

# CI/CD Deployment for SpringBootApplication.

(Source Code)

## Version History:

Author	Aman Kumar
Purpose	Project Source Code
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Version	1.0

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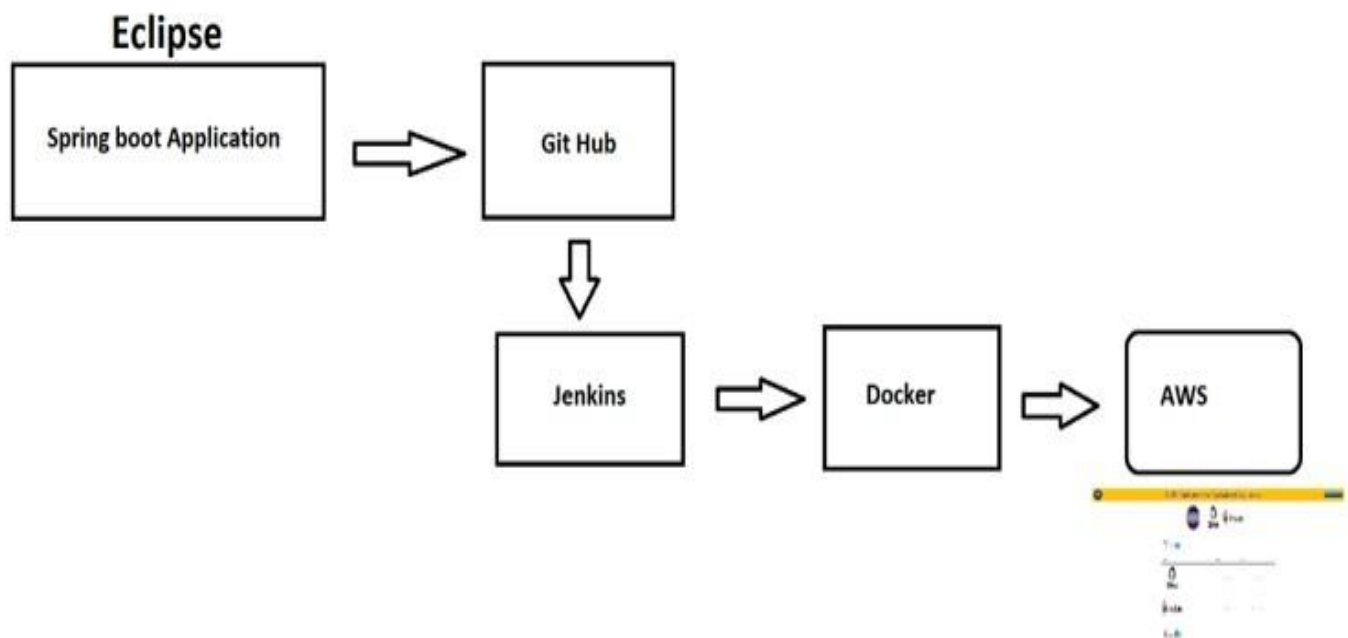
## 1. GitHub Link

