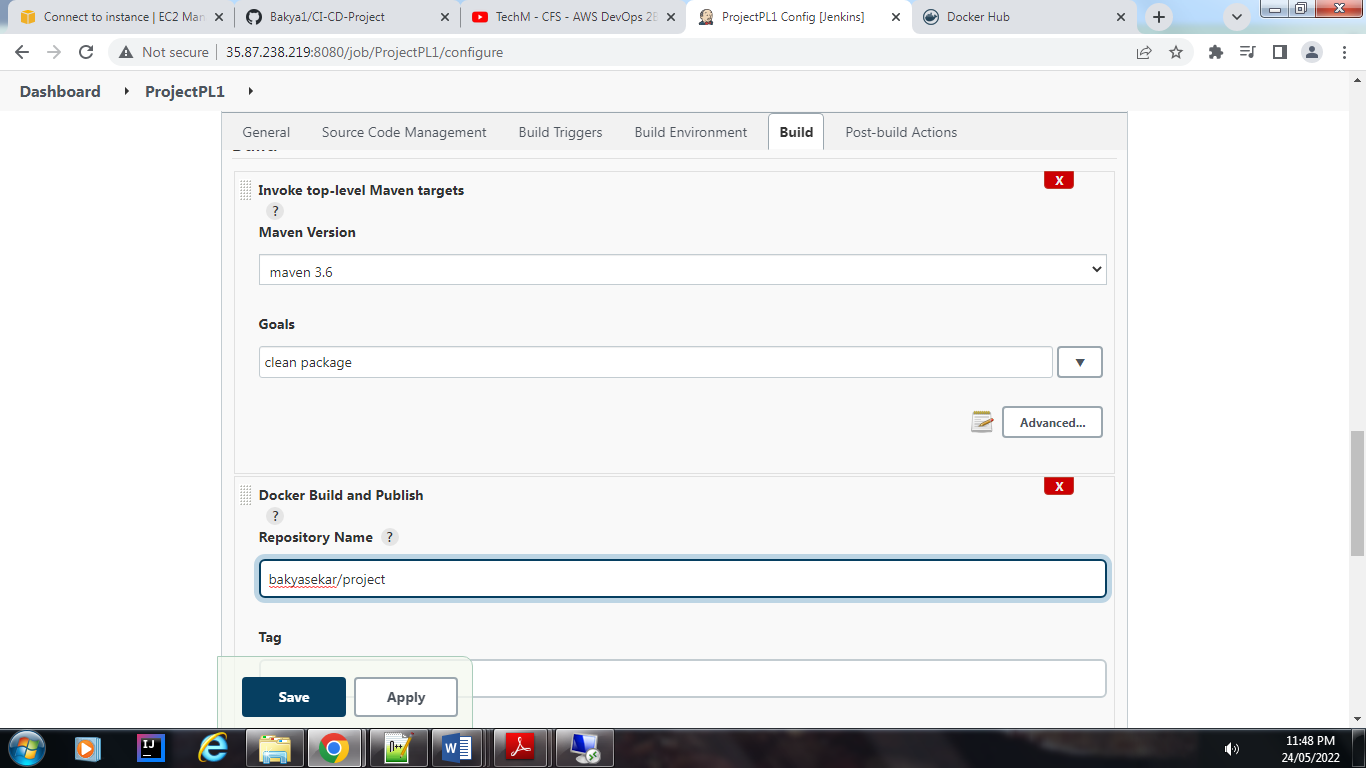
Click on save and click on build now.



