Code

POM.xml:

```xml
<?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 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

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

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

<version>3.0.6</version>

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

</parent>

<groupId>com.example</groupId>

<artifactId>Spring-CD-CI</artifactId>

<version>0.0.1-SNAPSHOT</version>

<name>Spring-CD-CI</name>

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

<properties>

<java.version>17</java.version>

</properties>

<dependencies>

<dependency>

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

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

</dependency>

<dependency>

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

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

```xml
</dependency>

<dependency>

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

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

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<plugin>

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

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

</plugin>

</plugins>

</build>

</project>
```

SpringCdCiApplication.java:

```java
package com.example.demo;


import org.springframework.boot.SpringApplication;

import org.springframework.boot.autoconfigure.SpringBootApplication;


@SpringBootApplication

public class SpringCdCiApplication {


    public static void main(String[] args) {

        SpringApplication.run(SpringCdCiApplication.class, args);

    }
```

```java
}
```

HelloController.java:

```java
package com.example.demo;

import java.net.InetAddress;

import java.net.UnknownHostException;

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

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

@RestController("/")

public class HelloController {

    @RequestMapping("/")

    public String root() {

        return "<h2>Endpoints avilable:</h2><ol><li>Hello: <a
href='/hello'>/hello</a></li><li>Greet to Ip: <a href='/greeting'>/greeting</a></li></ol>";

    }


    @RequestMapping("/hello")

    public String hello() {

        return "Hello from spring boot";

    }


    @RequestMapping("/greeting")

    public String greet() {

        String ip = "";

        try {

            ip = InetAddress.getLocalHost().toString();

        } catch (UnknownHostException e) {

            // TODO Auto-generated catch block

            e.printStackTrace();
```

```
                }

                return "<h3>Hello IP: "+ip+"</h3>";

        }

}
```

Command required to download libraries in EC2 Instance:

```
#!/bin/bash

sudo yum update -y

# Install Java

sudo amazon-linux-extras install -y epel

sudo amazon-linux-extras install -y java-openjdk17

sudo yum install -y epel-release

sudo yum install -y java-17-openjdk-devel

sudo /usr/sbin/alternatives --config java <<< '1'

# Install Maven

sudo wget http://repos.fedorapeople.org/repos/dchen/apache-maven/epel-apache-maven.repo -O /etc/yum.repos.d/epel-apache-maven.repo

sudo sed -i s/\$releasever/6/g /etc/yum.repos.d/epel-apache-maven.repo

sudo yum install -y apache-maven

# Install git

sudo yum install git -y

sudo java -version

sudo mvn –-version

sudo git version

sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins-ci.org/redhat-stable/jenkins.repo

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

sudo yum install -y jenkins

sudo systemctl start jenkins

sudo systemctl enable jenkins
```