<https://github.com/amanlogin/Phase-5-CI-CD-Deployment>

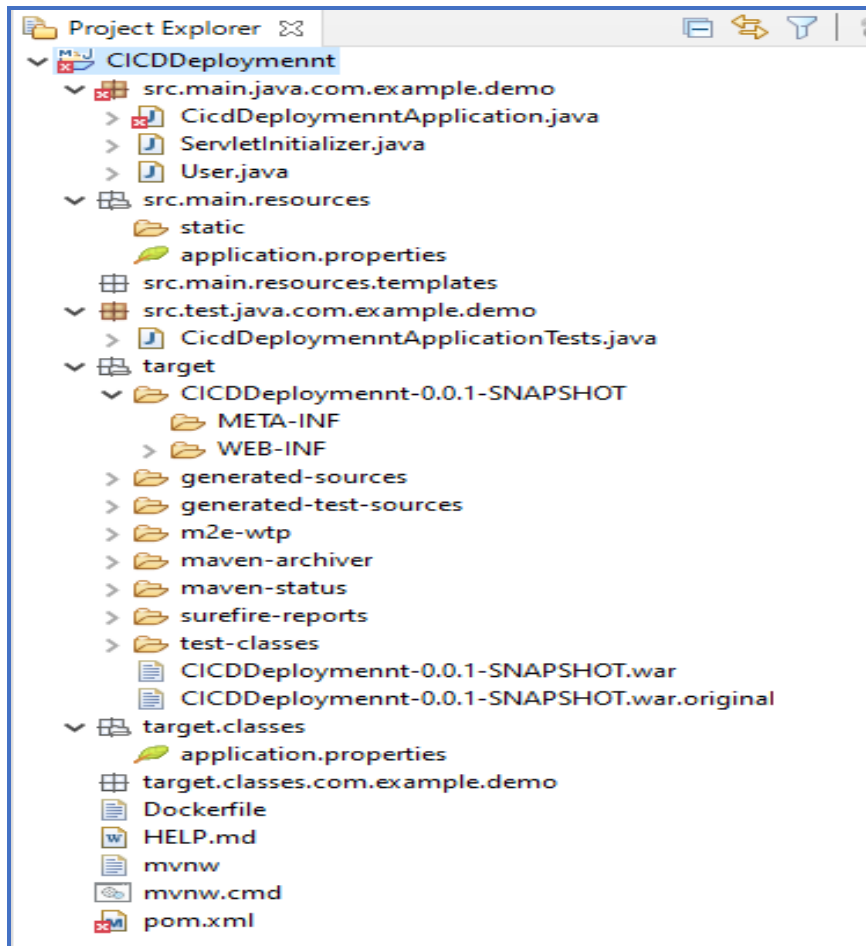
- **Host server app to view the deployed application:**