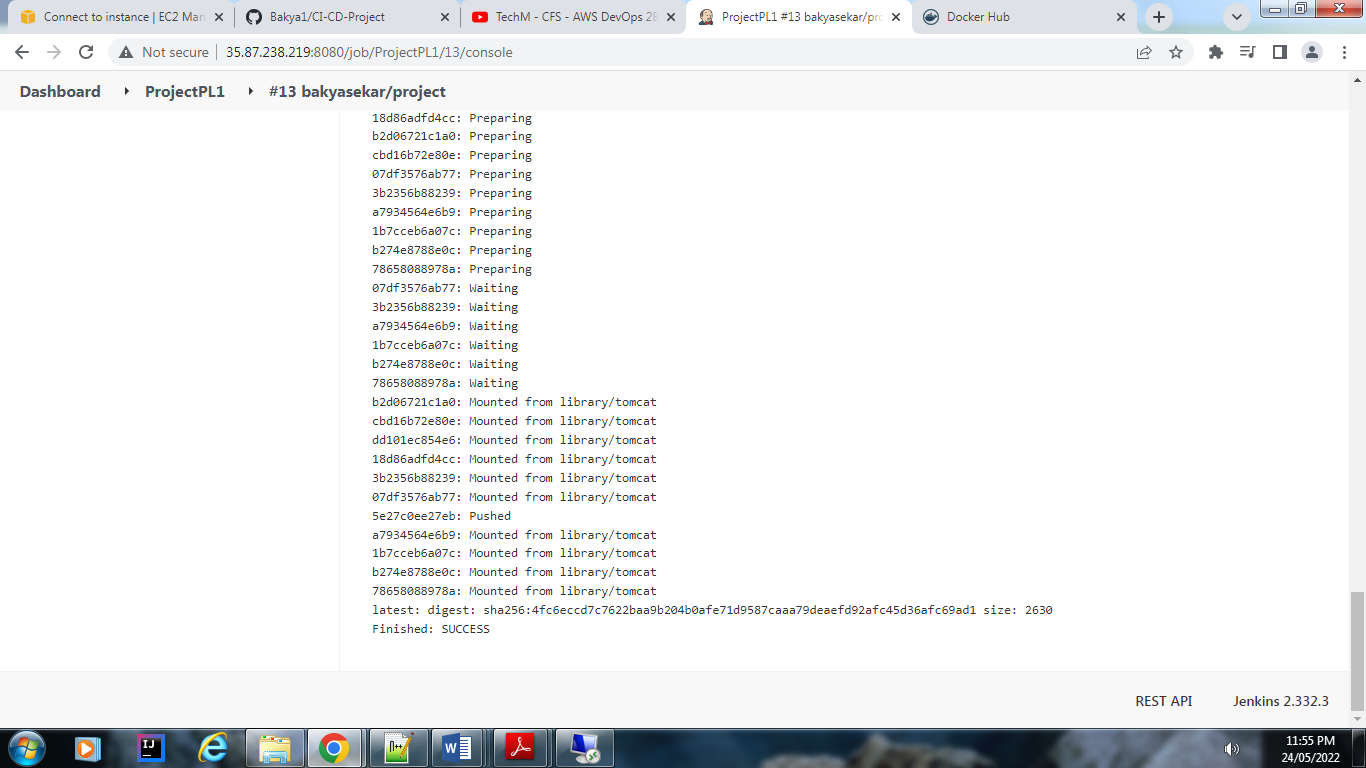
Now login to hub.docker.com and create a repo

