**SourceCode**

**DemoController**

package com.example.demodocker;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.RestController;

@RestController

public class DemoController {

@GetMapping("/greet/{name}")

public String greeting(@PathVariable String name) {

return "Hi!! " + name;

}

}

**DemoDockerApplication**

package com.example.demodocker;

import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication

public class DemoDockerApplication {

public static void main(String[] args) {

SpringApplication.run(DemoDockerApplication.class, args);

}

}

**Jenkinsfiles**

def containerName="springbootdocker"

def tag="latest"

def dockerHubUser="anujsharma1990"

def gitURL="https://github.com/anujdevopslearn/SpringBootDocker.git"

node {

stage('Checkout Source Code') {

checkout scm

}

stage('Build'){

sh "mvn clean install"

}

stage("Image Prune"){

sh "docker image prune -f"

}

stage('Image Build'){

sh "docker build -t $containerName:$tag --pull --no-cache ."

echo "Image build complete"

}

stage ('Run Application') {

try {

// Stop existing Container

sh 'docker rm $containerName -f'

// Start database container here

sh "docker run -d --name $containerName $containerName:${env.BUILD\_NUMBER}"

}

catch (error) {

} finally {

// Stop and remove database container here

}

}

}

**Pom**

<?xml version="1.0" encoding="UTF-8"?>

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.example</groupId>

<artifactId>demo-docker</artifactId>

<version>0.0.1-SNAPSHOT</version>

<packaging>jar</packaging>

<name>demo-docker</name>

<description>Demo project for Spring Boot</description>

<parent>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-parent</artifactId>

<version>2.5.6</version>

<relativePath /><!-- lookup parent from repository -->

</parent>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>

<java.version>1.8</java.version>

</properties>

<dependencies>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-web</artifactId>

<version>2.5.6</version>

</dependency>

<dependency>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-starter-test</artifactId>

<version>2.5.6</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

<groupId>org.springframework.boot</groupId>

<artifactId>spring-boot-maven-plugin</artifactId>

<version>2.5.6</version>

</plugin>

</plugins>

</build>

<profiles>

<profile>

<activation>

<property>

<name>docker</name>

</property>

</activation>

<build>

<plugins>

<plugin>

<groupId>io.fabric8</groupId>

<artifactId>docker-maven-plugin</artifactId>

<version>0.26.0</version>

<extensions>true</extensions>

<configuration>

<verbose>true</verbose>

<images>

<image>

<name>${project.artifactId}</name>

<build>

<from>java:8-jdk-alpine</from>

<entryPoint>

<exec>

<args>java</args>

<args>-jar</args>

<args>/maven/${project.artifactId}-${project.version}.jar</args>

</exec>

</entryPoint>

<assembly>

<descriptorRef>artifact</descriptorRef>

</assembly>

</build>

</image>

</images>

</configuration>

<executions>

<execution>

<id>build</id>

<phase>post-integration-test</phase>

<goals>

<goal>build</goal>

</goals>

</execution>

</executions>

</plugin>

</plugins>

</build>

</profile>

</profiles>

</project>