# **Configure for Lab**

Bok, Jong Soon javaexpert@nate.com <a href="https://github.com/swacademy/Spring5">https://github.com/swacademy/Spring5</a>

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- STS3 Add-On Installation

# I. JDK 1.8.0\_221

#### **JDK 1.8.x Installation and Configuration**

- JDK : <a href="https://www.oracle.com/technetwork/java/javase/downloads/index.">https://www.oracle.com/technetwork/java/javase/downloads/index.</a>
  html
- Documentation : <a href="https://docs.oracle.com/javase/8/docs/">https://docs.oracle.com/javase/8/docs/</a>
- API : <a href="https://docs.oracle.com/javase/8/docs/api/">https://docs.oracle.com/javase/8/docs/api/</a>

### JDK 1.8.x Installation and Configuration (Cont.)

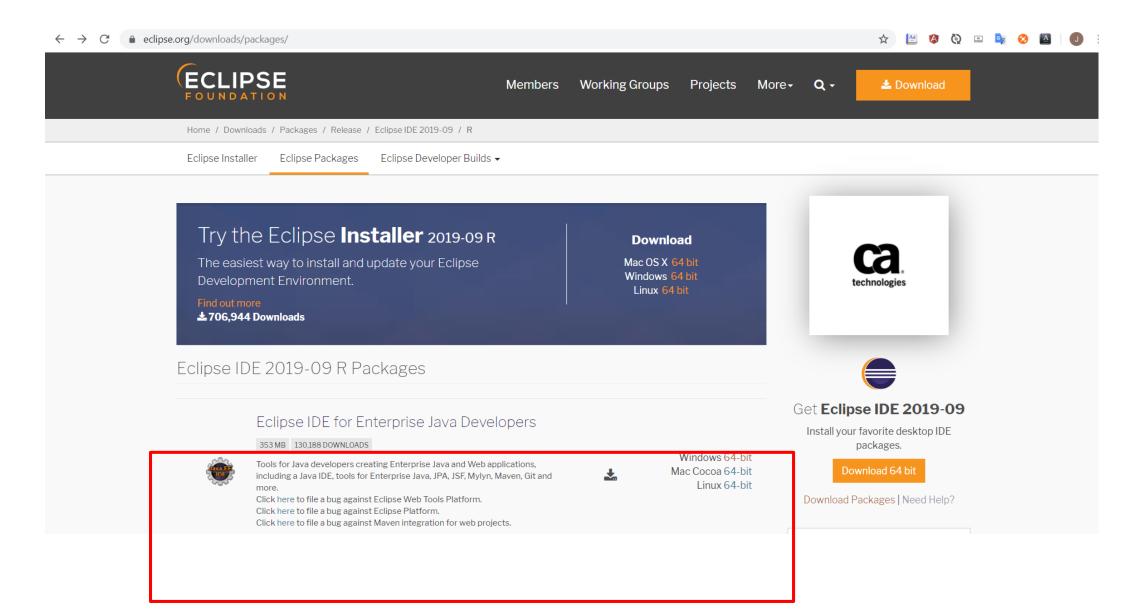
- JAVA\_HOME
- PATH

```
C:\Users\bluee>echo %JAVA_HOME%
C:\Program Files\Java\jdk1.8.0_221

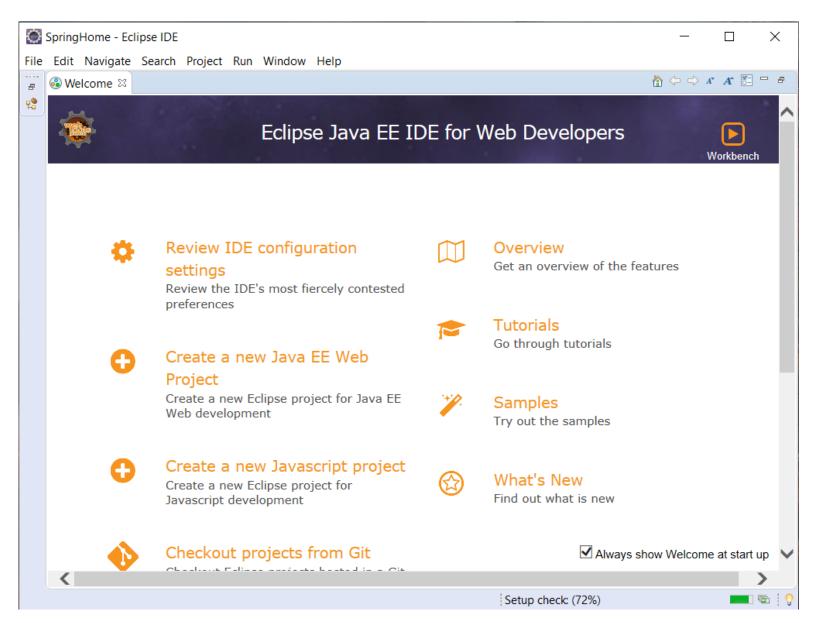
C:\Users\bluee>echo %PATH%
C:\Program Files\Java\jdk1.8.0_221\bin;C:\Windows\system32;C:\Windows;C:\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\System32\Windows\
```

# II. Eclipse JEE

### **Eclipse JEE Download and Configuration**



## **Eclipse JEE Download and Configuration (Cont.)**



# III. Maven 3.6.2

#### Maven 3.6.x Configuration

- http://maven.apache.org/
- Refer to : <a href="http://javacan.tistory.com/entry/MavenBasic">http://javacan.tistory.com/entry/MavenBasic</a>
- Download
  - http://maven.apache.org/download.cgi
  - Binary zip archive : apache-maven-3.6.2-bin.zip

#### Maven 3.6.x Configuration (Cont.)

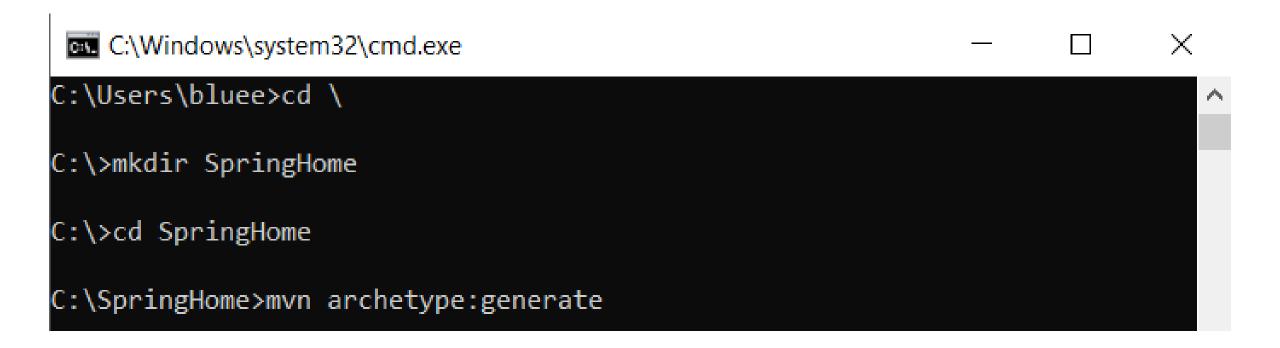
- M2\_HOME(C: \ Program Files \ apache-maven-3.6.2) 설정
- PATH에 (%M2\_HOME% \ bin) 추가