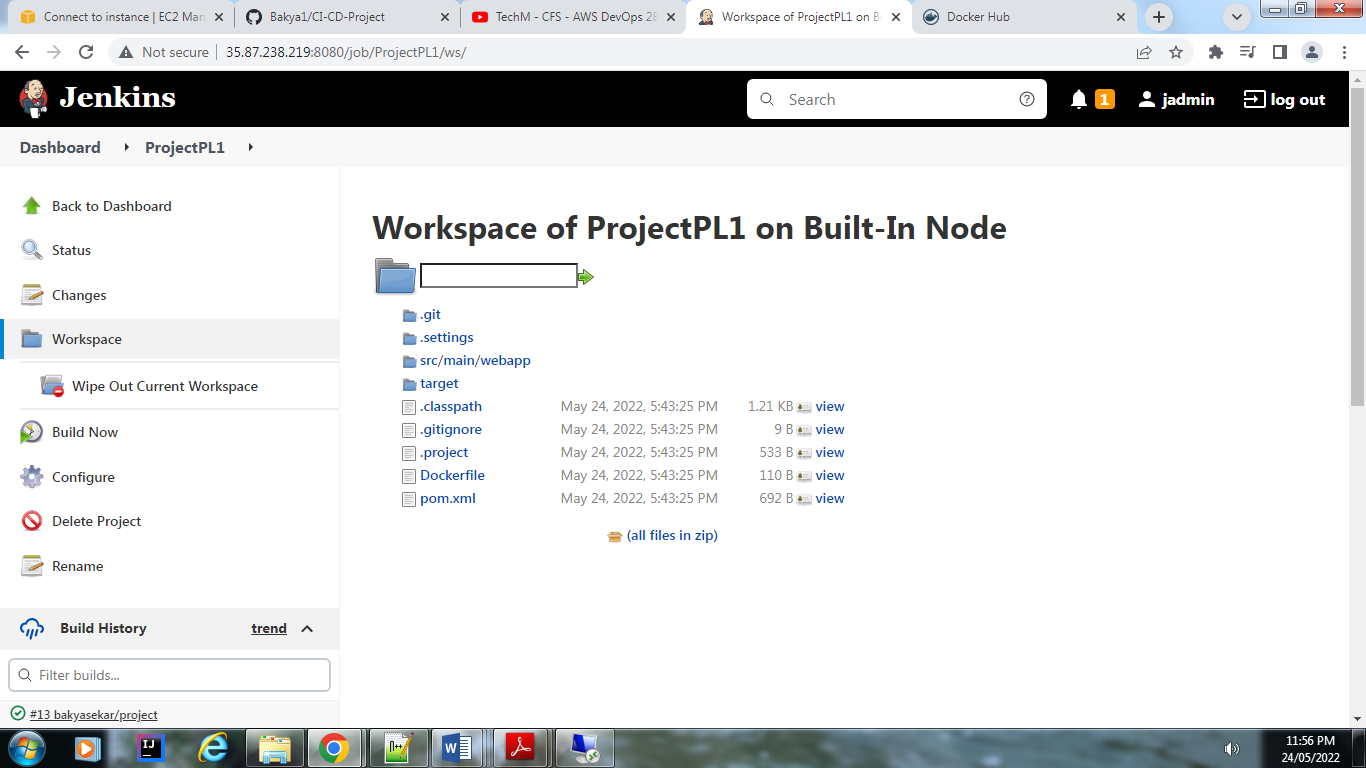


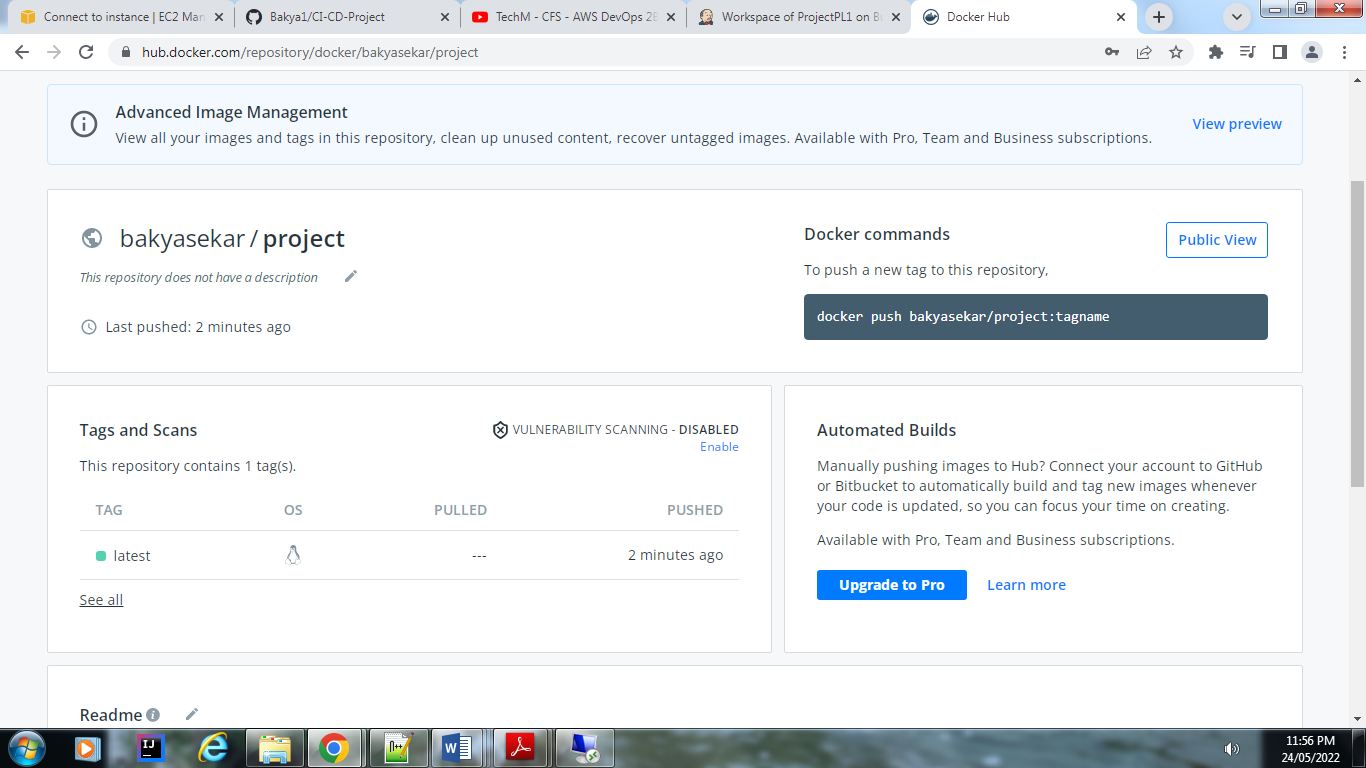
