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2KE20CS032

## Assignment 28

*Understood. To follow the provided instructions and create the files/directory using the same name and case as provided in the task steps, please provide me with the specific names and case instructions for the files/directory you want to create.*

### Jenkins -4

## Assignment 3 :- Build a war file Deploy into the tomcat container using pipeline script

### 1. Use this repo link for pipeline project

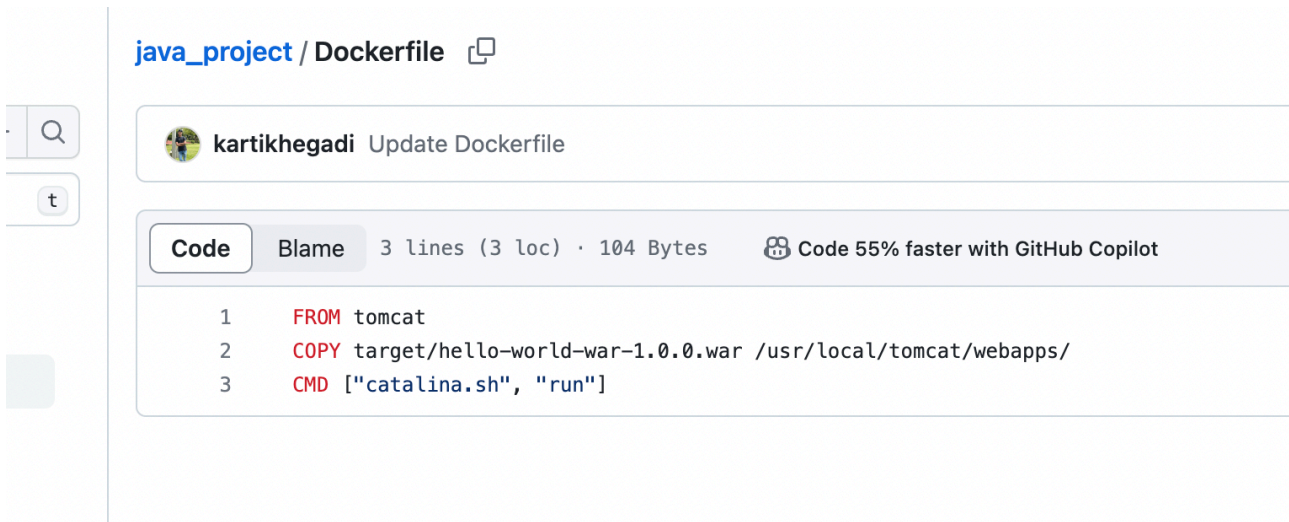
[https://github.com/maheshgradious/java\\_project](https://github.com/maheshgradious/java_project)

### Fork the project

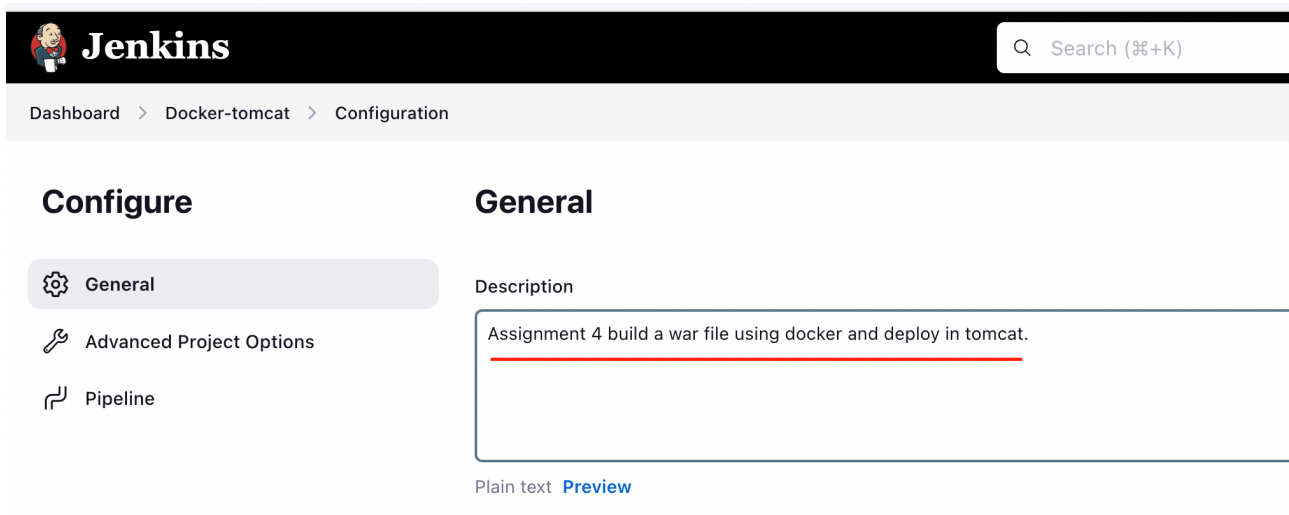
The screenshot shows a GitHub repository page for 'java\_project' by 'kartikhegadi'. The repository is public and was forked from 'maheshgradious/java\_project'. It has 1 branch (main) and 0 tags. The repository is 2 commits ahead of the upstream 'main' branch. The commit history shows a recent commit 'Update Dockerfile' by 'kartikhegadi' 3 days ago. The file list includes 'dist', 'src/main/webapp', 'Dockerfile', 'README.md', and 'pom.xml'. The 'Dockerfile' file is highlighted.