#### Maven 3.6.x Configuration (Cont.)

■ 설치 확인 \$ mvn -version

#### **Maven Project**

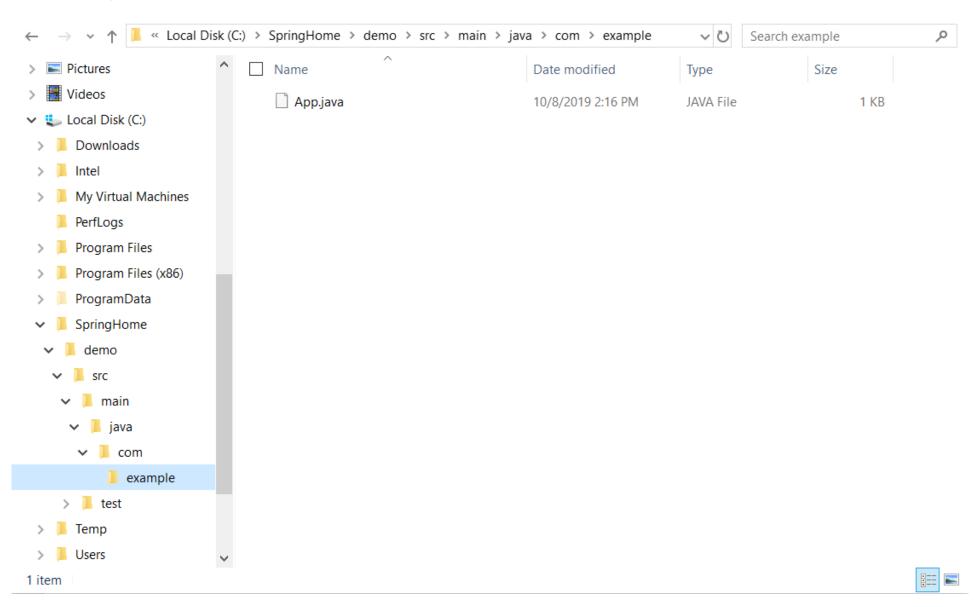
\$ mvn archetype:generate



```
C:\Windows\system32\cmd.exe - mvn_archetype:generate
                                                                                                                     X
2485: remote -> top.lshaci:framework-archetype (top lshaci framework maven archetype)
2486: remote -> top.marchand.archetype:sie-xf-prio-dep-import-generic ([ELS] Mod@le de projet d'import Flash bas0 sur
l'importeur g0n0rique)
2487: remote -> tr.com.lucidcode:kite-archetype (A Maven Archetype that allows users to create a Fresh Kite project)
2488: remote -> tr.com.obss.sdlc.archetype:obss-archetype-java (This archetype provides a common skelton for the Java
packages.)
2489: remote -> tr.com.obss.sdlc.archetype:obss-archetype-webapp (This archetype provides a skelton for the Java Web A
pplication packages.)
2490: remote -> ua.co.gravy.archetype:single-project-with-junit-and-slf4j (Create a single project with jUnit, Mockito
and slf4j dependencies.)
2491: remote -> uk.ac.ebi.gxa:atlas-archetype (Archetype for generating a custom Atlas webapp)
2492: remote -> uk.ac.gate:gate-plugin-archetype (Maven archetype to create a new GATE plugin project.)
2493: remote -> uk.ac.gate:gate-pr-archetype (Maven archetype to create a new GATE plugin project including a sample P
R class (an empty LanguageAnalyser).)
2494: remote -> uk.ac.nactem.argo:argo-analysis-engine-archetype (An archetype which contains a sample Argo (UIMA) Ana
lysis Engine)
2495: remote -> uk.ac.nactem.argo:argo-reader-archetype (An archetype which contains a sample Argo (UIMA) Reader)
2496: remote -> uk.ac.rdg.resc:edal-ncwms-based-webapp (-)
2497: remote -> uk.co.nemstix:basic-javaee7-archetype (A basic Java EE7 Maven archetype)
2498: remote -> uk.co.solong:angular-spring-archetype (So Long archetype for RESTful spring services with an AngularJS
frontend. Includes debian deployment)
2499: remote -> us.fatehi:schemacrawler-archetype-maven-project (-)
2500: remote -> us.fatehi:schemacrawler-archetype-plugin-command (-)
2501: remote -> us.fatehi:schemacrawler-archetype-plugin-dbconnector (-)
2502: remote -> us.fatehi:schemacrawler-archetype-plugin-lint (-)
2503: remote -> ws.osiris:osiris-archetype (Maven Archetype for Osiris)
2504: remote -> xyz.luan.generator:xyz-gae-generator (-)
2505: remote -> xyz.luan.generator:xyz-generator (-)
2506: remote -> za.co.absa.hyperdrive:component-archetype (-)
Choose a number or apply filter (format: [groupId:]artifactId, case sensitive contains): 1430:
```

```
| Choose a number or apply filter (format: [groupId:]artifactId, case sensitive contains): 1430: | 2Choose org.apache.maven.archetypes:maven-archetype-quickstart version: | 31: 1.0-alpha-1 | 42: 1.0-alpha-2 | 53: 1.0-alpha-3 | 64: 1.0-alpha-4 | 75: 1.0 | 66: 1.1 | 7: 1.3 | 8: 1.4 | Choose a number: 8: |
```

```
Choose a number: 8:
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/
1.4/maven-archetype-quickstart-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1
.4/maven-archetype-quickstart-1.4.pom (1.6 kB at 4.7 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4
/maven-archetype-bundles-1.4.pom
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-bundles/1.4/
maven-archetype-bundles-1.4.pom (4.5 kB at 13 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/
1.4/maven-archetype-quickstart-1.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-archetype-quickstart/1
.4/maven-archetype-quickstart-1.4.jar (7.1 kB at 19 kB/s)
Define value for property 'groupId': com.example
Define value for property 'artifactId': demo
Define value for property 'version' 1.0-SNAPSHOT: :
Define value for property 'package' com.example: :
Confirm properties configuration:
groupId: com.example
artifactId: demo
version: 1.0-SNAPSHOT
package: com.example
```



#### \$ mvn compile

```
C:\SpringHome>cd demo
C:\SpringHome\demo>mvn compile
[INFO] Scanning for projects...
[INFO]
[INFO] ------ < com.example:demo >-----
[INFO] Building demo 1.0-SNAPSHOT
[INFO] ------[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-resources-plugin/3.0.2/m
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-compiler-javac/2.8.4/plexus-c
ompiler-javac-2.8.4.jar (21 kB at 16 kB/s)
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\SpringHome\demo\target\classes
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] ------
[INFO] Total time: 39.171 s
[INFO] Finished at: 2019-10-08T14:29:01+09:00
C:\SpringHome\demo>
```

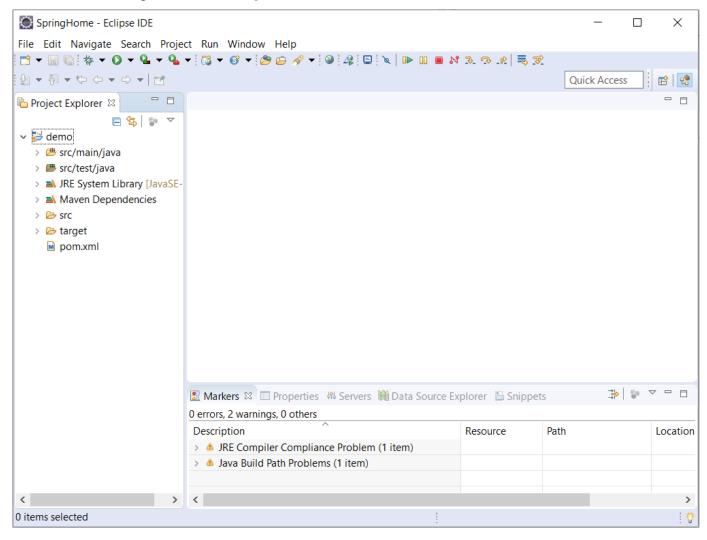
#### \$ mvn test

```
C:\SpringHome\demo>mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] Building demo 1.0-SNAPSHOT
[INFO] ------[ jar ]-----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-surefire-plugin/2.22.1/m
DOWNIOAURU TROM CENTRAL: NETPS://repo.Maven.apache.org/Mavenz/org/apache/Maven/suretire/suretire-junit4/z.zz.i/suretir
e-junit4-2.22.1.jar (85 kB at 247 kB/s)
[INFO]
[INFO] ------
[INFO] TESTS
[INFO] -----
[INFO] Running com.example.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.032 s - in com.example.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO] BUILD SUCCESS
[INFO] Total time: 21.830 s
[INFO] Finished at: 2019-10-08T14:34:56+09:00
C:\SpringHome\demo>_
```

#### \$ mvn package

```
C:\SpringHome\demo>mvn package
[INFO] Scanning for projects...
[INFO]
[INFO] Building demo 1.0-SNAPSHOT
[INFO] -----
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-jar-plugin/3.0.2/maven-j
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.11/commons-compres
s-1.11.jar (426 kB at 245 kB/s)
[INFO] Building jar: C:\SpringHome\demo\target\demo-1.0-SNAPSHOT.jar
[INFO] BUILD SUCCESS
[INFO] ------
[INFO] Total time: 10.342 s
[INFO] Finished at: 2019-10-08T14:39:01+09:00
[INFO] -----
C:\SpringHome\demo>_
```

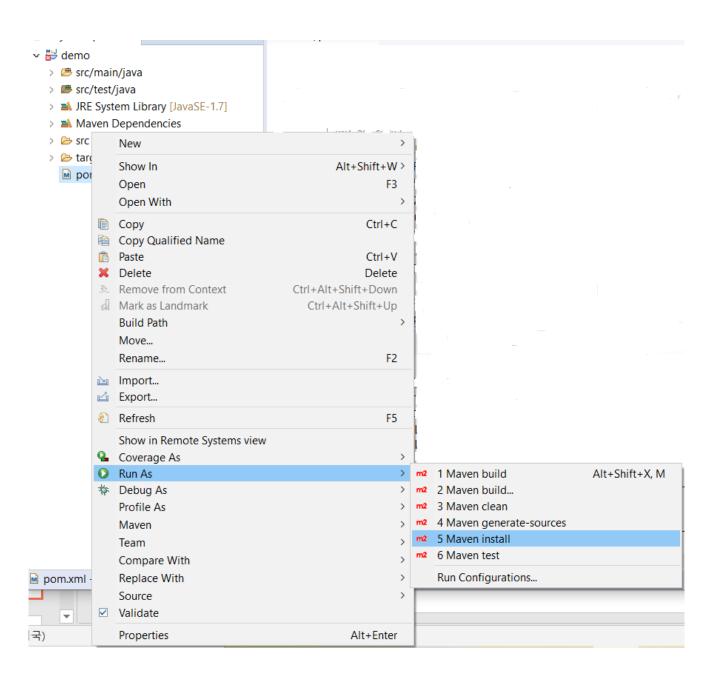
■ Eclipse에서 Maven Project Import 하기

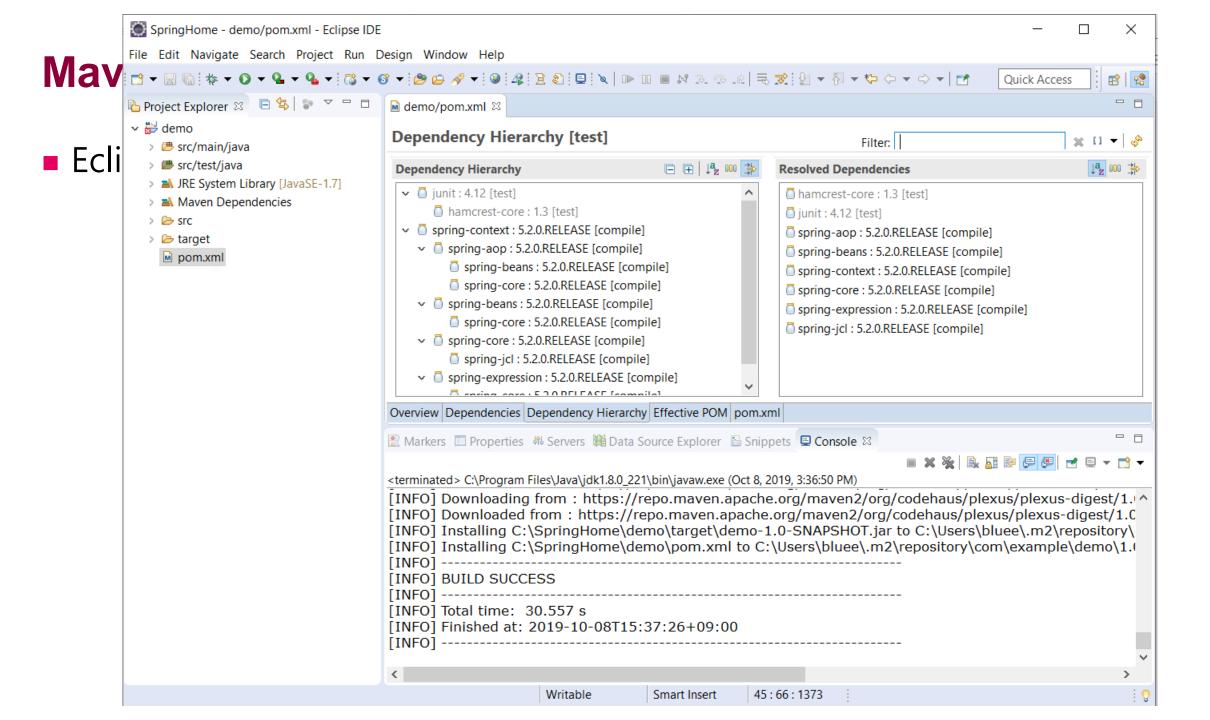


■ Eclipse에서 Maven Project Import 하기

```
<dependencies>
 23⊖
         <dependency>
            <groupId>junit</groupId>
 24
 25
            <artifactId>junit</artifactId>
            <version>4.12</version>
 26
 27
            <scope>test</scope>
 28
         </dependency>
 29
         <!-- https://mvnrepository.com/artifact/org.springframework/spring-core -->
         <dependency>
30⊝
31
            <groupId>org.springframework</groupId>
            <artifactId>spring-context</artifactId>
 32
 33
            <version>5.2.0.RELEASE</version>
 34
         </dependency>
35
       </dependencies>
36
 379
       <build>
 38⊜
         <plu><pluginManagement></pl>
            <plugins>
 39⊜
40⊖
              <plugin>
41
                 <artifactId>maven-compiler-plugin</artifactId>
                 <configuration>
429
43
                   <source>1.8</source>
44
                   <target>1.8</target>
45
                   <encoding>${project.build.sourceEncoding}</encoding>
46
                 </configuration>
              </plugin>
47
                                                                                              >
```

Eclipse에서 Maven Project Import 하기





# IV. Maven Project In Eclipse

#### **Maven Project in Eclipse**

```
Project Explorer \ □ 🕒 🥞 👂 🗸 🗀

    demo/pom.xml
    demo/pom.xml

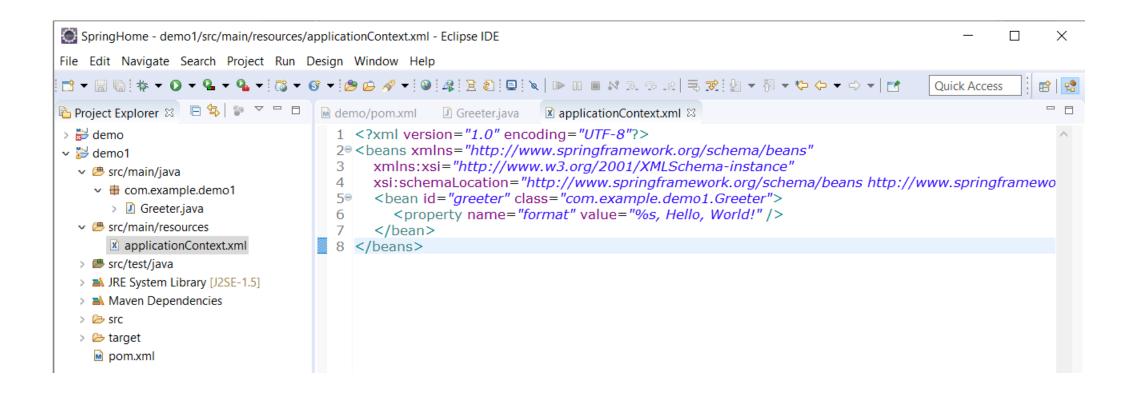
                                                                                                                                                                                                                                                              ☑ Greeter.java 

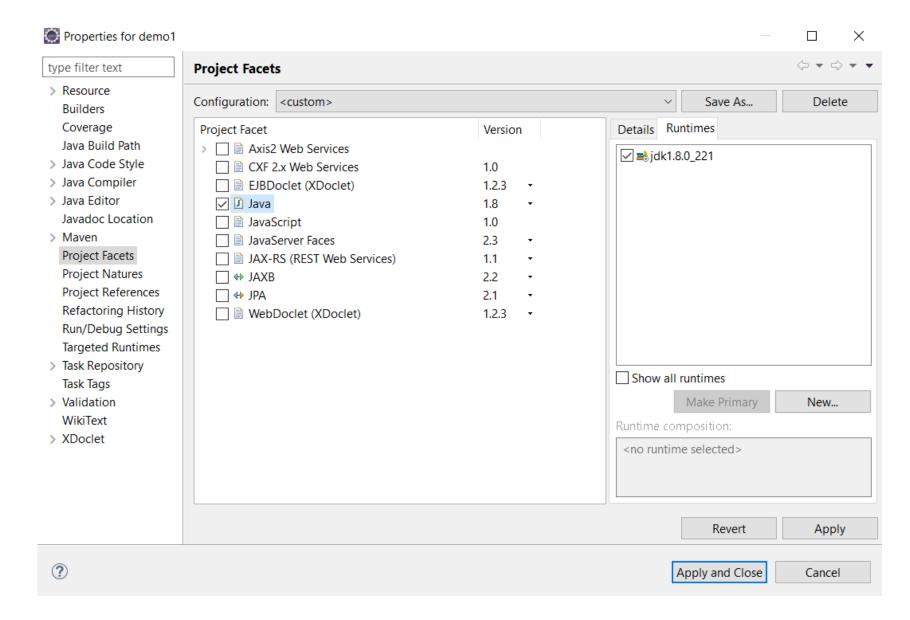
  > 👺 demo
                                                                                                                                                                                                   package com.example.demo1;
                                                                                                                                                                                          2
  public class Greeter {
             private String format;

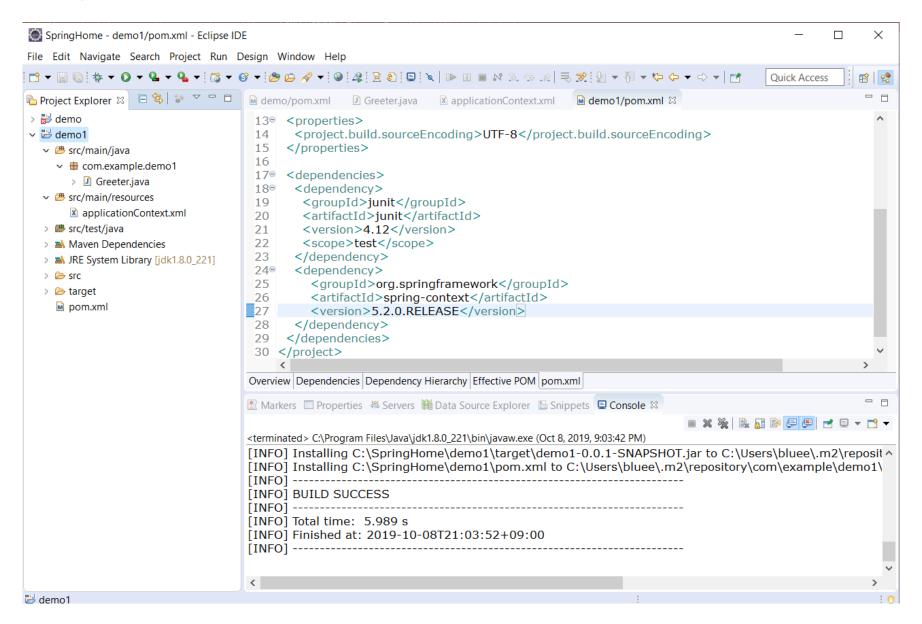
√ 

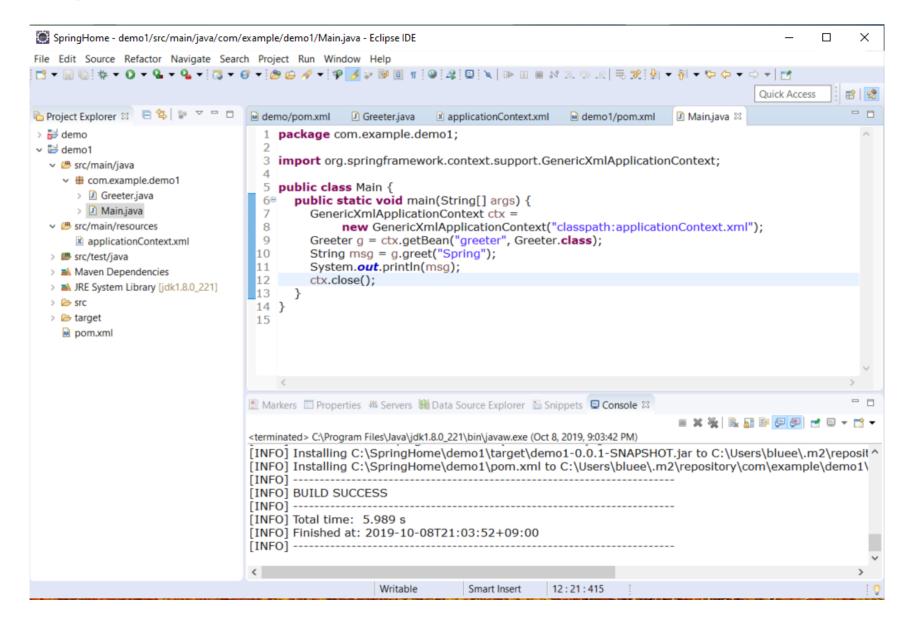
⊕ com.example.demo1

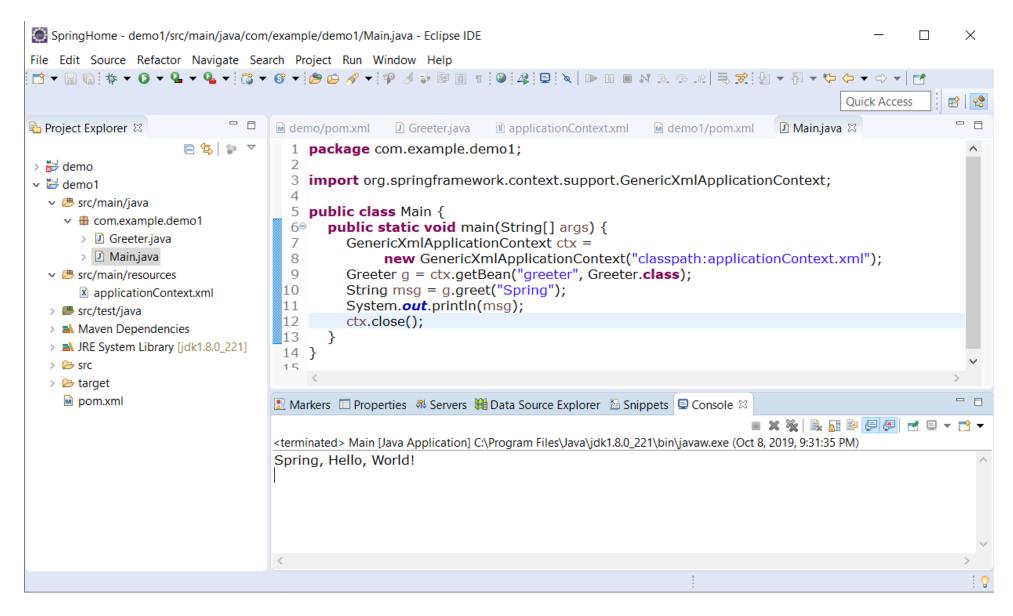
                                   6⊜
                                                                                                                                                                                                                 public String greet(String guest) {
              > # src/test/java
                                                                                                                                                                                                                              return String.format(format, guest);
             > A JRE System Library [J2SE-1.5]
                                                                                                                                                                                          8
                                                                                                                                                                                         9
             > Maven Dependencies
                                                                                                                                                                                                                  public void setFormat(String format) {
                                                                                                                                                                                   10⊝
            11
                                                                                                                                                                                                                              this.format = format;
                       v 🗁 main
                                                                                                                                                                                  12
                                  java
                                                                                                                                                                                  13 }
                                            14
                                                      example
                                                                  Greeter.java
                        > 🗁 test
             > 🗁 target
```











# V. Tomcat 9.0.26

#### **Tomcat Installation**

http://tomcat.apache.org/



#### Apache Tomcat<sup>®</sup>





Save the date!

#### **Apache Tomcat**

Home Taglibs Maven Plugin

#### Download

Which version? Tomcat 9

Tomcat 8

Tomcat 7

Tomcat Connectors

Tomcat Native

Taglibs

Archives

#### Documentation

Tomcat 9.0 Tomcat 8.5

#### **Apache Tomcat**

The Apache Tomcat<sup>®</sup> software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket technologies. The Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket specifications are developed under the Java Community Process.

The Apache Tomcat software is developed in an open and participatory environment and released under the Apache License version 2. The Apache Tomcat project is intended to be a collaboration of the best-of-breed developers from around the world. We invite you to participate in this open development project. To learn more about getting involved, click here.

Apache Tomcat software powers numerous large-scale, mission-critical web applications across a diverse range of industries and organizations. Some of these users and their stories are listed on the **PoweredBy** wiki page.

Apache Tomcat, Tomcat, Apache, the Apache feather, and the Apache Tomcat project logo are trademarks of the Apache Software Foundation.

#### Tomcat 9.0.26 Released 2019-09-19

The Apache Tomcat Project is proud to announce the release of version 9.0.26 of Apache Tomcat. The notable changes compared to 9.0.24 include:

- Update to Commons Daemon 1.2.1 to pick up fixes for regressions in Commons Daemon 1.2.0, most notably a failure to start when using a 32-bit JVM on Windows.
- Avoid an NPE when accessing an https port using http.
- Correct the invalid automatic module names for the embedded IARs.
- Fix a potential hang when using HTTP/2 with the asynchronous Servlet API.

Full details of these changes, and all the other changes, are available in the Tomcat 9 changelog.

Download

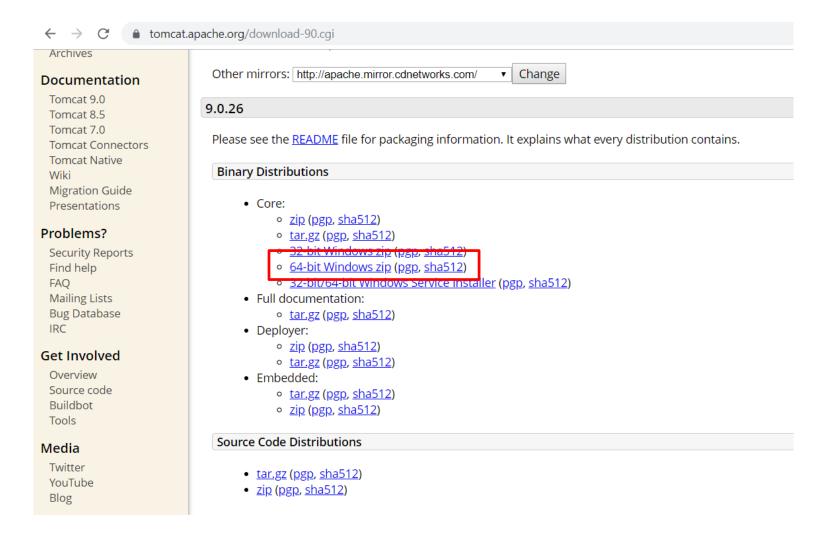
#### **Tomcat Installation (Cont.)**

http://tomcat.apache.org/whichversion.html

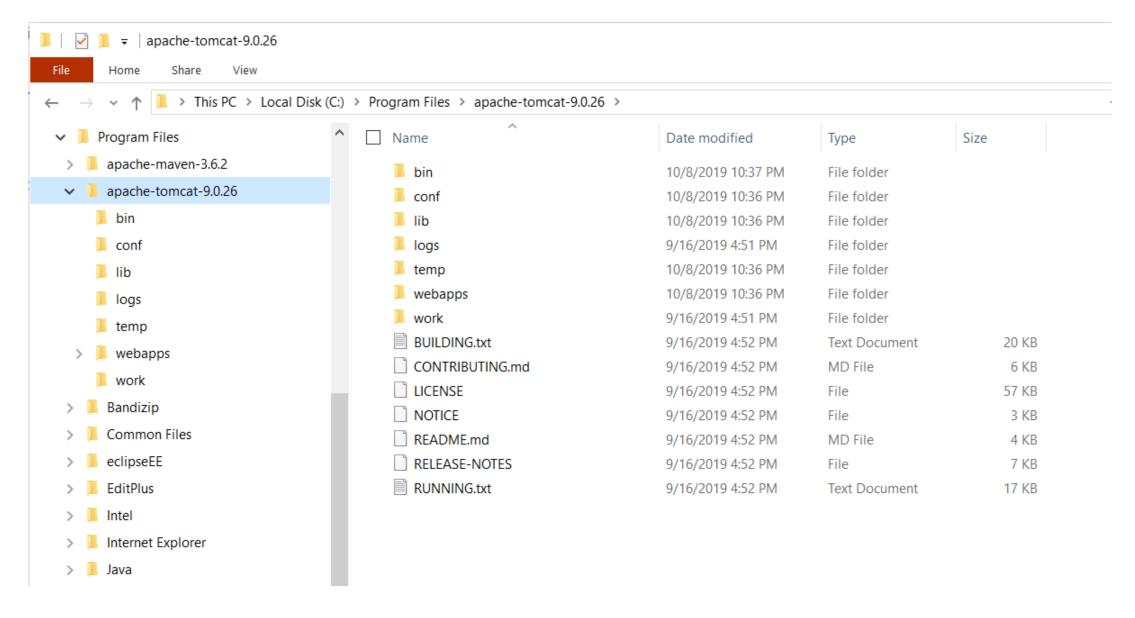
Servlet Spec	JSP Spec	EL Spec	WebSocket Spec	JASPIC Spec	Apache Tomcat Version	Latest Released Version	Supported Java Versions
4.0	2.3	3.0	1.1	1.1	9.0.x	9.0.26	8 and later
3.1	2.3	3.0	1.1	1.1	8.5.x	8.5.46	7 and later
3.1	2.3	3.0	1.1	N/A	8.0.x (superseded)	8.0.53 (superseded)	7 and later
3.0	2.2	2.2	1.1	N/A	7.0.x	7.0.96	6 and later (7 and later for WebSocket)
2.5	2.1	2.1	N/A	N/A	6.0.x (archived)	6.0.53 (archived)	5 and later
2.4	2.0	N/A	N/A	N/A	5.5.x (archived)	5.5.36 (archived)	1.4 and later
2.3	1.2	N/A	N/A	N/A	4.1.x (archived)	4.1.40 (archived)	1.3 and later
2.2	1.1	N/A	N/A	N/A	3.3.x (archived)	3.3.2 (archived)	1.1 and later

### **Tomcat Installation (Cont.)**

https://tomcat.apache.org/download-90.cgi



#### **Tomcat Installation (Cont.)**



### **Tomcat Installation (Cont.)**

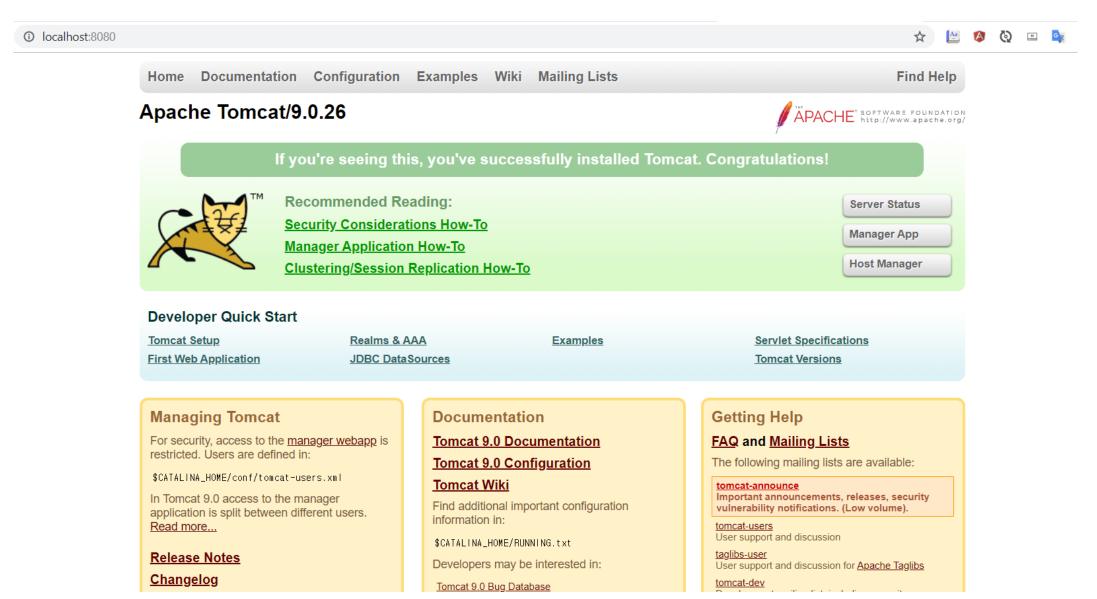
```
C:\Users\bluee>set PATH
Path=C:\Program Files\Java\jdk1.8.0_221\bin;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\S
ystem32\WindowsPowerShell\v1.0\;C:\Windows\System32\OpenSSH\;C:\Program Files\apache-maven-3.6.2\bin;C:\Program
Files\apache-tomcat-9.0.26\bin;C:\Users\bluee\AppData\Local\Microsoft\WindowsApps;C:\Program Files\Bandizip\
PATHEXT=.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
```

## **Tomcat Configuration**

```
C:\Users\bluee>cd %CATALINA HOME%\bin
C:\Program Files\apache-tomcat-9.0.26\bin>startup
Using CATALINA BASE: "C:\Program Files\apache-tomcat-9.0.26"
Using CATALINA HOME: "C:\Program Files\apache-tomcat-9.0.26"
Using CATALINA TMPDIR: "C:\Program Files\apache-tomcat-9.0.26\temp"
Using JRE HOME:
                              "C:\Program Files\Java\jdk1.8.0 221"
Using CLASSPATH:
                              "C:\Program Files\apache-tomcat-9.0.26\bin\bootstrap.jar;C:\Program Files\apache-tomcat-9
.0.26\bin\tomcat-juli.jar"
                                                                                   Windows Security Alert
C:\Program Files\apache-tomcat-9.0.26\bin>
                                                                                          Windows Defender Firewall has blocked some features of this
                                                                                   Windows Defender Firewall has blocked some features of Java(TM) Platform SE binary on all
                                                                                   public and private networks.
                                                                                                             Java(TM) Platform SE binary
                                                                                                  Publisher:
                                                                                                             Oracle Corporation
                                                                                                             C:\program files\java\jdk1.8.0_221\bin\java.exe
                                                                                                  Path:
                                                                                   Allow Java(TM) Platform SE binary to communicate on these networks:
                                                                                     Private networks, such as my home or work network
                                                                                     Public networks, such as those in airports and coffee shops (not recommended
                                                                                        because these networks often have little or no security)
                                                                                   What are the risks of allowing an app through a firewall?
```

Allow access

Cancel



"CATALINA\_HOME%/conf/tomcat-users.xml"

```
NOTE: By default, no user is included in the "manager-gui" role required
23
      to operate the "/manager/html" web application. If you wish to use this app,
24
     you must define such a user - the username and password are arbitrary. It is
25
26
      strongly recommended that you do NOT use one of the users in the commented out
      section below since they are intended for use with the examples web
27
      application.
28
    -->
    <user username="admin" password="tomcatadmin" roles="admin-gui,manager-gui"/>
31 🗆 <!--
      NOTE: The sample user and role entries below are intended for use with the
32
      examples web application. They are wrapped in a comment and thus are ignored
33
      when reading this file. If you wish to configure these users for use with the
34
35
      examples web application, do not forget to remove the <!.. ..> that surrounds
      them. You will also need to set the passwords to something appropriate.
36
37
    -->
```

■ %CATALINA\_HOME%/webapps/homecontext.xml 생성

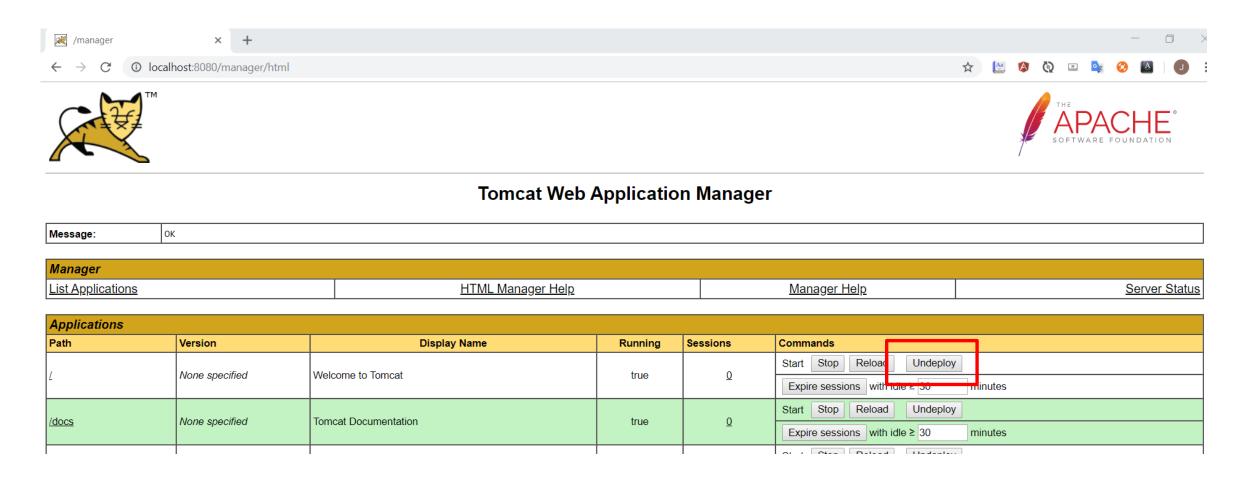
```
<Context path="" docBase="C:/SpringHome" debug="0" reloadable="true" crossContext="true" privileged="true" />
```

- %CATALINA\_HOME%/webapps/ROOT/WEB-INF 복사
- C:/SpringHome 하위에 붙여넣기
- C:/SpringHome/WEB-INF/web.xml 수정

```
<?xml version="1.0" encoding="UTF-8"?>
 2 □ <web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
     xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
                    http://xmlns.jcp.org/xml/ns/javaee/web-app_4_0.xsd"
 5
     version="4.0"
     metadata-complete="true">
      <display-name>Welcome to Spring Homepage</display-name>
10 ⊟
    </web-app>
```

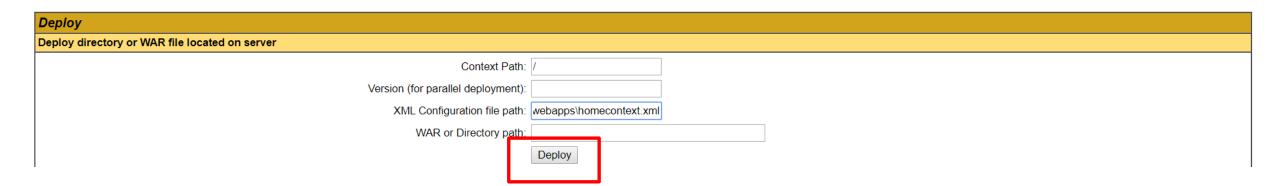
■ C:/SpringHome/index.html 생성

■ [Tomcat Web Application Manager]에서 / Path undeploy

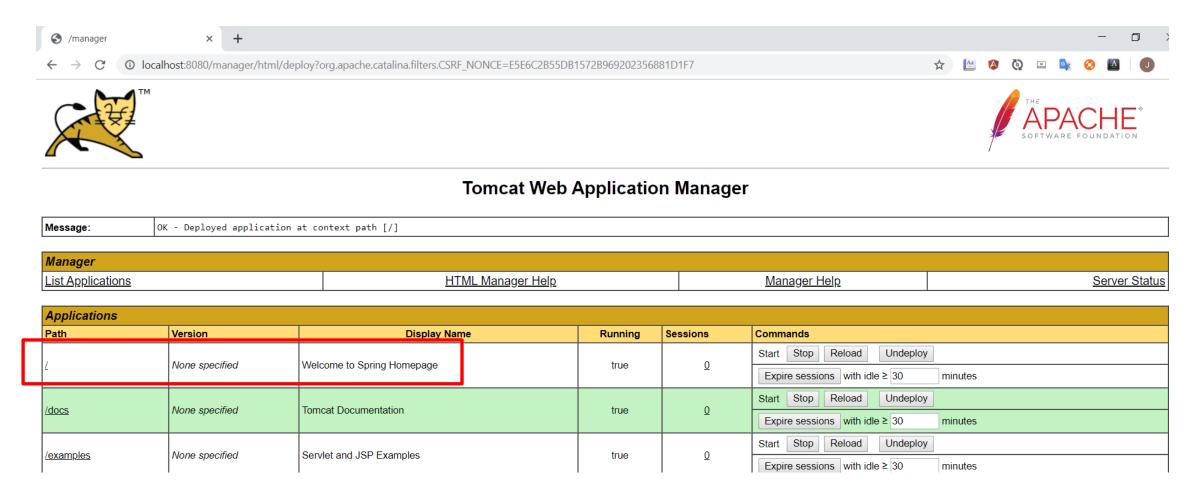


- [Tomcat Web Application Manager]에서 / Path deploy
  - Context Path : /
  - XML Configuration file path :

C:\Program Files\apache-tomcat-9.0.26\webapps\homecontext.xml



■ [Tomcat Web Application Manager]에서 / Path deploy

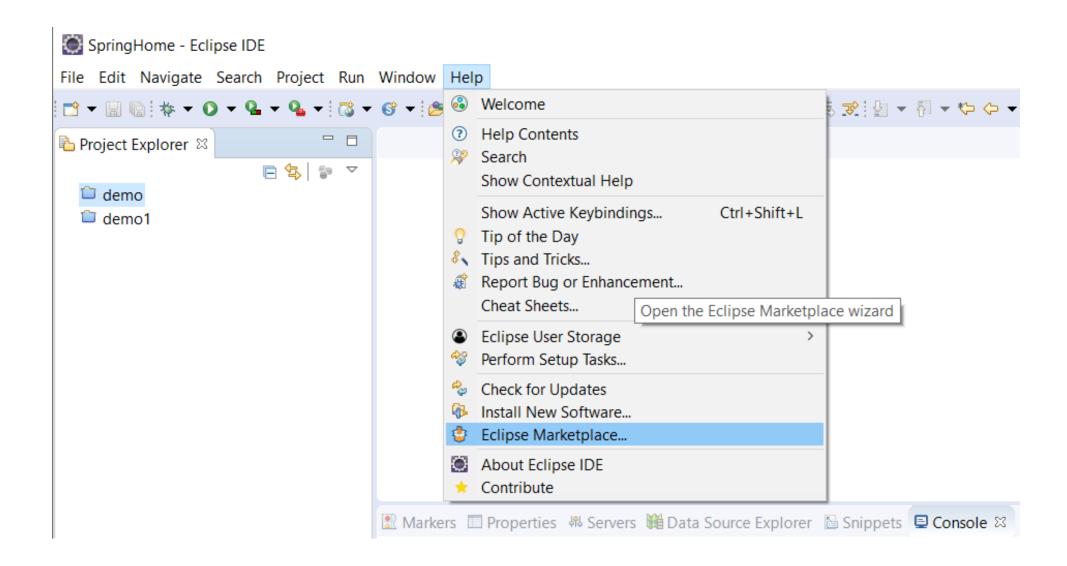




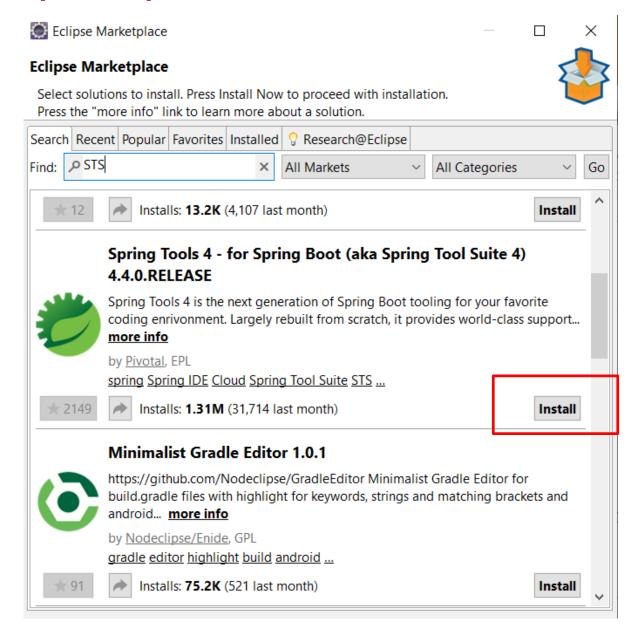
Welcome Spring 5

# VI. STS 4.4.0.RELEASE

#### **STS Downloads**

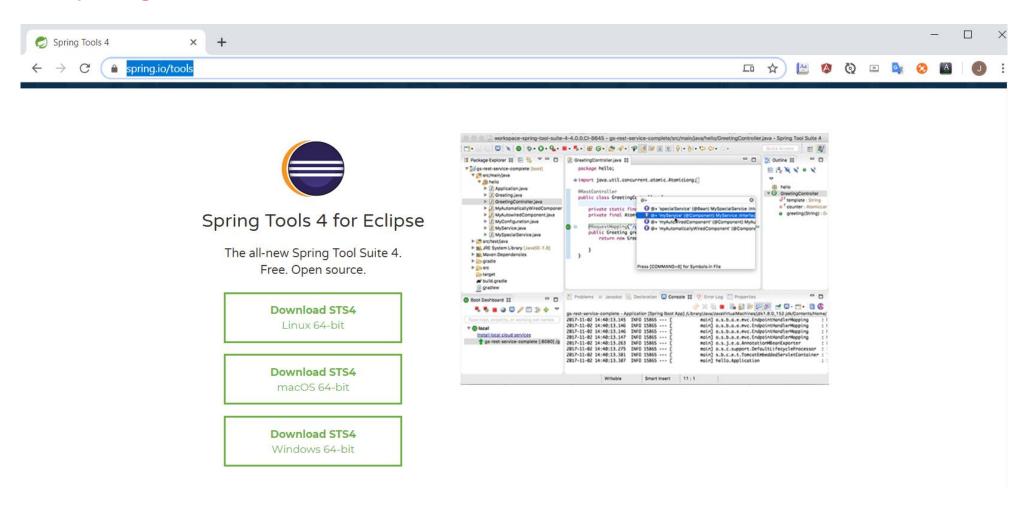


### **STS Downloads (Cont.)**

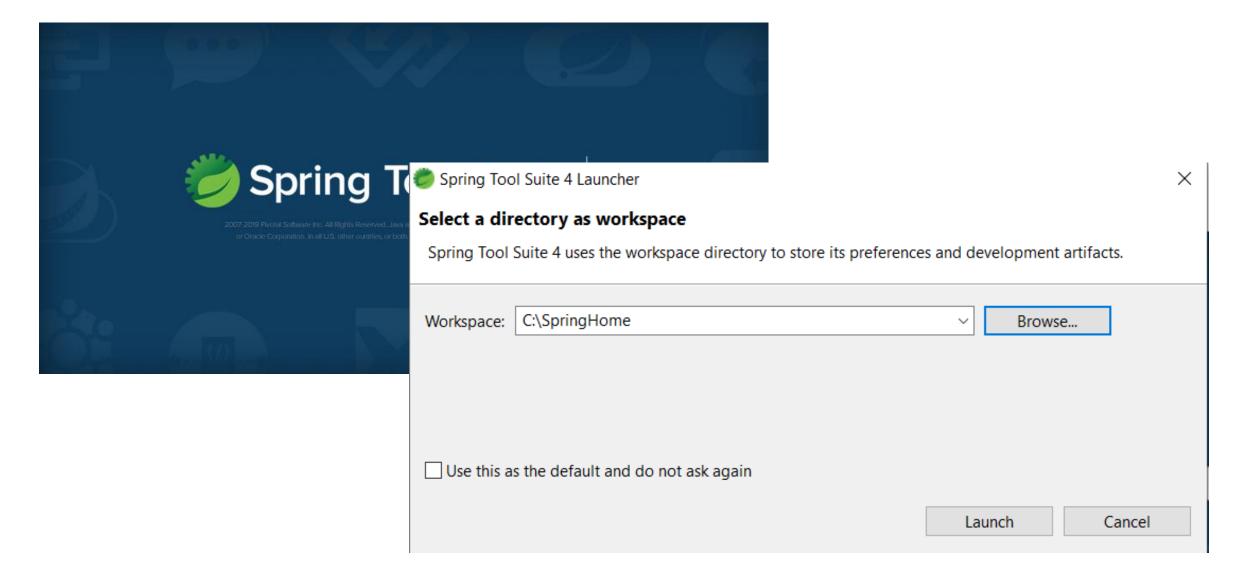


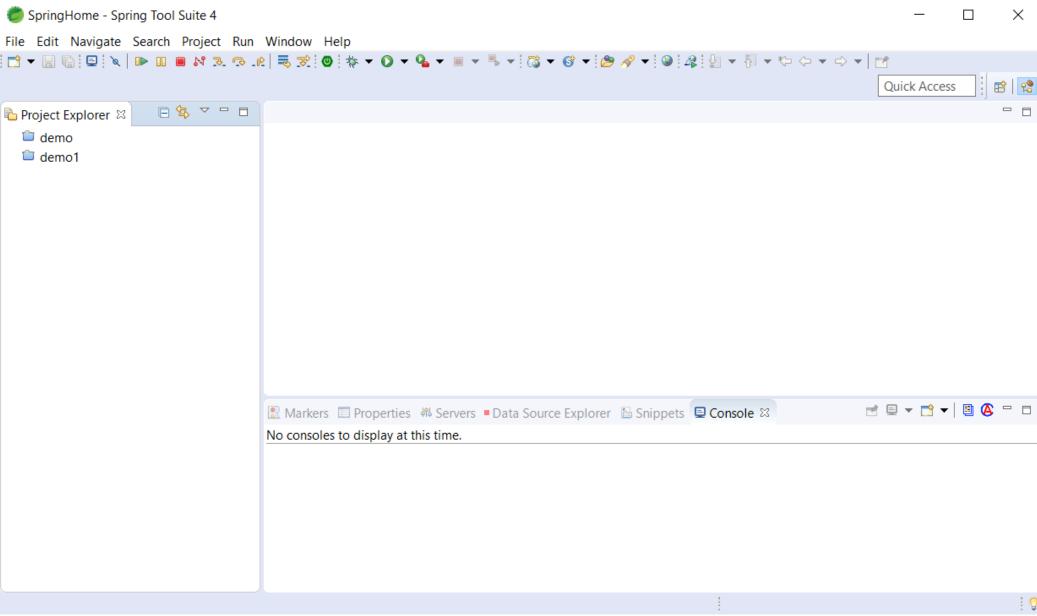
### **STS Downloads (Cont.)**

https://spring.io/tools

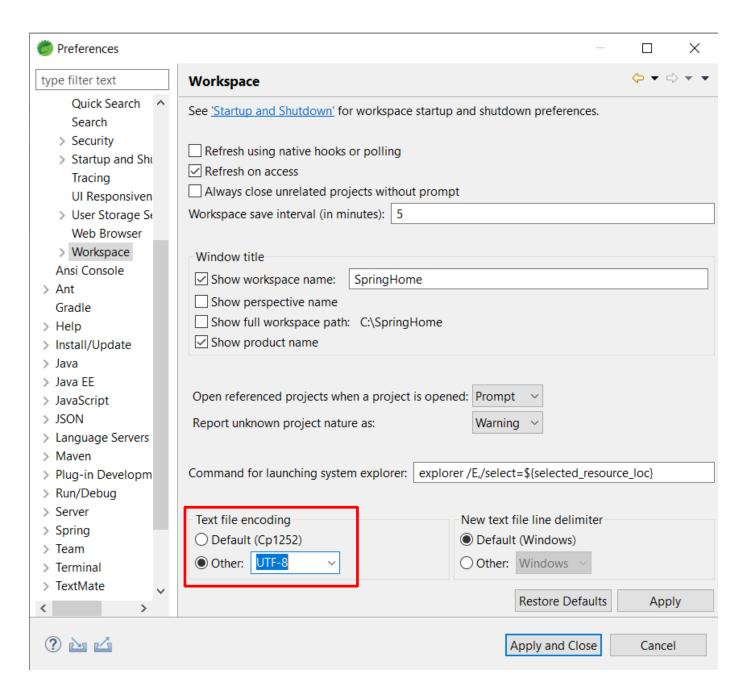


### **STS Configuration**

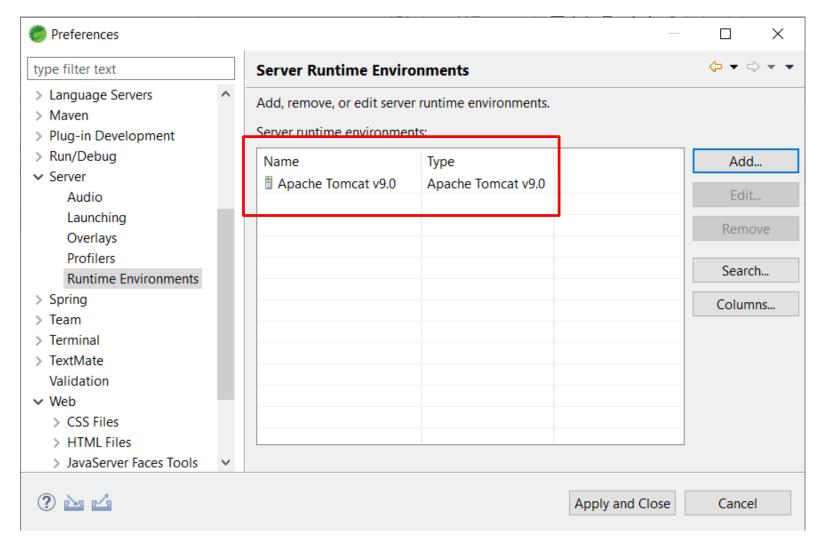




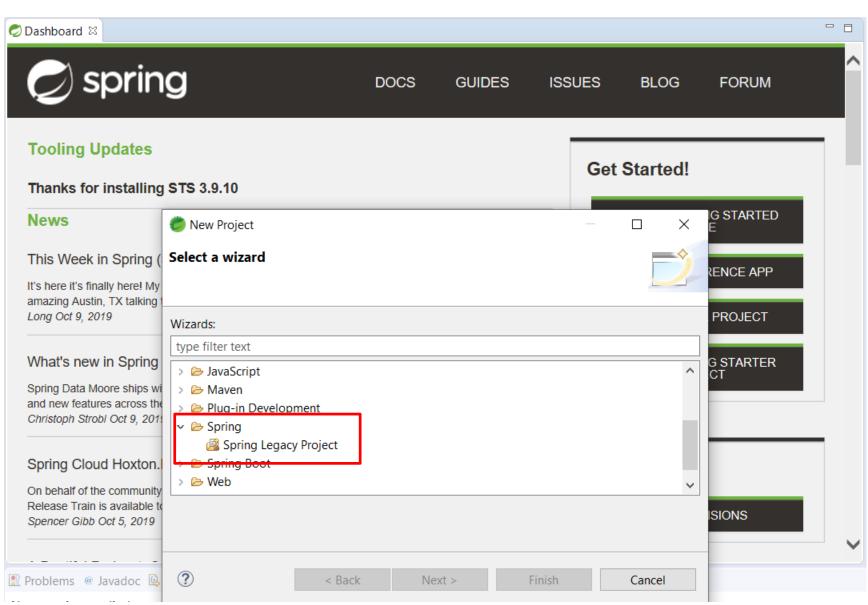
■ Workspace의 UTF-8 설정하기



■ STS4에 Tomcat 등록하기



STS4에 STS3 Add-On Installation

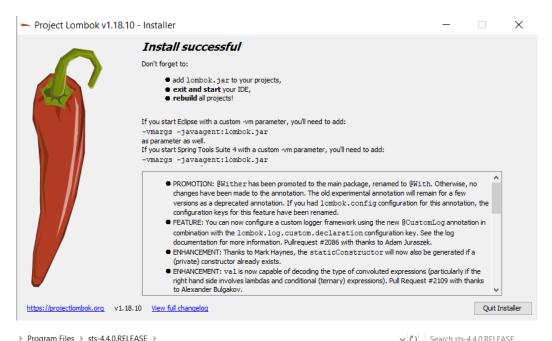


# VII. Lombok v1.18.10

#### **Lombok Installation**



Program Files > eclipseEE		∨ ひ Searc	h eclipseEE 📝
Name	Date modified	Туре	Size
configuration	10/8/2019 11:54 PM	File folder	
dropins	9/17/2019 2:04 AM	File folder	
features	10/8/2019 2:56 PM	File folder	
p2	10/8/2019 11:44 PM	File folder	
plugins	10/8/2019 3:04 PM	File folder	
📙 readme	10/8/2019 3:04 PM	File folder	
.eclipseproduct	9/16/2019 10:54 AM	ECLIPSEPRODUCT File	1 KB
artifacts.xml	9/17/2019 2:04 AM	XML Document	277 KB
eclipse.exe	9/17/2019 2:05 AM	Application	416 KB
eclipse.ini	10/10/2019 4:51 PM	Configuration settings	1 KB
eclipsec.exe	9/17/2019 2:05 AM	Application	128 KB
	10/10/2019 4:51 PM	Executable Jar File	1,723 KB



Ografii Files / StS-4.4.0.RELEASE /		V O Scal	Search Sts-4.4.0.RELEASE	
] Name	Date modified	Туре	Size	
configuration	10/10/2019 4:32 PM	File folder		
dropins	9/17/2019 7:41 AM	File folder		
features	10/10/2019 4:28 PM	File folder		
META-INF	10/8/2019 11:48 PM	File folder		
<mark>⊫</mark> p2	10/9/2019 12:08 AM	File folder		
plugins	10/10/2019 4:28 PM	File folder		
📙 readme	10/8/2019 11:47 PM	File folder		
.eclipseproduct	9/16/2019 10:54 AM	ECLIPSEPRODUCT File	1 KE	
artifacts.xml	10/10/2019 4:28 PM	XML Document	219 KE	
eclipsec.exe	9/17/2019 7:38 AM	Application	127 KE	
license.txt	9/17/2019 7:14 AM	Text Document	12 KE	
	10/10/2019 4:51 PM	Executable Jar File	1,723 KE	
open-source-licenses.txt	9/17/2019 7:42 AM	Text Document	941 KE	
SpringToolSuite4.exe	9/17/2019 7:38 AM	Application	415 KE	
🔊 SpringToolSuite4.ini	10/10/2019 4:51 PM	Configuration settings	1 KE	