In Jenkins config 🡪 build 🡪add build step 🡪docker build and publish 🡪add repo name and select the credentials 🡪save



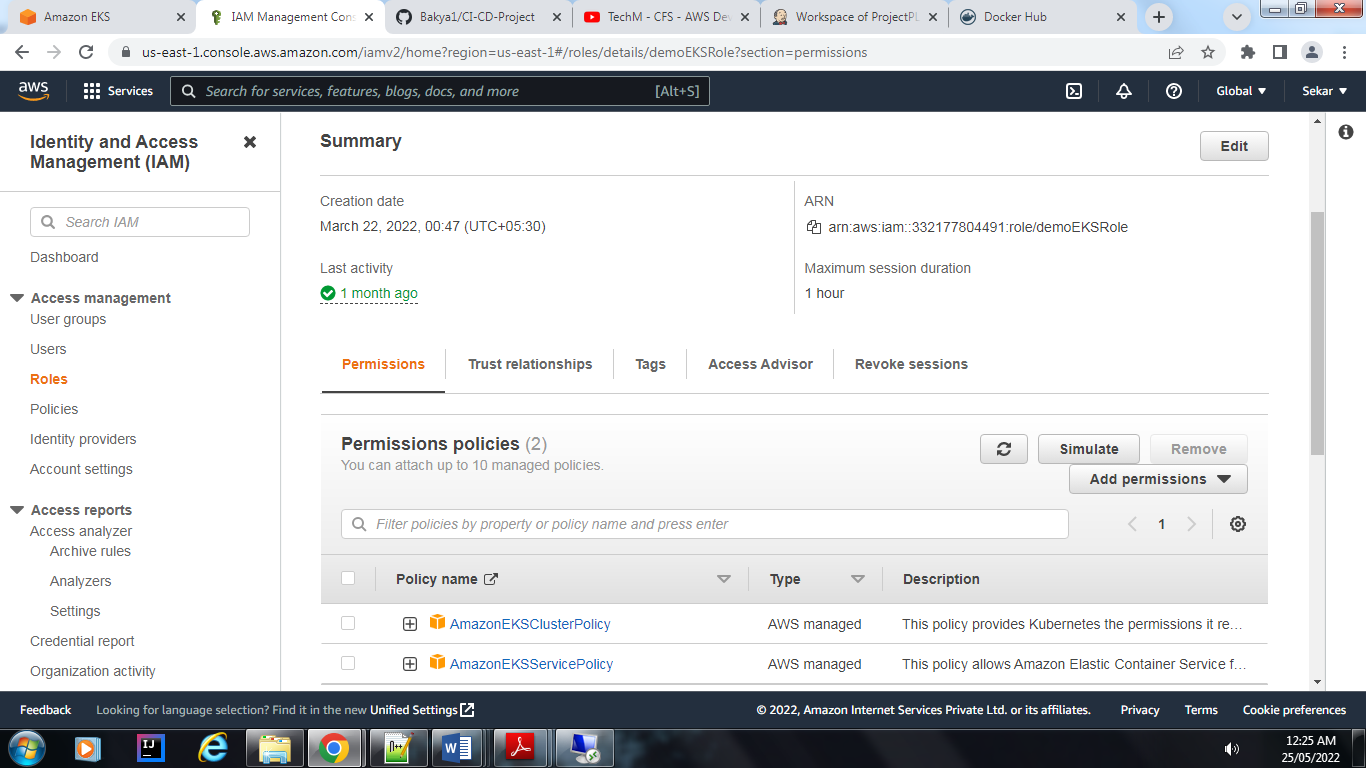
Click on build now

