

```
docker run -d --name jenkins -p 8080:8080 -p 50000:50000 -v jenkins:/var/jenkins_home -v /var/run/docker.sock:/var/run/docker.sock --user root jenkins/jenkins:lts
```

```
docker exec -it <contain id> bash
apt update && apt install docker.io
docker restart <cont id>
```

DOCKERFILE

```
FROM maven:3.8.2-openjdk-8 AS builder
WORKDIR /build
COPY . .
RUN mvn clean package
RUN ls target/
```

```
FROM tomcat:jre8-temurin-focal
COPY --from=builder /build/target/hello-world-war*.war /usr/local/tomcat/webapp
```

JENKINSFILE

```
pipeline {
    agent any

    environment {
        DOCKER_HUB_REPO = "surendra1302/tomcat"
        IMAGE_TAG = "version2.1"
    }

    stages {
        stage('Checkout Code') {
            steps {
                git branch: 'master', url: 'https://github.com/surendra1302/hello-world-war.git'
            }
        }

        stage('Build Docker Image') {
            steps {
                sh """
                docker build -t ${DOCKER_HUB_REPO}:${IMAGE_TAG} .
                """
            }
        }

        stage('Push Image to Docker Hub') {
            steps {
                withCredentials([usernamePassword(credentialsId: 'DOCKER_HUB_CREDENTIALS',
usernameVariable: 'DOCKER_HUB_USERNAME', passwordVariable:
'DOCKER_HUB_PASSWORD')]) {
```

```
        sh """
        echo "${DOCKER_HUB_PASSWORD}" | docker login -u "$
{DOCKER_HUB_USERNAME}" --password-stdin
        docker push ${DOCKER_HUB_REPO}:${IMAGE_TAG}
        """
    }
}
}
```

```
stage('Deploy to Container') {
    steps {
        script {
```

```
        sh """
        docker run -d -p 8082:8080 ${DOCKER_HUB_REPO}:${IMAGE_TAG}
        """
    }
```

```
    }
}
}
```

```
post {
    success {
        echo "Deployment Successful!"
    }
    failure {
        echo "Deployment Failed!"
    }
}
}
```