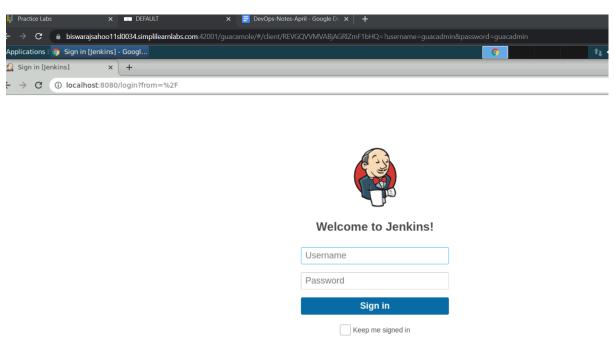
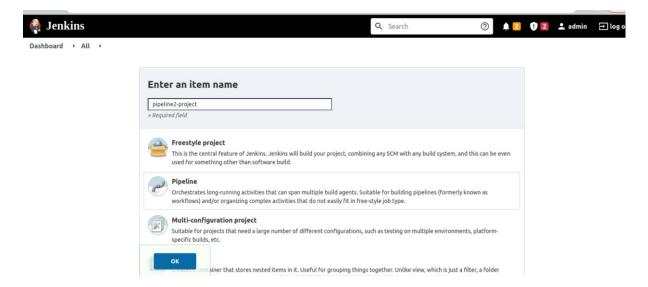
# Build a Docker Jenkins Pipeline to Implement CI/CD Workflow

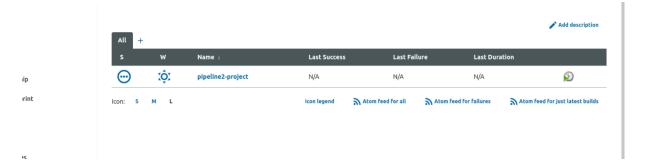
First step we have to go to Jenkins login in browser by giving localhost:8080



Here we have to create a new pipeline named as pipeline2-project



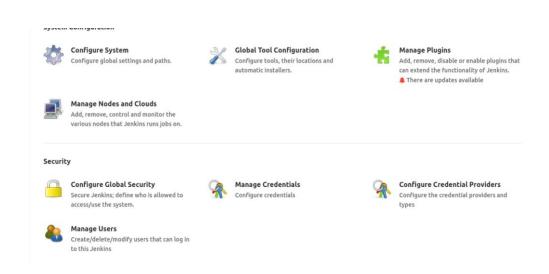
### Pipeline2-project created



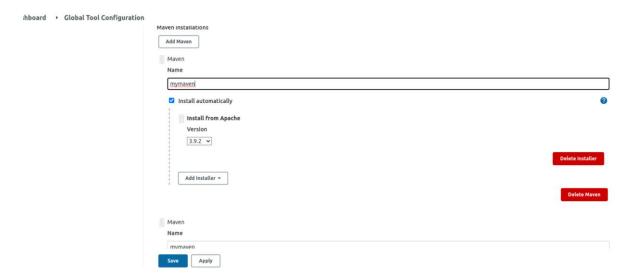
Now we have to set up maven tool fir the project pipeline

> Set up Maven tool in Manage jenkins --> configure global tools--> scroll down --> add maven --> give tool name as mymaven--> save the chnages