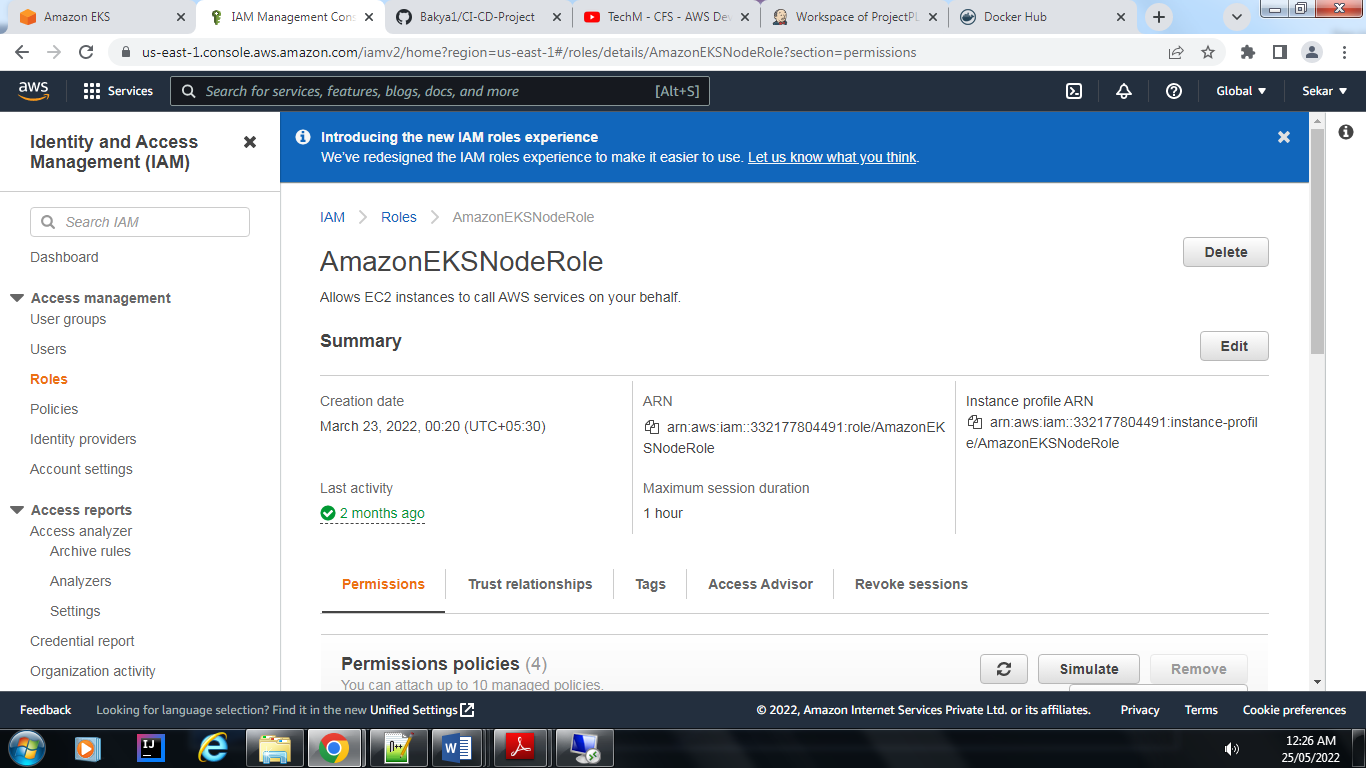


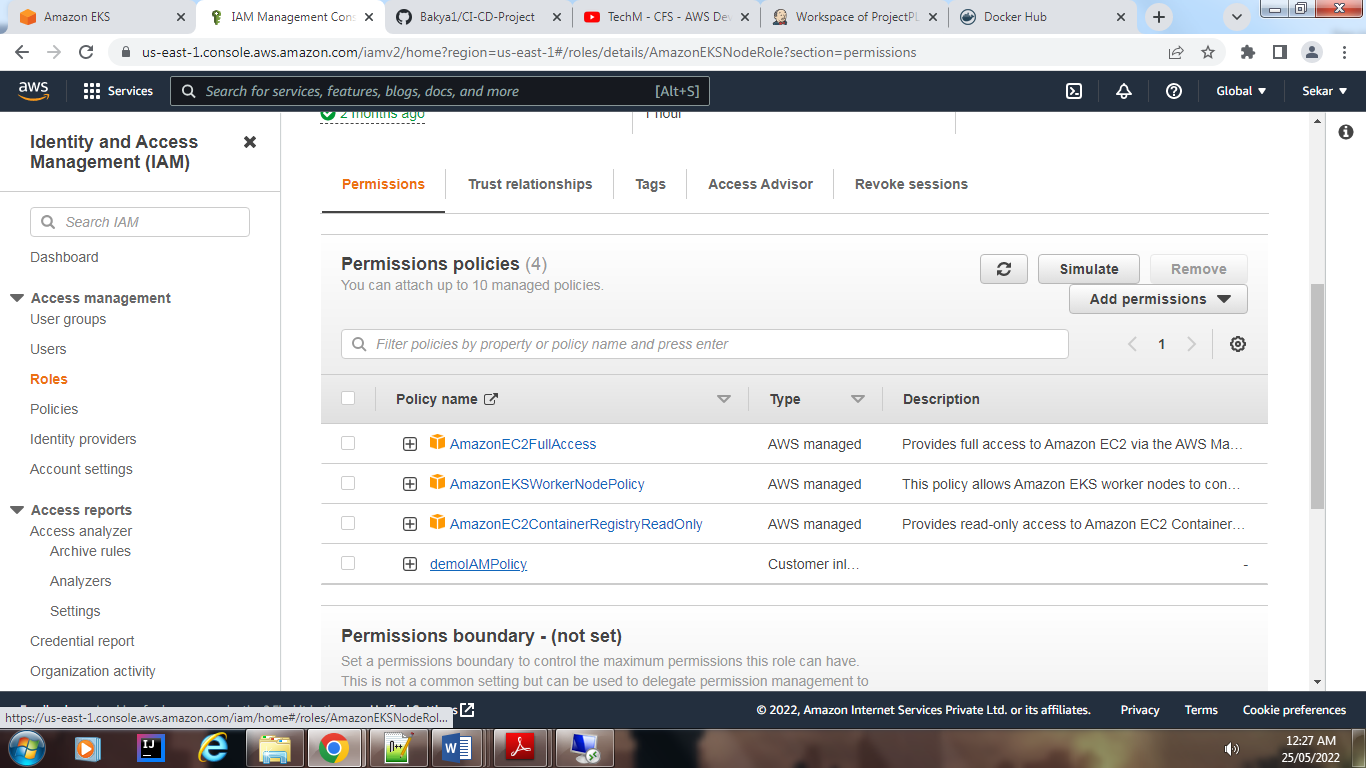