File	Commit Message	Commit Date
dist	Add files via upload	10 months ago
src/main/webapp	Add files via upload	10 months ago
<u>Dockerfile</u>	Update Dockerfile	3 days ago
README.md	Add files via upload	10 months ago
pom.xml	Add files via upload	10 months ago

### Create Docker file



Use project for pipeline (choose pipeline 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(next page)





**Full script ::**

```
pipeline {  
    agent any  
    stages {  
        stage ('source') {  
            steps {  
                git branch:'main', url:'https://github.com/kartikhegadi/  
java_project.git'  
            }  
        }  
        stage('Build') {  
            steps {  
                sh 'mvn clean verify'  
            }  
        }  
        stage ('Docker_build') {  
            steps {  
                sh 'docker build . -t tomcat_imagee'  
            }  
        }  
    }  
}
```

```

stage ('Running_container') {
    steps {
        sh 'docker run -d -p 9090:8080 --name tomcat_containere
tomcat_imagee'
    }
}
}
}
}

```

## Build it

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

### Pipeline Docker-tomcat

assignment 4

### Stage View

	source	Build	Docker_build	Running_container
Average stage times: (Average full run time: ~13s)	6s	1s	2s	157ms
#4 Oct 28 19:10 2 commits	6s	1s	4s	287ms

Build History

trend

## Verify

Dashboard > Docker-tomcat > #4

Status

Changes

Console Output

Edit Build Information

Delete build '#4'

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Build #4 (Oct 28, 2023, 7:10:17 PM)

Add description

Changes

1. Update Dockerfile ([details](#) / [githubweb](#))  
2. Update Dockerfile ([details](#) / [githubweb](#))

Started by user [lusy](#)

Revision: 7cd51da532e01f55ff1e96c6c47be7a59c10a8f8  
Repository: [https://github.com/kartikhegadi/java\\_project.git](https://github.com/kartikhegadi/java_project.git)  
• refs/remotes/origin/main

```

#5 DONE 0.0s

#6 [2/2] COPY target/hello-world-war-1.0.0.war /usr/local/tomcat/webapps/
#6 DONE 0.0s

#7 exporting to image
#7 exporting layers done
#7 writing image sha256:93cc46f487c650a72e1848abac412a61784ccc0350679d33a661ee67896de862 done
#7 naming to docker.io/library/tomcat_imagee done
#7 DONE 0.0s
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Running_container)
[Pipeline] sh
+ docker run -d -p 9090:8080 --name tomcat_containere tomcat_imagee
4f5da7b4146ab7776ab0774a4693998a69423486b618e67491d21dfa136b40cb
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

## Verify container

```

lusy@localhost.localdomain ~ git:(a57470d) ±14 (0.059s)
sudo docker ps

```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
4f5da7b4146a	tomcat_imagee	"catalina.sh run"	7 minutes ago	Up 7 minutes	0.0.0.0:9090->8080/tcp, :::9090->8080/tcp	tomcat_containere

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


```

lusy@localhost.localdomain ~/java_project/target git:(main) ±1 (0.06s)
curl 10.211.55.20:9090/hello-world-war-1.0.0/
<html>
<head>
<title>Hello World!</title>
</head>
<body>
  <h1>Hello World!</h1>
  <p>
    It is now
    Sat Oct 28 14:17:05 UTC 2023</p>
  <p>
    You are coming from
    10.211.55.20</p>
</body>

```



10.211.55.20:9090/hello-world-war-1.0.0/

 Getting Started

# Hello World!

It is now Sat Oct 28 14:17:23 UTC 2023

You are coming from 10.211.55.2