<http://3.91.182.20:7000/>

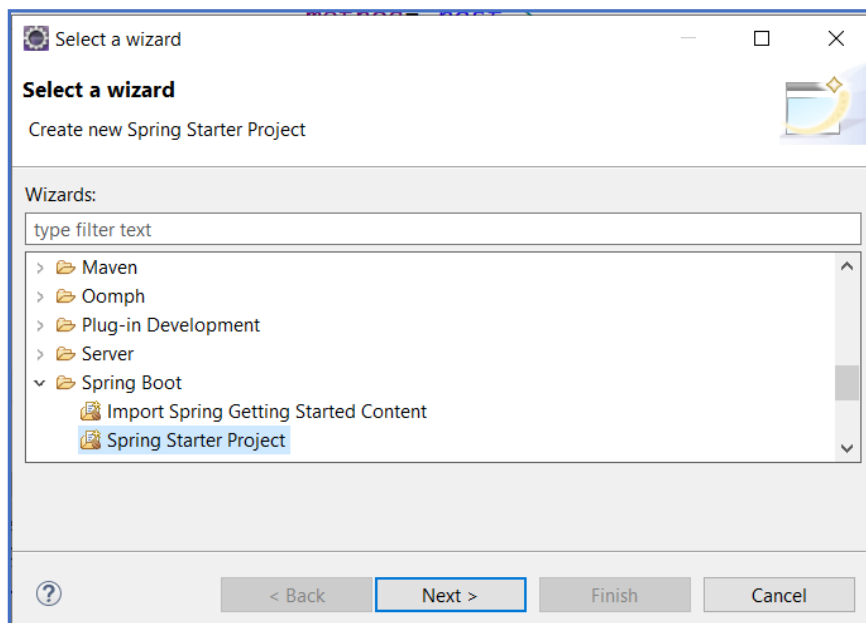
## 2. Flow Chart



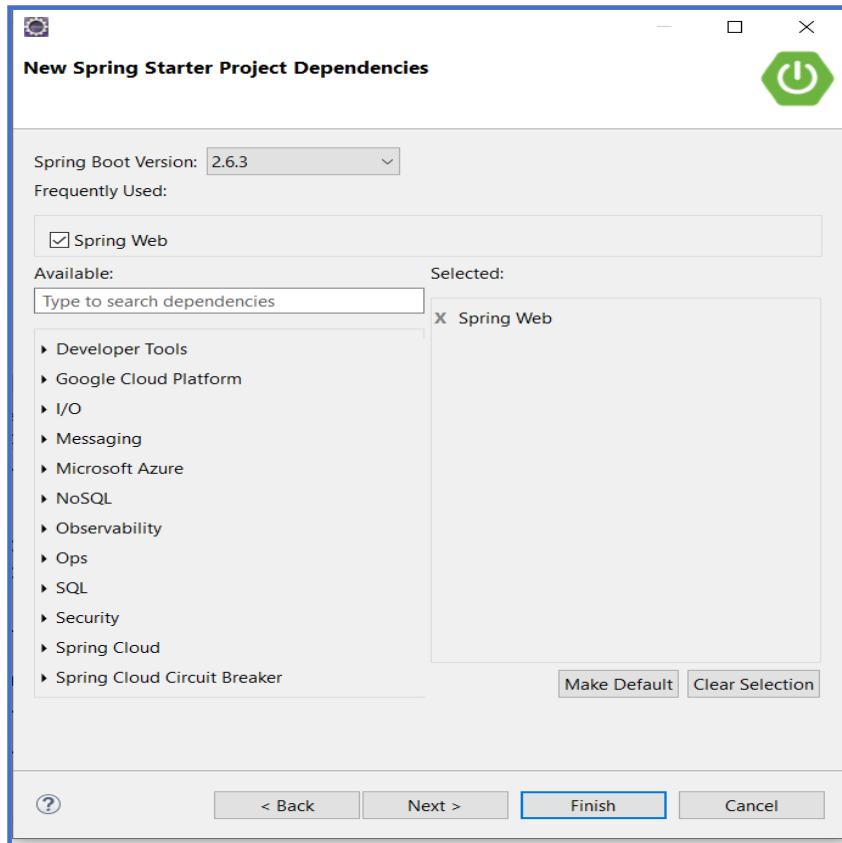
### 3. Folder Structure.



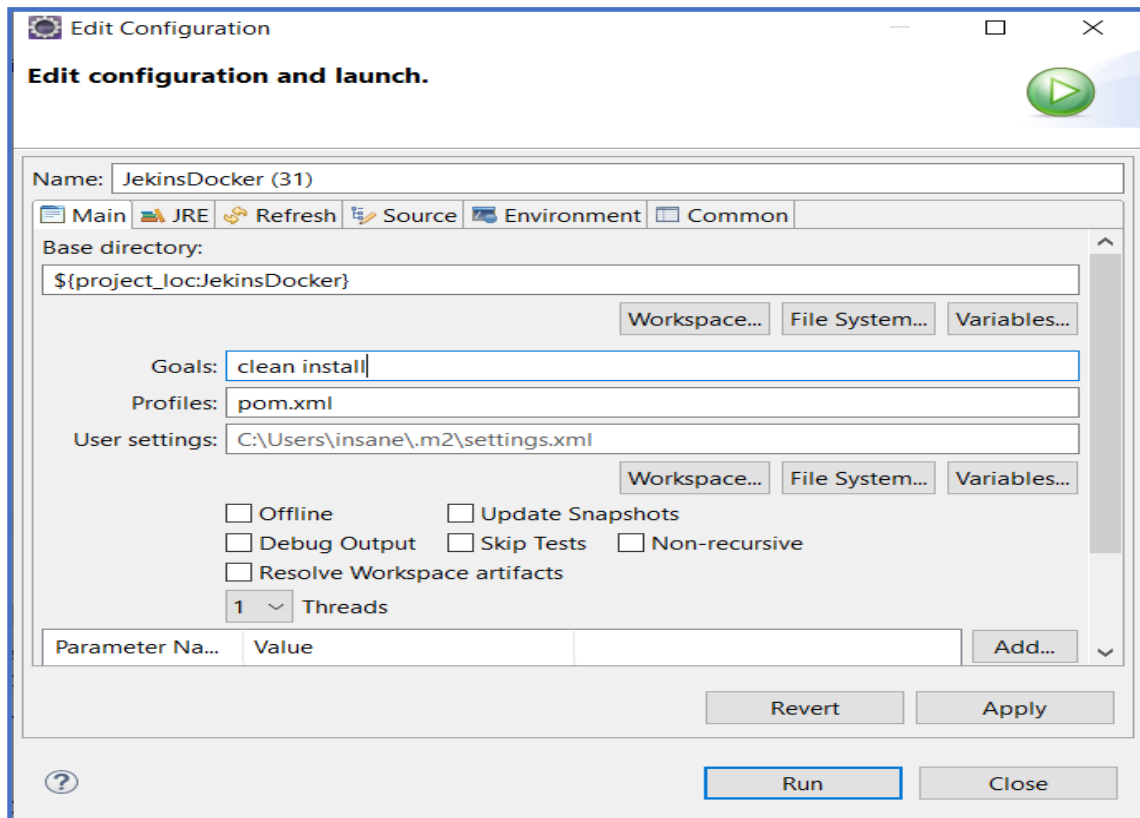
- In Eclipse create a new project by choosing File > New > Spring Starter Project.



- The Configure your new project as a Spring Web and finish



- After programming the Spring Boot Application using maven to build the WAR file.



## 4. Project Files.

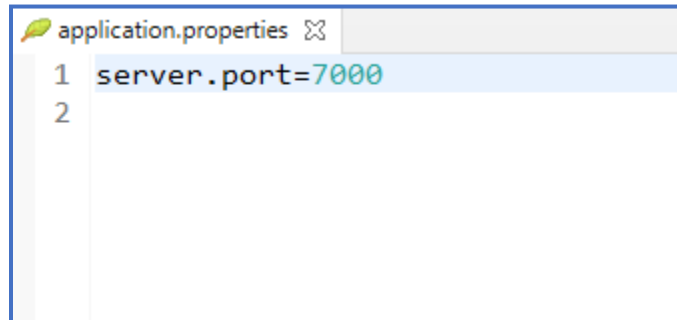
### a. Docker File.

```
Dockerfile User.java application.properties CICDDeploymennt-0.0.1-SNAPSHOT.war
1 FROM openjdk:8
2 EXPOSE 8087
3 ADD target/CICDDeploymennt-0.0.1-SNAPSHOT.war CICDDeploymennt-0.0.1-SNAPSHOT.war
4 ENTRYPOINT ["java", "-jar", "/CICDDeploymennt-0.0.1-SNAPSHOT.war"]
```

### b. Users.java

```
User.java Dockerfile application.properties CICDDeploymennt-0.0.1-SNAPSHOT.war
1 package com.example.demo;
2
3 import org.springframework.stereotype.Controller;
4
5
6
7 @Controller
8 public class User {
9
10     @ResponseBody
11     @RequestMapping("/")
12     public String init ()
13     {
14
15         return "CI-CD Deployment using Jenkins+Docker into AWS EC2.";
16
17     }
18
19 }
```

## c. Application Properties



## d. Pom.xml

```
CICDDeployemnt/pom.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <parent>
6     <groupId>org.springframework.boot</groupId>
7     <artifactId>spring-boot-starter-parent</artifactId>
8     <version>2.6.3</version>
9     <relativePath/> <!-- lookup parent from repository -->
10  </parent>
11  <groupId>com.example</groupId>
12  <artifactId>CICDDeployemnt</artifactId>
13  <version>0.0.1-SNAPSHOT</version>
14  <packaging>war</packaging>
15  <name>CICDDeployemnt</name>
16  <description>Demo project for Spring Boot</description>
17  <properties>
18    <java.version>1.8</java.version>
19  </properties>
20  <dependencies>
21    <dependency>
22      <groupId>org.springframework.boot</groupId>
23      <artifactId>spring-boot-starter-web</artifactId>
24    </dependency>
25    <dependency>
26      <groupId>org.springframework.boot</groupId>
27      <artifactId>spring-boot-starter-tomcat</artifactId>
28      <scope>provided</scope>
29    </dependency>
30    <dependency>
31      <groupId>org.springframework.boot</groupId>
32      <artifactId>spring-boot-starter-test</artifactId>
33      <scope>test</scope>
34    </dependency>
35  </dependencies>
36
37  <build>
38    <plugins>
39      <plugin>
40        <groupId>org.springframework.boot</groupId>
41        <artifactId>spring-boot-maven-plugin</artifactId>
42      </plugin>
43    </plugins>
44  </build>
45
46 </project>
```