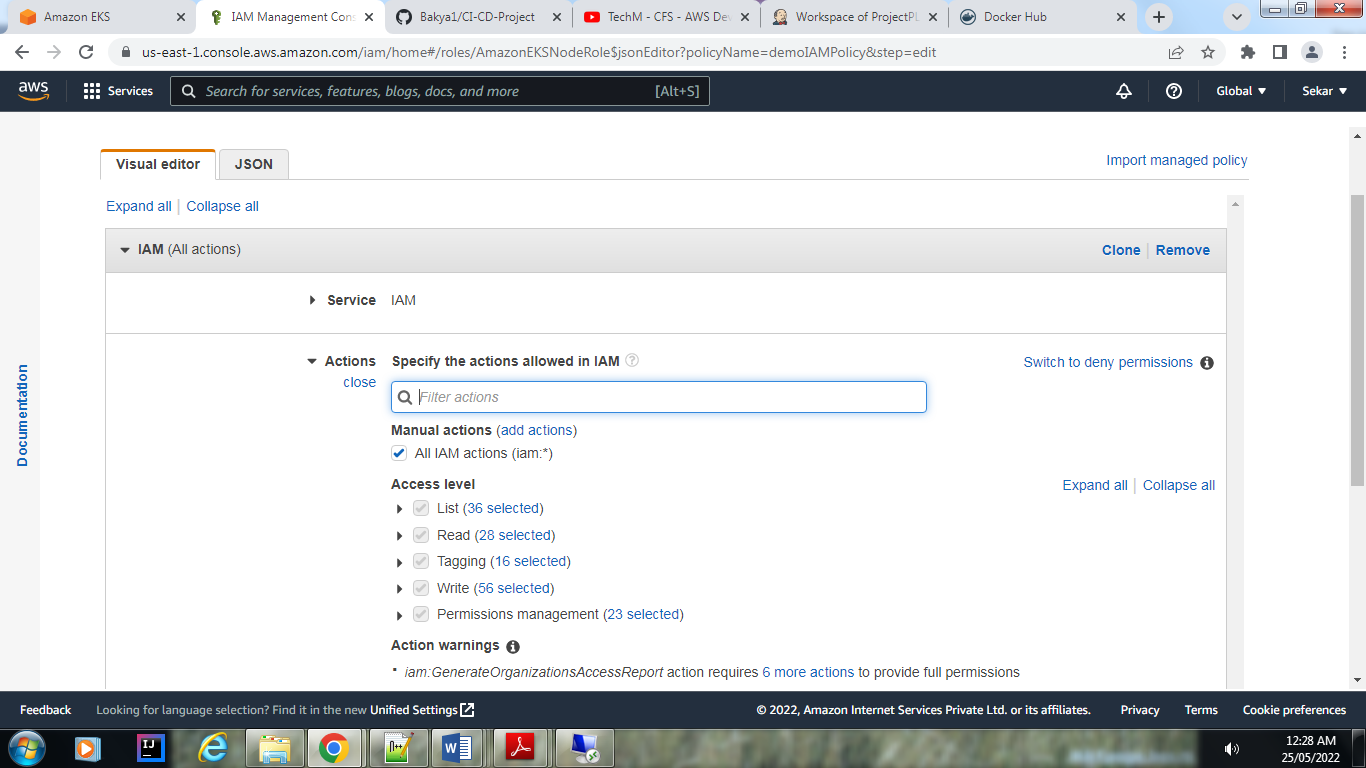


**Create EKS cluster :**

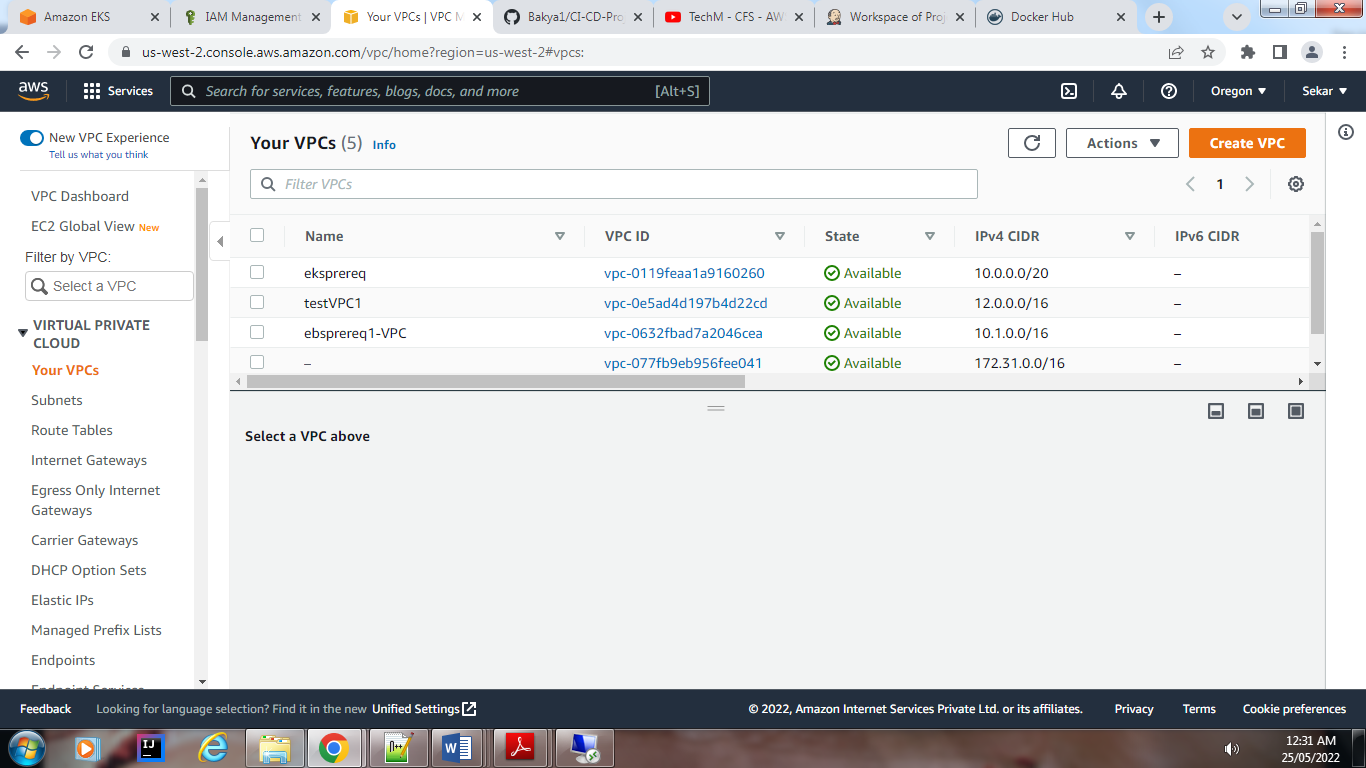




