

Assignment - 4 - Build a war file Deploy into the tomcat container using pipeline script

1. Use this repo link for pipeline project
https://github.com/maheshgradious/java_project
2. Build a warfile using maven
3. Create a docker image of tomcat container and copy the .war build into it
4. Run the image as a container in docker

A:

```
you have new image in /var/lib/docker/mirrors/pranay
```

[pranay@localhost ~]\$ sudo docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
tomcatimage	latest	505a94637816	7 days ago	1.02GB

5. Access the tomcat server using the url to display the web page

A:



Hello World!

It is now Sun Oct 29 12:27:24 UTC 2023

You are coming from 192.168.56.1

Script:

pipeline{

agent any

stages{

stage('source'){

steps{

git branch: 'main', url: 'https://github.com/maheshgradious/java_project'

}

}

stage('build'){

steps{

withSonarQubeEnv('sonar'){

withMaven{

sh "mvn clean verify sonar:sonar"

sh "mvn package verify sonar:sonar"

}

}

```
    }  
  }  
}  
stage('copy and image build'){  
  steps{  
    sh "cp /var/lib/jenkins/workspace/pipeline1/target/hello-world-war-1.0.0.war  
/home/pranay/tomcat_image"  
    sh "docker build /home/pranay/tomcat_image -t tomcatimage "  
  }  
}  
stage('containerbuilding'){  
  steps{  
    sh 'docker run -d -p 8081:8080 --name tomcat_container tomcatimage'  
    sh 'docker start tomcat_container'  
  }  
}  
}  
}
```