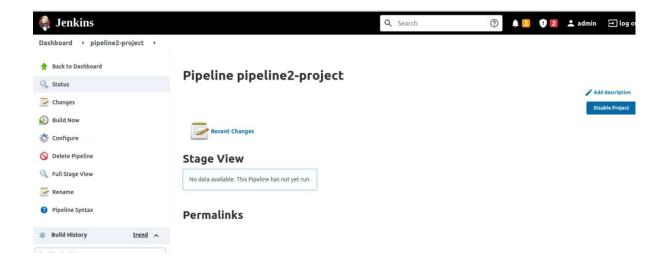


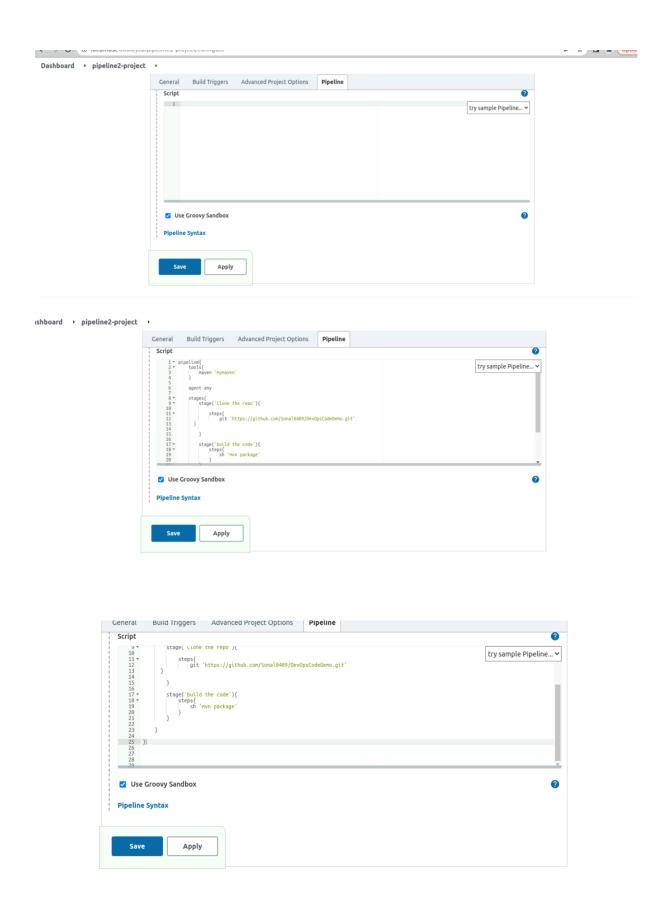




Named the maven tool as "mymeven"

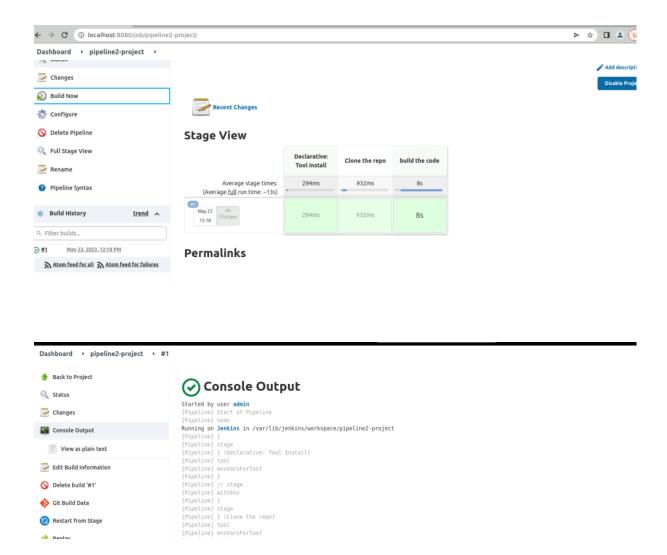
### Now w will go to pipeline to build the pipeline





### Save it

Now we have to build the pipeline



## Go to console output of the job, copy the path of war file generated

```
rests run: 5, raitures: 0, Errors: 0, skipped: 0, rime etapsed: 0.002 sec - in com.mydemo.utilities.restLogger
Running com.mydemo.utilities.TestGenericComparator
Tests run: 14, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.042 sec - in com.mydemo.utilities.TestGenericComparator
Results :
Tests run: 23, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- war:3.3.2:war (default-war) @ addressbook ---
[INFO] Packaging webapp
[INFO] Assembling webapp [addressbook] in [/var/lib/jenkins/workspace/pipeline2-project/target/addressbook]
[INFO] Processing war project
[INFO] Building war: /var/lib/jenkins/workspace/pipeline2-project/target/addressbook.war
[INFO] BUILD SUCCESS
[INFO] ---
[INFO] Total time: 5.527 s
[INFO] Finished at: 2023-05-23T12:19:06Z
[WARNING]
[WARNING] Plugin validation issues were detected in 5 plugin(s)
[WARNING]
```

```
[WARNING] * org.apache.maven.plugins:maven-resources-plugin:3.3.0
[WARNING] * org.apache.maven.plugins:maven-enforcer-plugin:1.0
[WARNING] * org.apache.maven.plugins:maven-war-plugin:3.3.2
[WARNING]
[WARNING] For more or less details, use 'maven.plugin.validation' property with one of the values (case insensitive): [VERBOSE]
[WARNING]
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] /
[Pipeline] // stage
[Pipeline] /
[Pipeline] // withEnv
[Pipeline] /
[Pipeline] // node
[Pipeline] / node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

### Again we have to build the pipeline

```
General Build Triggers Advanced Project Options Pipeline

Script

Script

Script

Stape('build the code'){
Steps{
Stape('build the Inage')}
Steps{
St
```

Jenkins cant address the docker image. For this we have to commit a command.

### Give permissions to jenkins user to run docker command, exeucte below command:

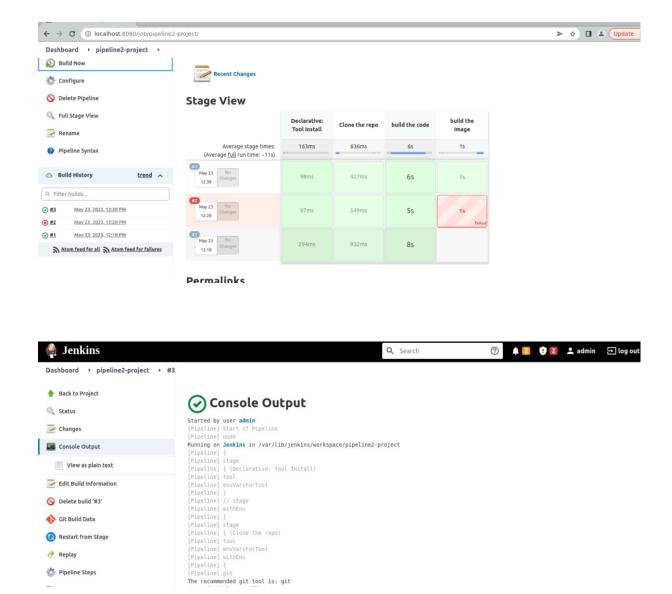
### chmod 777 /var/run/docker.sock

```
root@ip-172-31-26-60: ~

File Edit View Search Terminal Help

hiswarajsahooll@ip-172-31-26-60: ~$ sudo su -
root@ip-172-31-26-60: ~# GIve permissions to jenkins user to run docker command,
execute below command:
GIve: command not found
root@ip-172-31-26-60: ~#
```

Now we have to build the pipeline



### Copy the .war file in current workspace

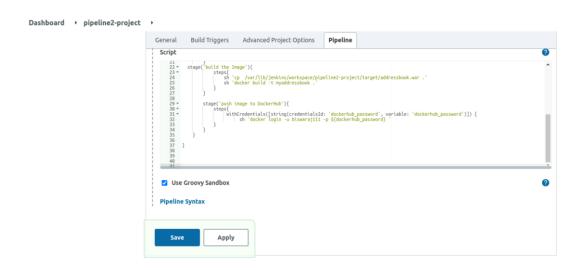
Replay Pipeline Steps

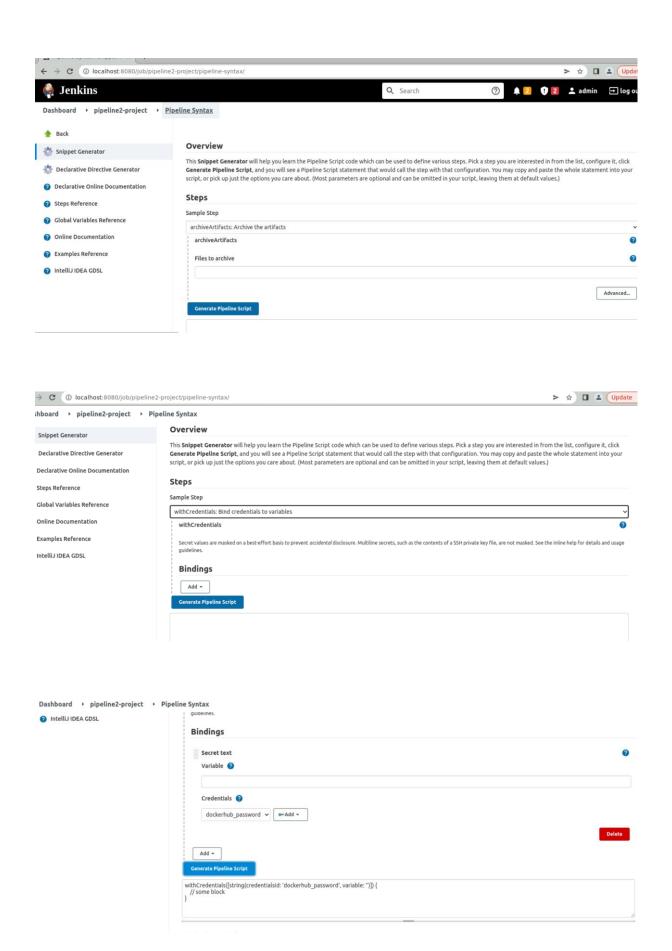
> build the dockerfile which is jobs current workpace

```
File Edit View Search Terminal Help

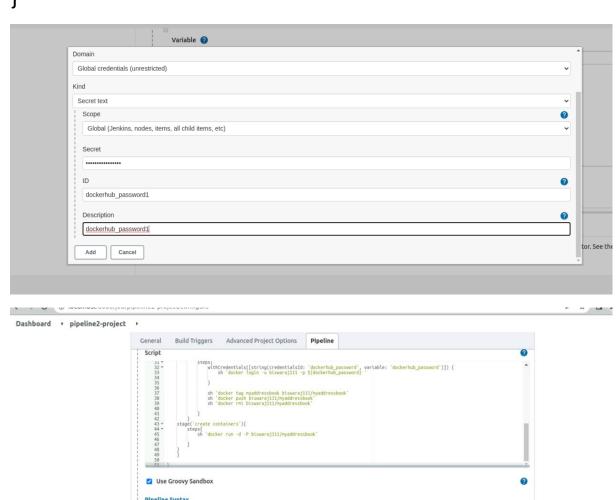
biswarajsahooll@ip-172-31-26-60:~$ sudo su -
root@ip-172-31-26-60:~$ GIve permissions to jenkins user to run docker command,
exeucte below command:
GIve: command not found
root@ip-172-31-26-60:~$
root@ip-172-3
```

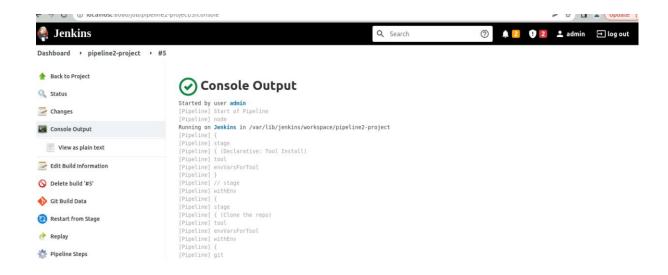
Now again we have to build the pipelinenow we have to push docker image to docker hub account



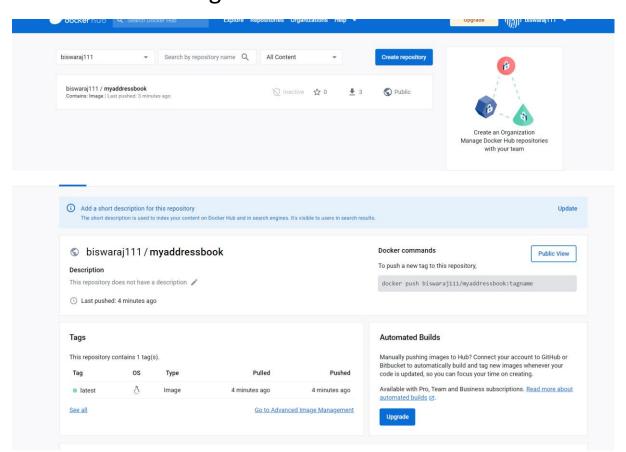


```
Now generate the pipeline script
withCredentials([string(credentialsId:
'dockerhub_password', variable: ")]) {
    // some block
}
```

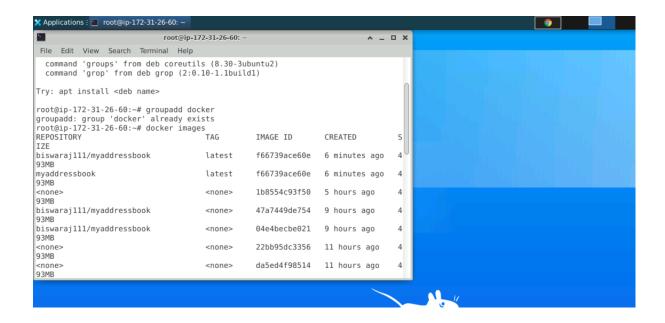




### Now we have to sign in our docker hub account



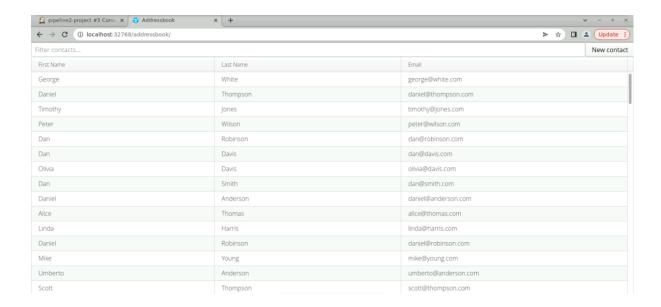
Now we can see the containers and images here



#### Now we can see the address book



If we want to access the application we have to put localhost:32768/addressbook/



Here comes the end of our project.