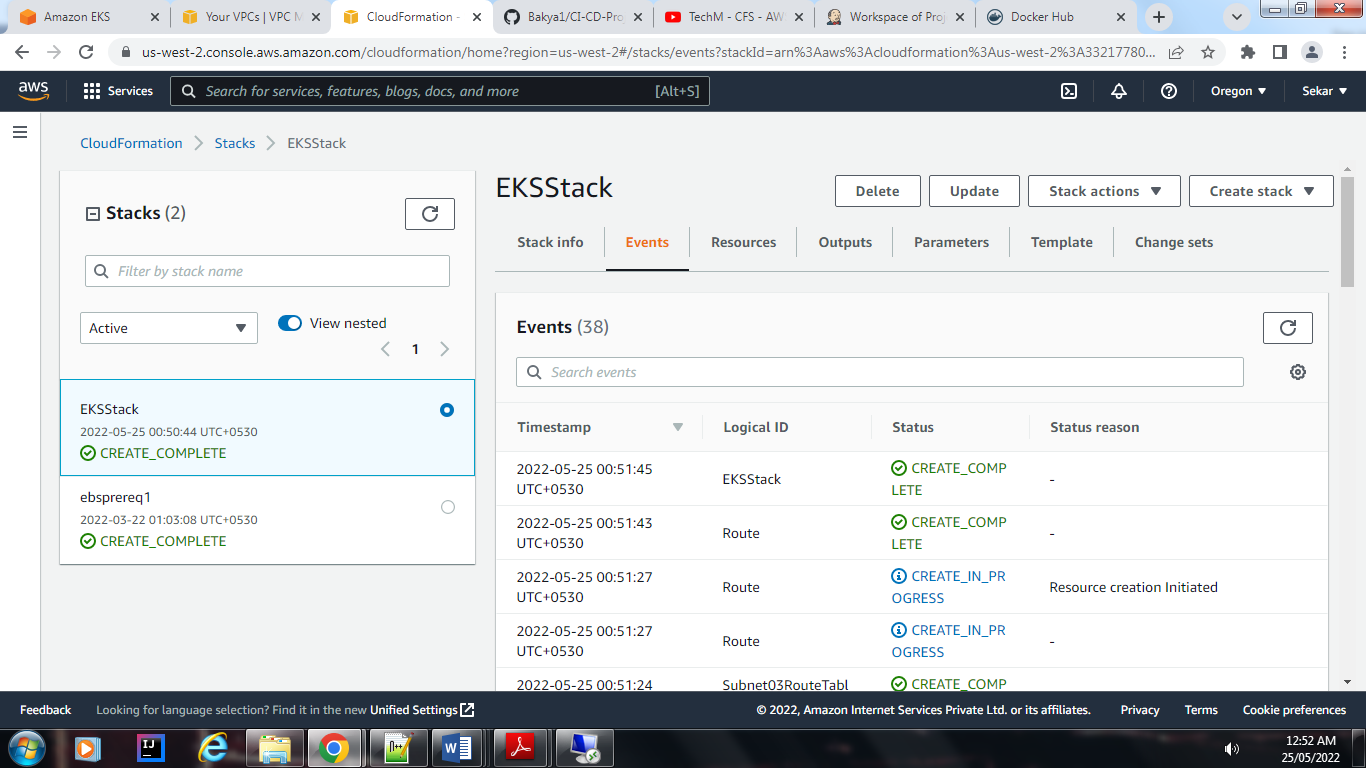




Create VPC:



CF:



EKS cluster:

