

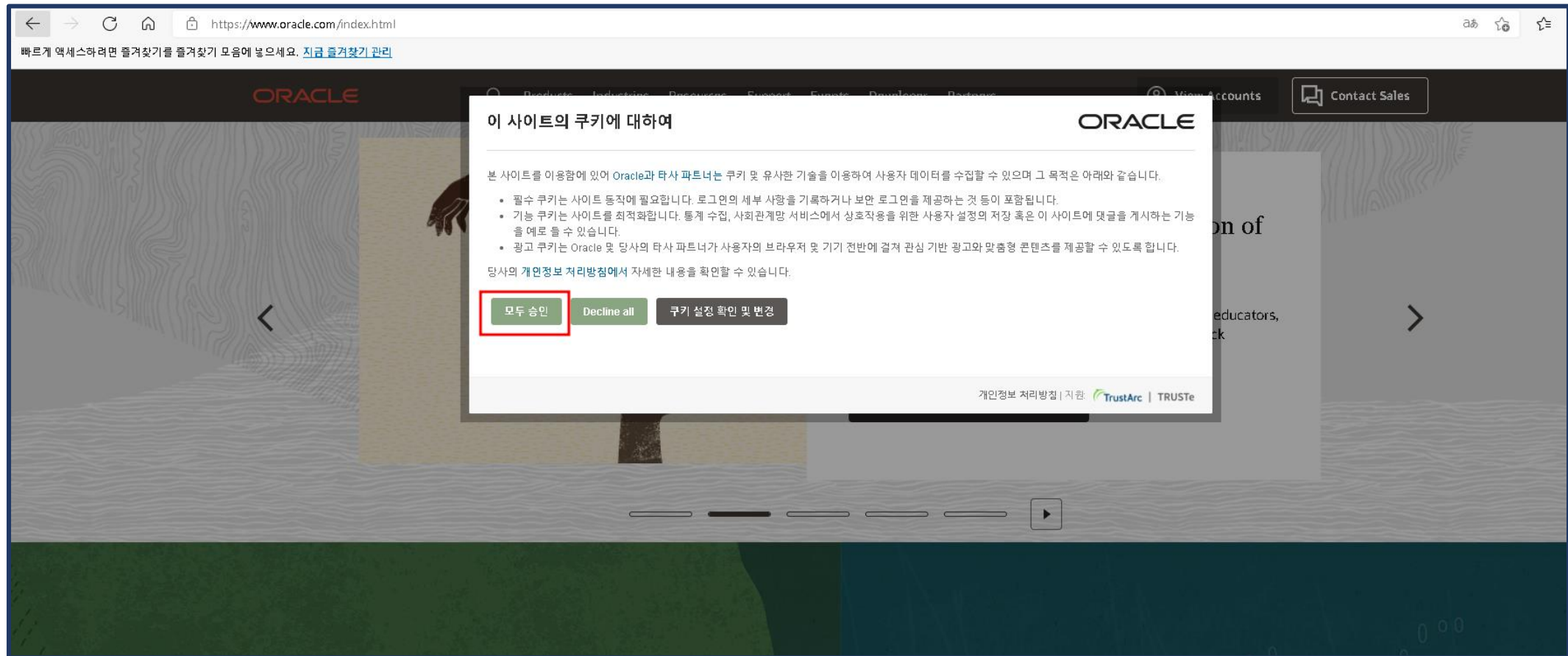
# JDK 다운 및 설치

제어판 > 시스템 및 보안 > 시스템으로 가서 시스템 종류를 확인한다.



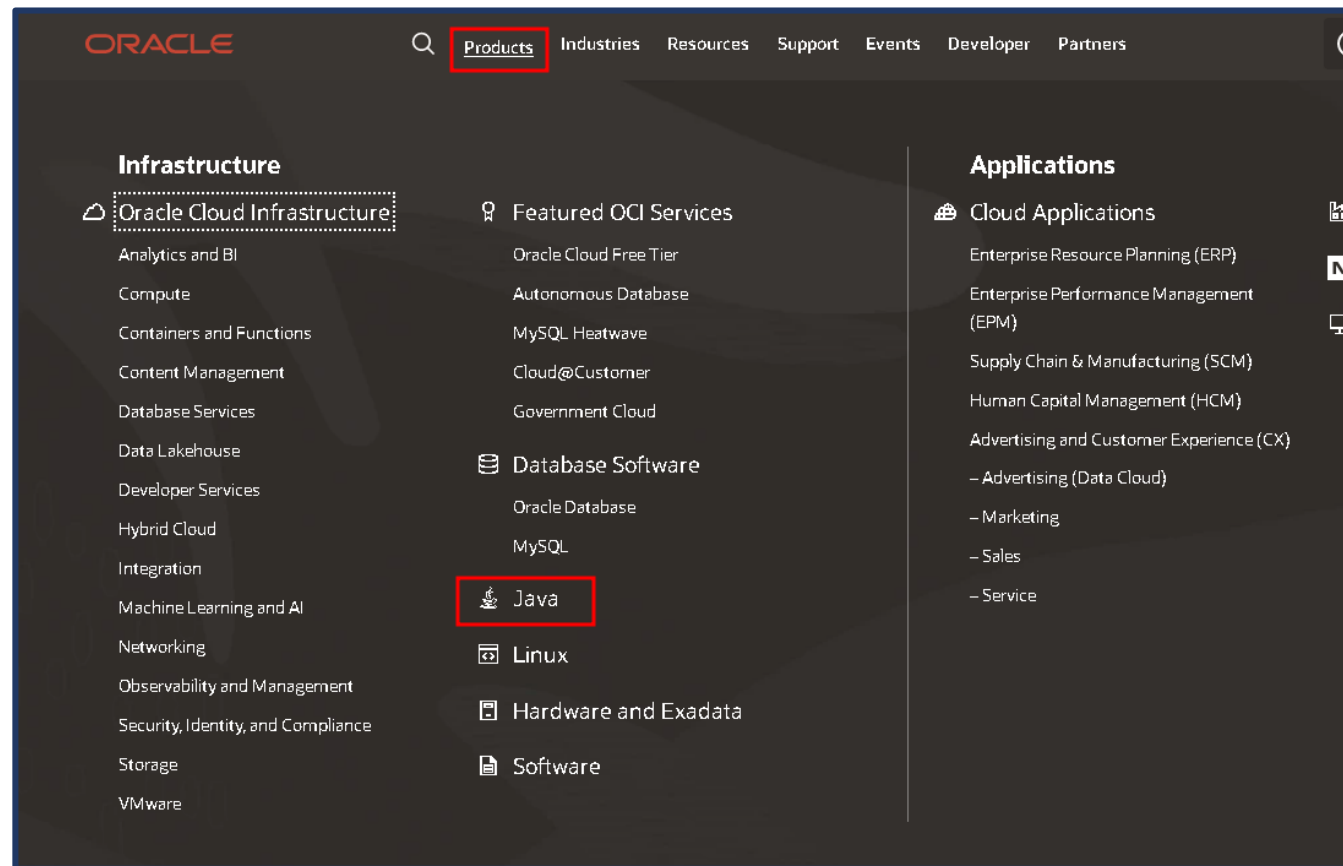
# JDK 다운 및 설치

https://www.oracle.com 사이트에 접속한다.



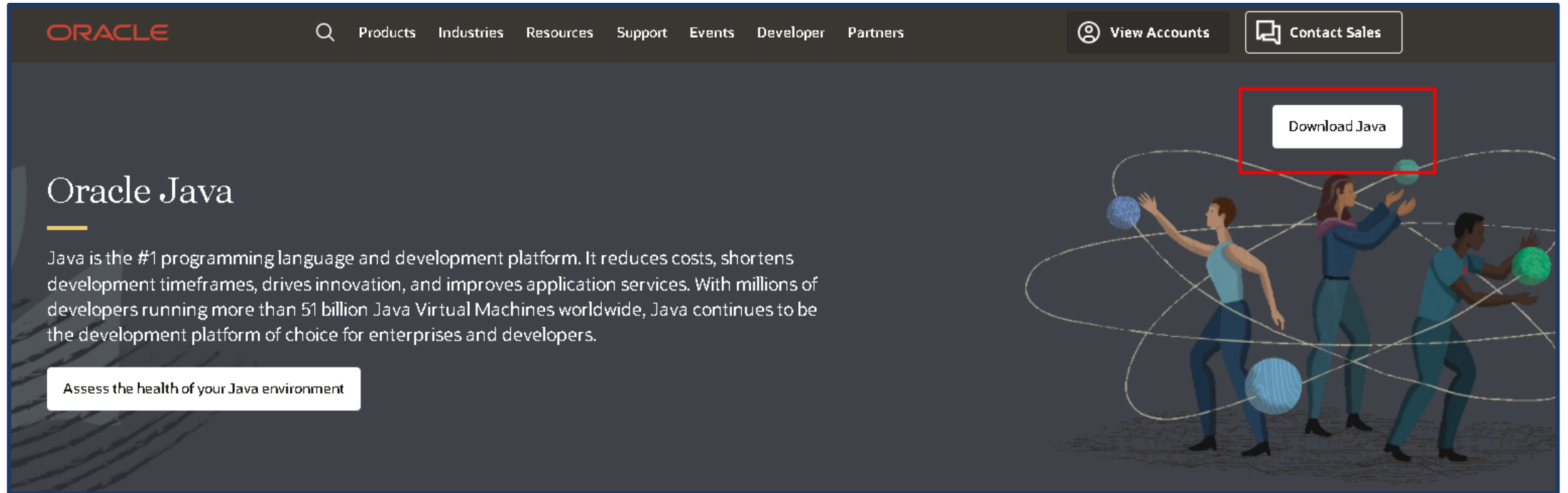
# JDK 다운 및 설치

좌측 상단에 Product 클릭 후 아래쪽 Java 클릭!



# JDK 다운 및 설치

우측 상단에 Download Java 클릭!



# JDK 다운 및 설치

아래로 스크롤을 하면 Java8 버전과 Java11 버전이 보인다.  
Java 11 클릭 후 자신의 운영체제에 맞게 다운 받자!!

**Java SE subscribers have more choices**

Also available for development, personal use, and to run other licensed Oracle products.

Java 8 **Java 11**

---

**Java SE Development Kit 11.0.14**

Java SE subscribers will receive JDK 11 updates until at least **September of 2026**.



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JDK 11 software is licensed under the [Oracle Technology Network License Agreement for Oracle Java SE](#).

JDK 11.0.14 [checksum](#)

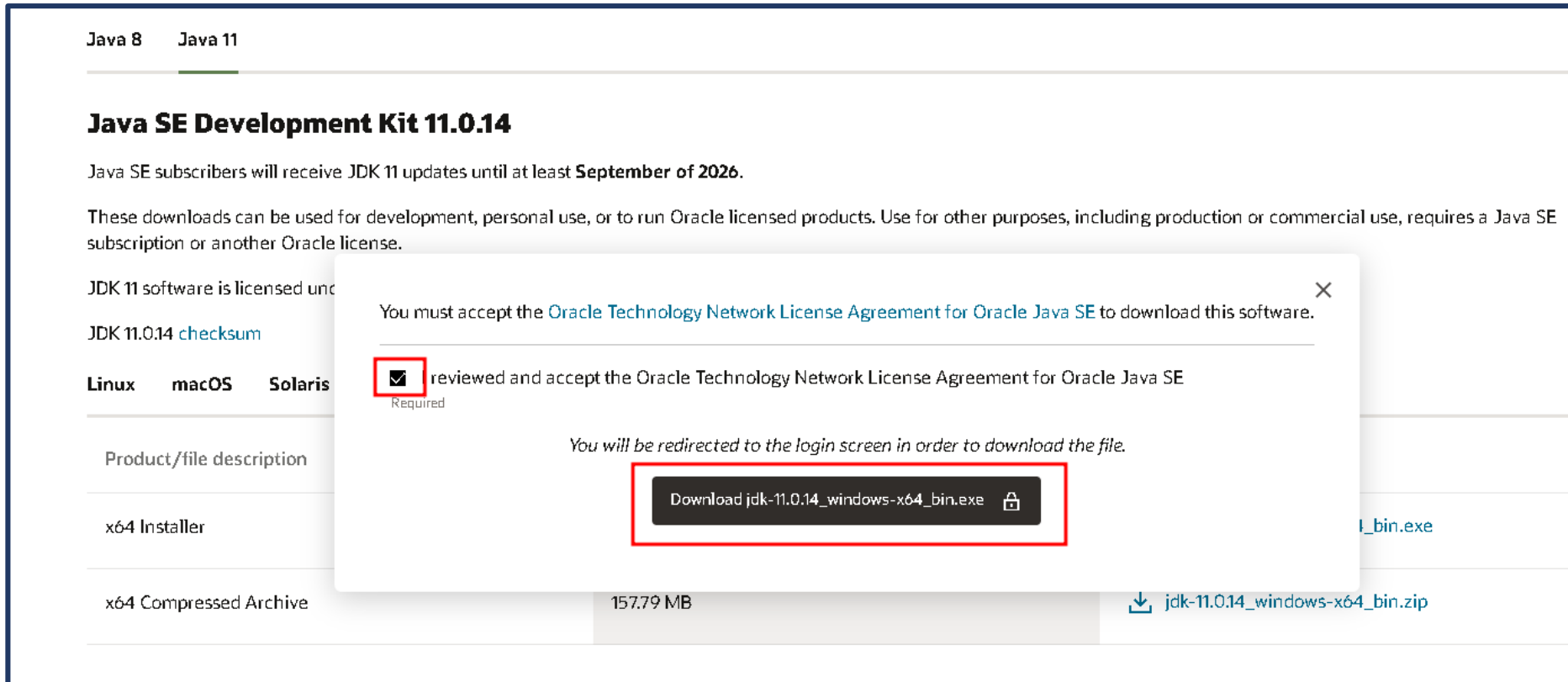
Linux macOS Solaris **Windows**

---

Product/file description	File size	Download
x64 Installer	140.24 MB	 <a href="#">jdk-11.0.14_windows-x64_bin.exe</a>
x64 Compressed Archive	157.79 MB	 <a href="#">jdk-11.0.14_windows-x64_bin.zip</a>

# JDK 다운 및 설치

라이선스 동의 후 클릭!



The screenshot shows the Oracle JDK 11.0.14 download page. At the top, there are tabs for "Java 8" and "Java 11", with "Java 11" selected. Below the tabs, the title "Java SE Development Kit 11.0.14" is displayed. A notice states: "Java SE subscribers will receive JDK 11 updates until at least **September of 2026**." Below this, a disclaimer reads: "These downloads can be used for development, personal use, or to run Oracle licensed products. Use for other purposes, including production or commercial use, requires a Java SE subscription or another Oracle license." The page lists operating systems: "Linux", "macOS", and "Solaris". Under "Linux", there are links for "JDK 11.0.14 checksum", "x64 Installer", and "x64 Compressed Archive". A modal dialog is open in the center, titled "You must accept the Oracle Technology Network License Agreement for Oracle Java SE to download this software." It contains a checkbox labeled "I have reviewed and accept the Oracle Technology Network License Agreement for Oracle Java SE" which is checked and highlighted with a red box. Below the checkbox, it says "Required". At the bottom of the modal, there is a button labeled "Download jdk-11.0.14\_windows-x64\_bin.exe" with a lock icon, also highlighted with a red box. The modal also includes the text "You will be redirected to the login screen in order to download the file." and a close button (X) in the top right corner.

Java 8 Java 11

## Java SE Development Kit 11.0.14

Java SE subscribers will receive JDK 11 updates until at least **September of 2026**.

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JDK 11 software is licensed under the [Oracle Java SE License](#).

JDK 11.0.14 [checksum](#)

Linux macOS Solaris

Product/file description

x64 Installer

x64 Compressed Archive 157.79 MB [jdk-11.0.14\\_windows-x64\\_bin.zip](#)

You must accept the [Oracle Technology Network License Agreement for Oracle Java SE](#) to download this software.

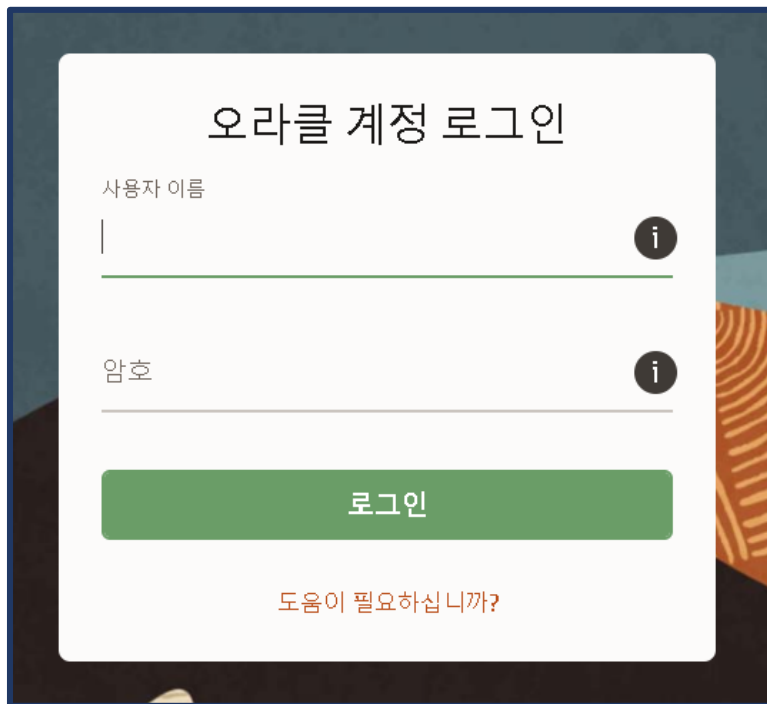
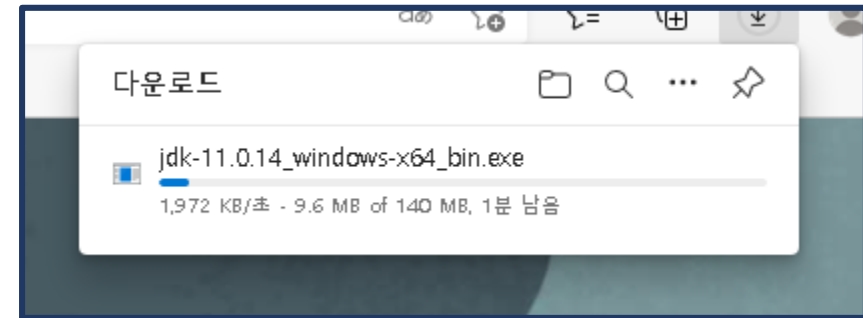
☒ I have reviewed and accept the Oracle Technology Network License Agreement for Oracle Java SE  
Required

You will be redirected to the login screen in order to download the file.

Download jdk-11.0.14\_windows-x64\_bin.exe

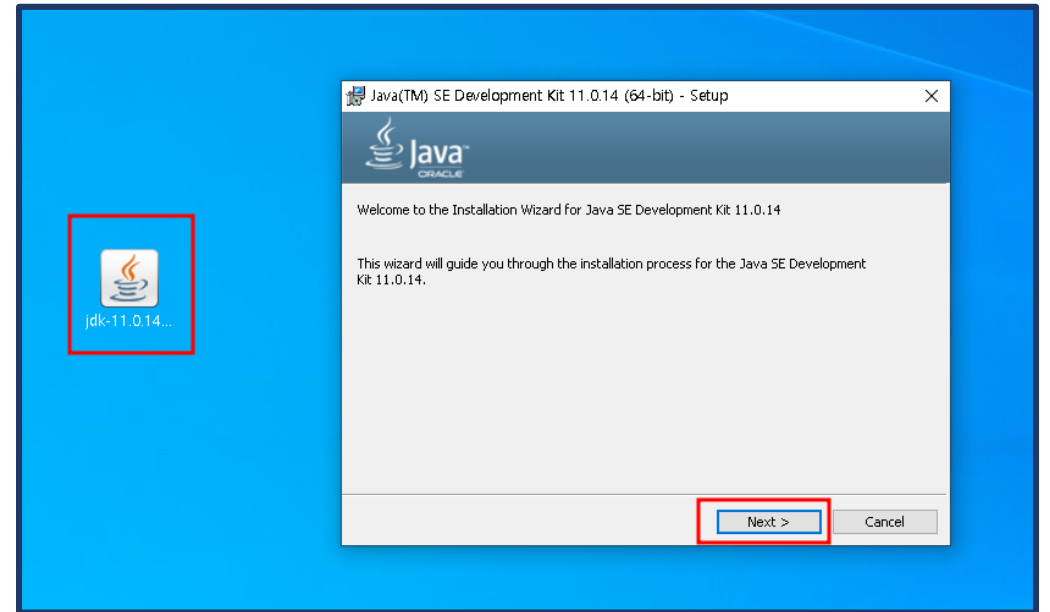
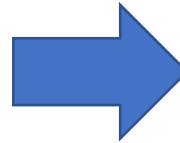
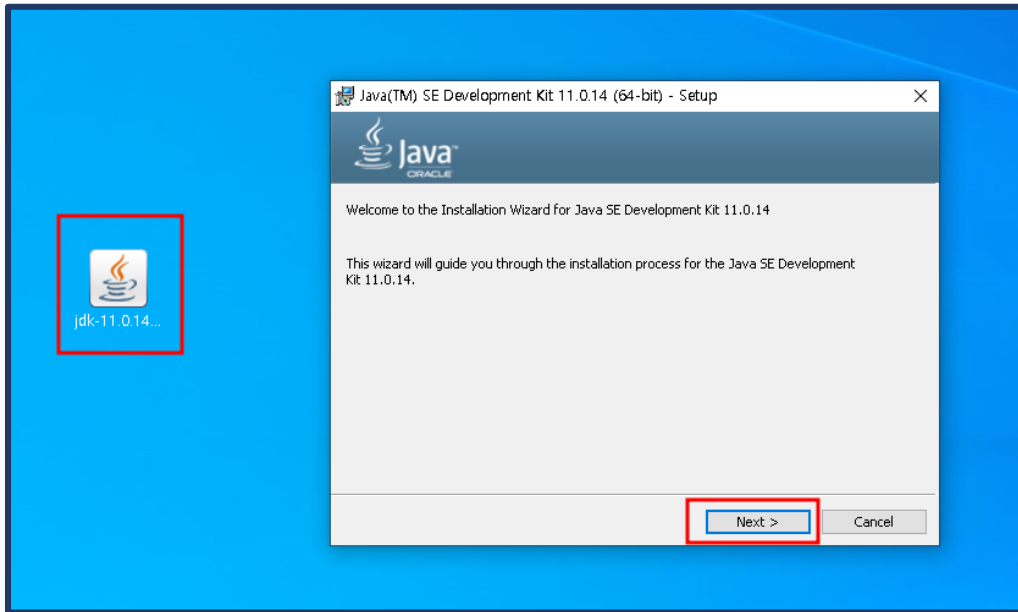
# JDK 다운 및 설치

오라클 계정 사용자와 비밀번호를 입력해서 로그인 후 다운로드!!  
(만약 계정이 없다면 계정을 만들어야 한다!)

A screenshot of the Oracle account login page. The page has a white background with a dark blue border. At the top, it says "오라클 계정 로그인" (Oracle Account Login). Below this, there are two input fields: "사용자 이름" (Username) and "암호" (Password). Each field has a small circular icon with an 'i' to its right. Below the password field is a green button labeled "로그인" (Login). At the bottom, there is a link that says "도움이 필요하십니까?" (Need help?).

# JDK 다운 및 설치

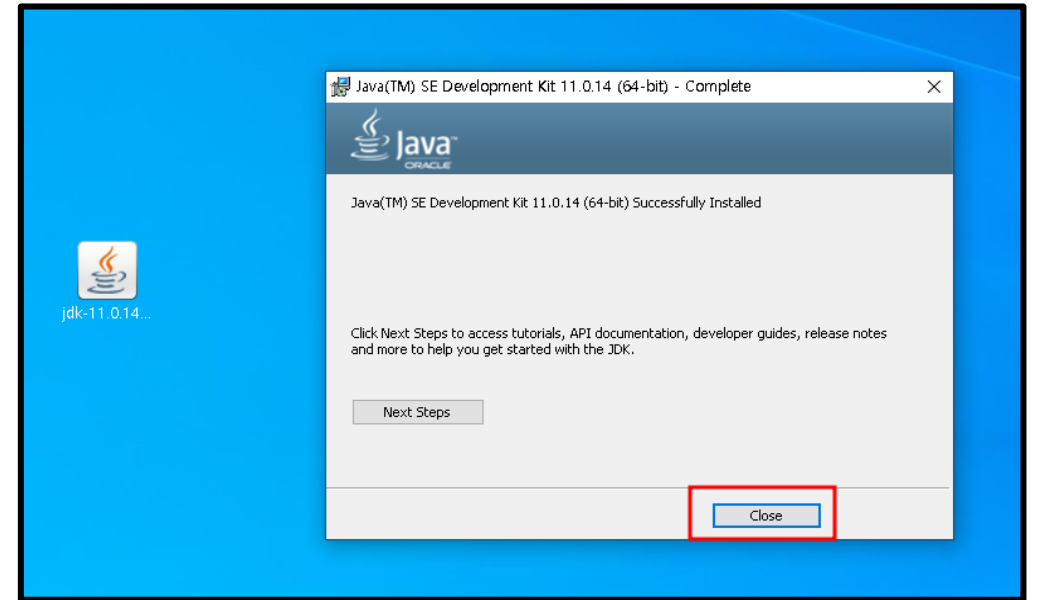
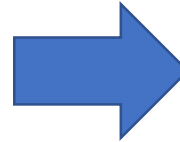
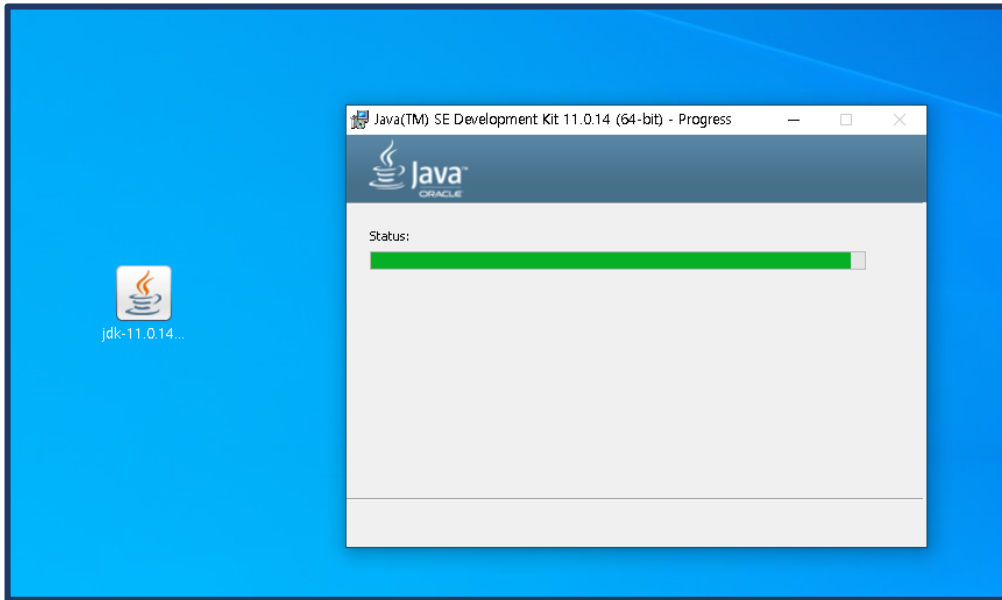
다운로드 받은 후 설치를 진행해보자.





# JDK 다운 및 설치

설치가 완료되었으면 Close 클릭!!





# 환경변수란

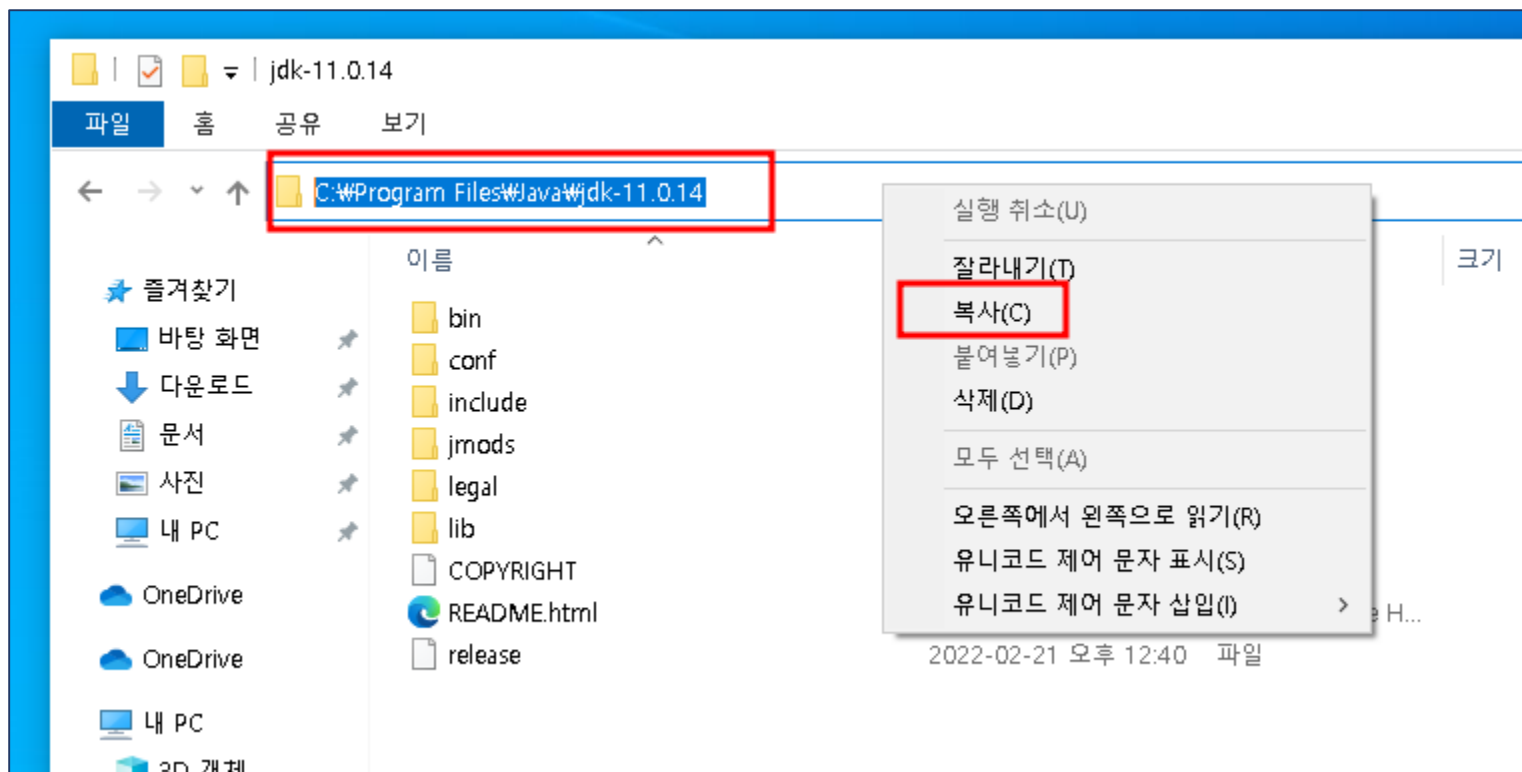
환경 변수란 실행 파일이 있는 디렉토리 경로를 지정함으로써 어느 위치에서든지 사용할 수 있도록 하는 것이다.

JDK가 설치된 폴더를 일반적으로 JAVA\_HOME이라고 한다.

설치된 JDK의 위치를 찾을 때 JAVA\_HOME 환경변수를 이용하기 때문에 JAVA\_HOME 환경변수를 만들고, JDK 설치폴더를 등록하는 것이 좋다.

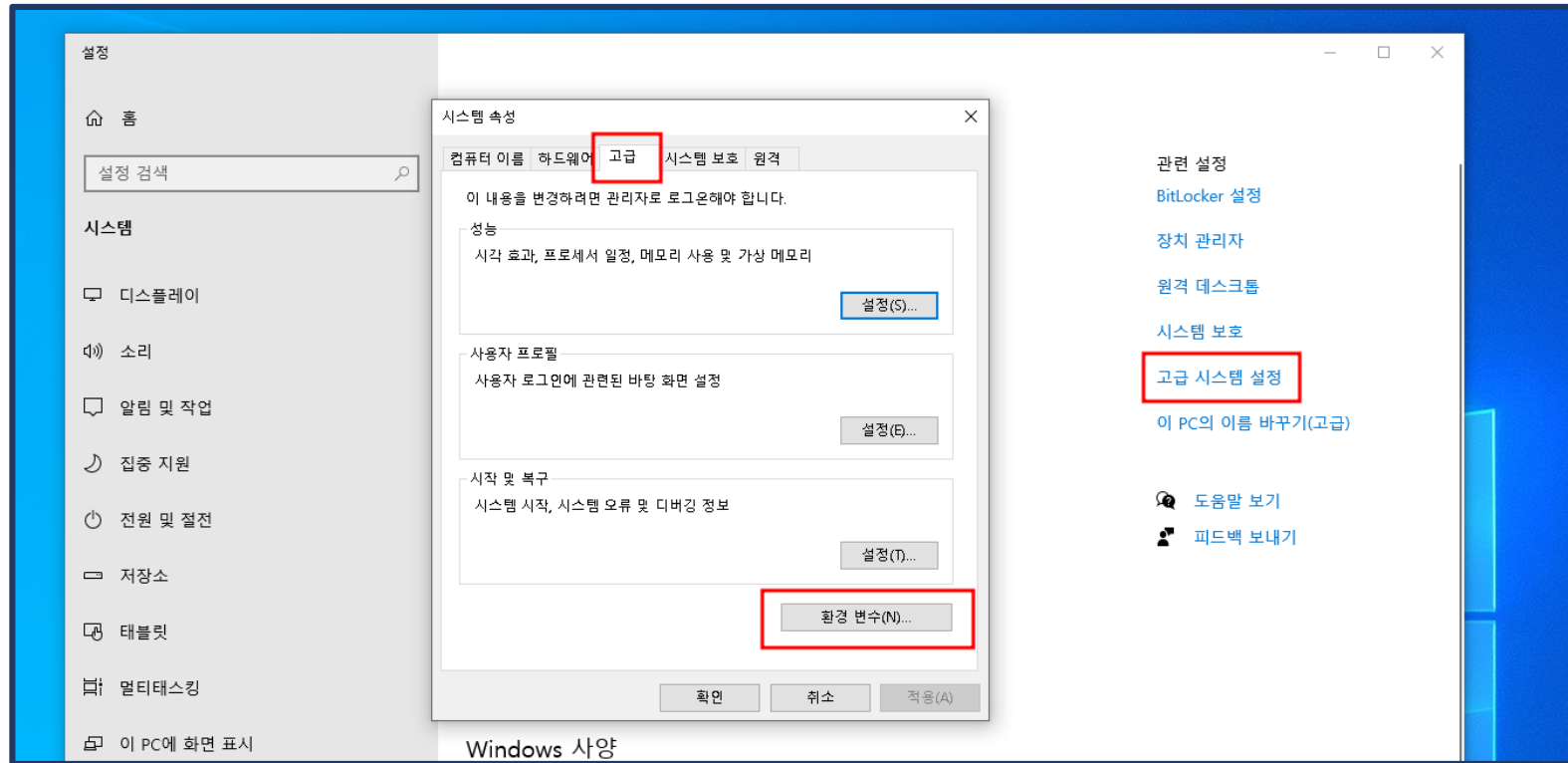
# 환경변수 설정

C: > Program Files > Java > jdk 폴더까지 경로를 복사하자!!



# 환경변수 설정

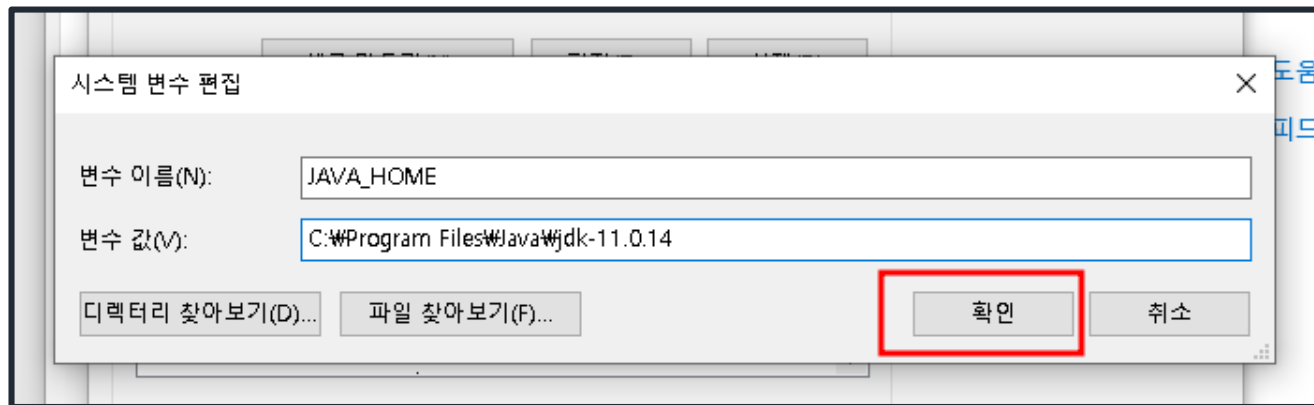
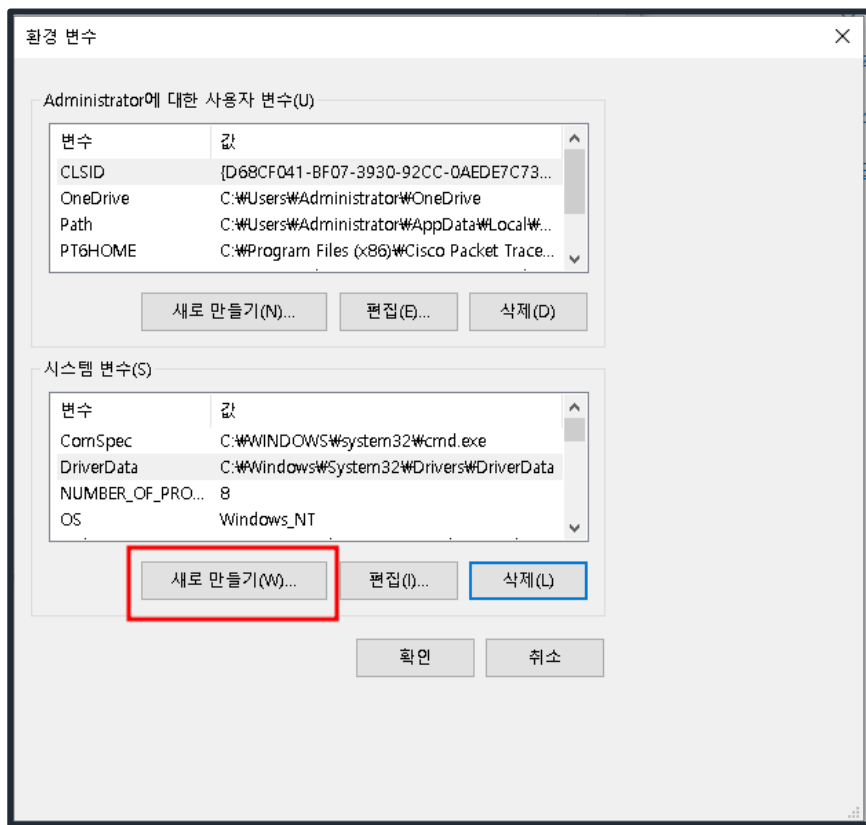
시스템 > 고급 시스템설정 > 시스템속성의 고급 클릭 후 환경변수 클릭!!



# 환경변수 설정

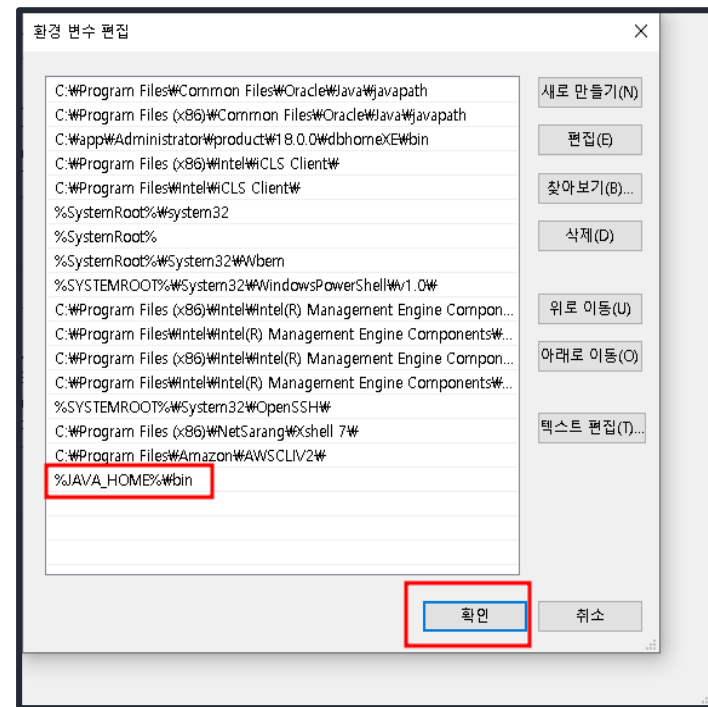
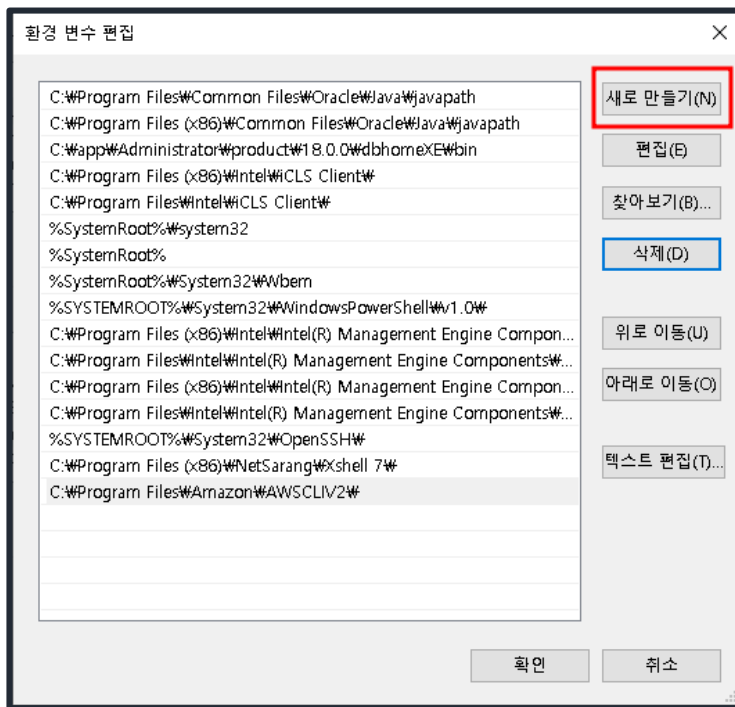
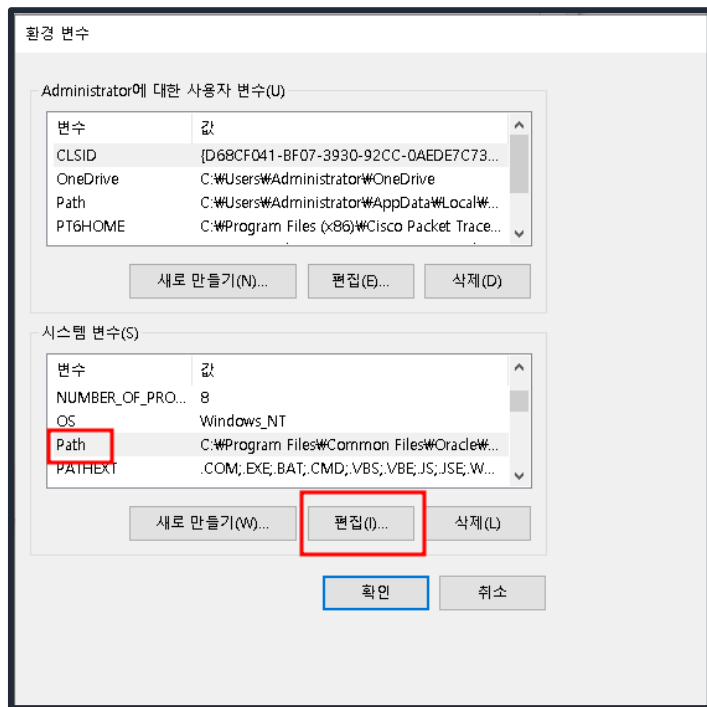
시스템 변수에서 새로만들기 클릭!!

변수 이름은 JAVA\_HOME 으로 하고 변수 값은 복사한 경로 붙여넣기!!



# 환경변수 설정

시스템변수에 Path 편집 클릭! > 새로만들기에서 %JAVA\_HOME%\bin 입력!!



# 환경변수 설정

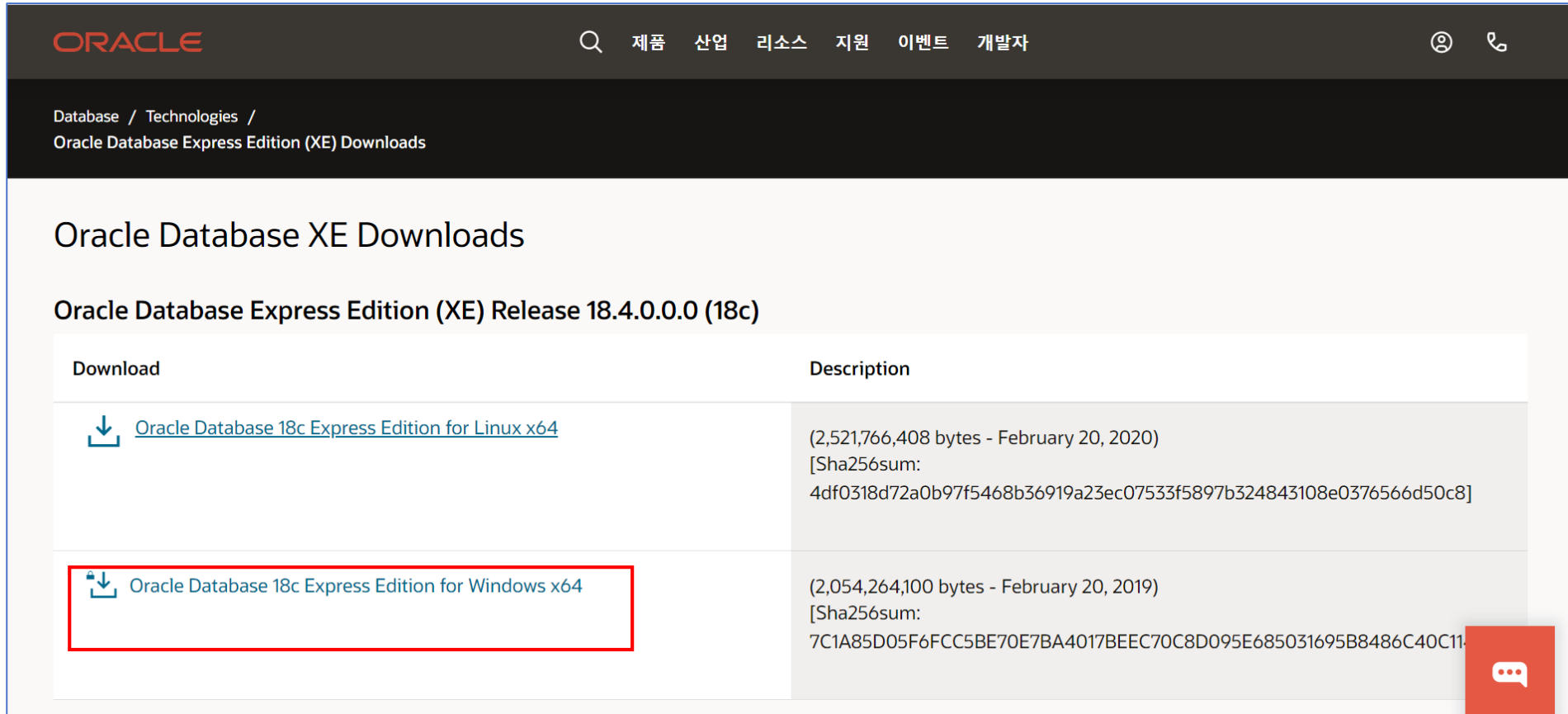
명령프롬프트 에서 `javac -version` 입력 후 엔터!!  
(버전이 나오면 환경변수 설정 완료!!!)

```
관리자: C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19044.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Administrator>javac -version
javac 11.0.14

C:\Users\Administrator>_
```

# 오라클 사이트 접속



The screenshot shows the Oracle website's 'Oracle Database XE Downloads' page. The header includes the Oracle logo and navigation links. The breadcrumb trail is 'Database / Technologies / Oracle Database Express Edition (XE) Downloads'. The main heading is 'Oracle Database XE Downloads'. Below it, the specific release is 'Oracle Database Express Edition (XE) Release 18.4.0.0.0 (18c)'. A table lists two download options. The first is for Linux x64 (2,521,766,408 bytes, February 20, 2020). The second is for Windows x64 (2,054,264,100 bytes, February 20, 2019), which is highlighted with a red rectangle. A red chat bubble icon is in the bottom right corner of the screenshot.

Download	Description
<a href="#">Oracle Database 18c Express Edition for Linux x64</a>	(2,521,766,408 bytes - February 20, 2020) [Sha256sum: 4df0318d72a0b97f5468b36919a23ec07533f5897b324843108e0376566d50c8]
<a href="#">Oracle Database 18c Express Edition for Windows x64</a>	(2,054,264,100 bytes - February 20, 2019) [Sha256sum: 7C1A85D05F6FCC5BE70E7BA4017BEEC70C8D095E685031695B8486C40C11]

<https://www.oracle.com/database/technologies/xe-downloads.html>





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×

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*You will be redirected to the login screen in order to download the file.*

Download OracleXE184\_Win64.zip

×

You must accept the [Oracle License Agreement](#) to download this software.

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☒ I reviewed and accept the Oracle License Agreement  
Required

*You will be redirected to the login screen in order to download the file.*

Download OracleXE184\_Win64.zip

# 오라클 계정 로그인

## 오라클 계정 로그인

사용자 이름

i

암호

i

로그인

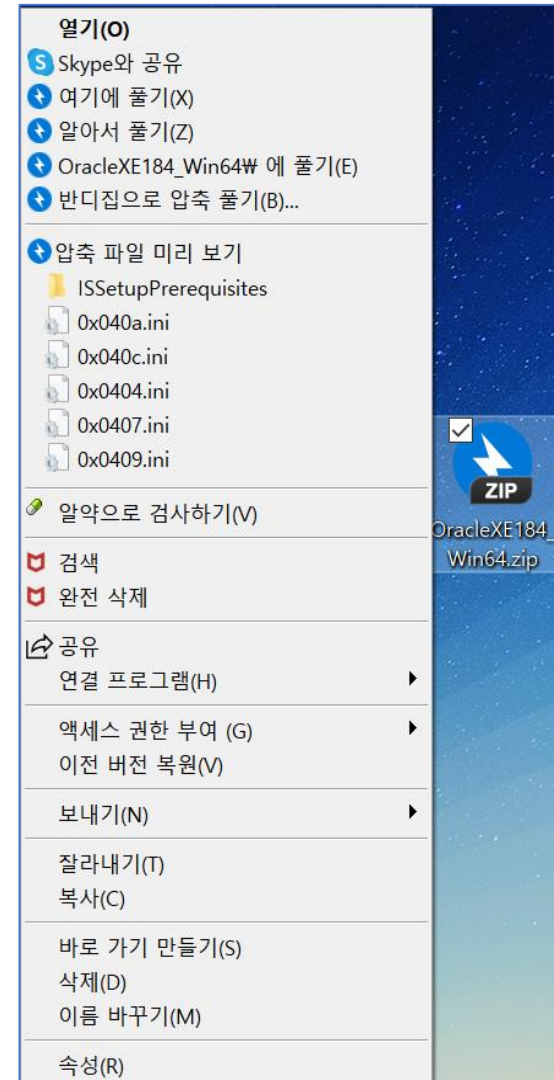
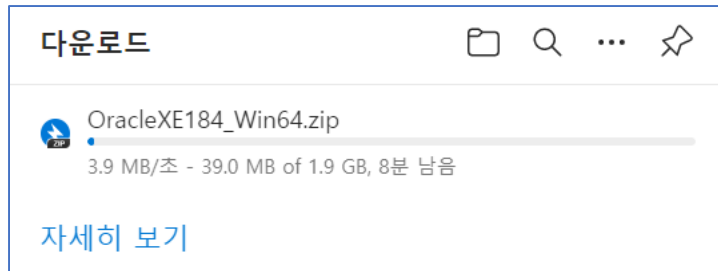
도움이 필요하십니까?

오라클 계정이 없습니까?

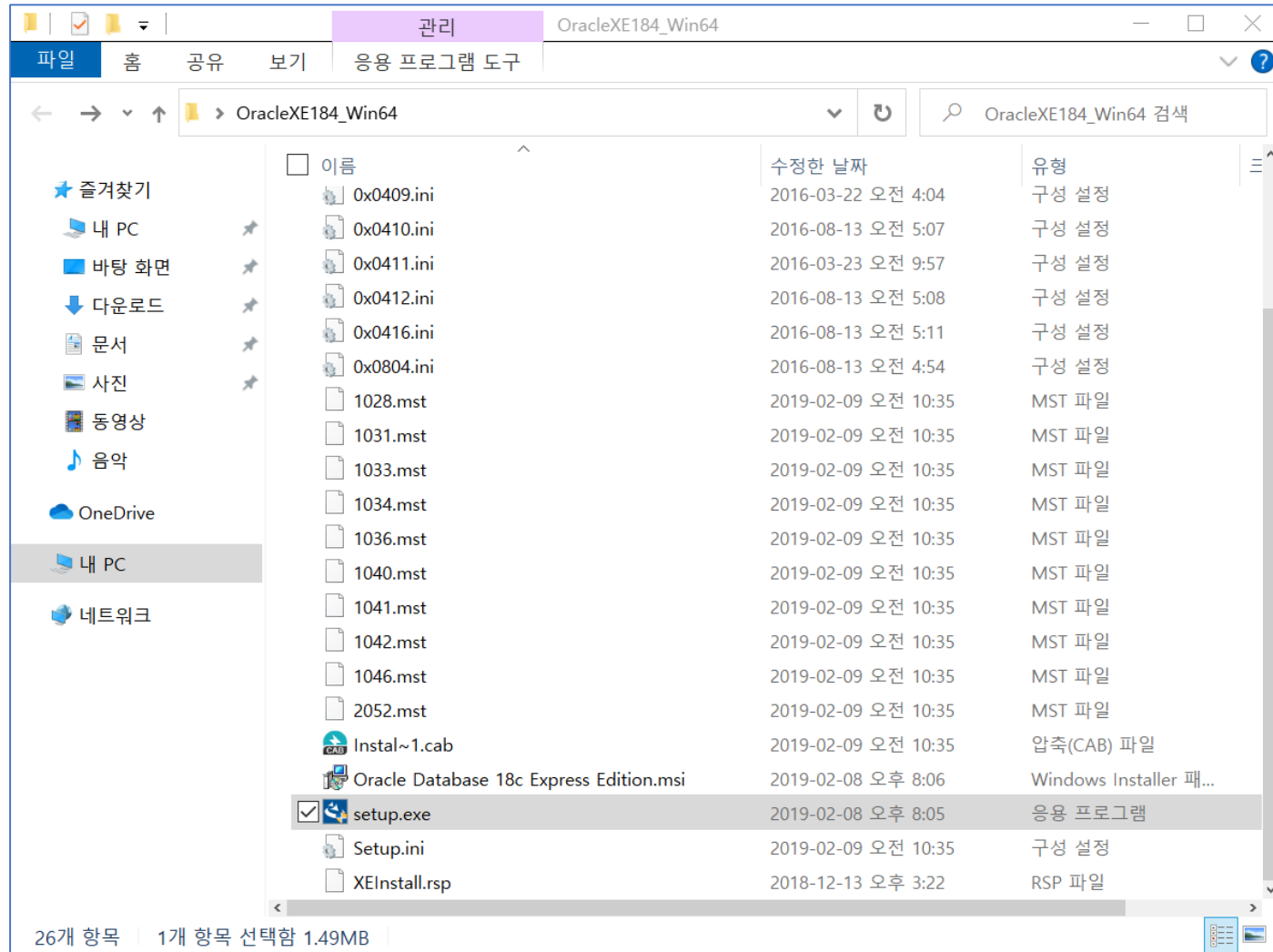
계정 만들기

© Oracle | [이용 약관](#) | [개인정보 보호정책](#)

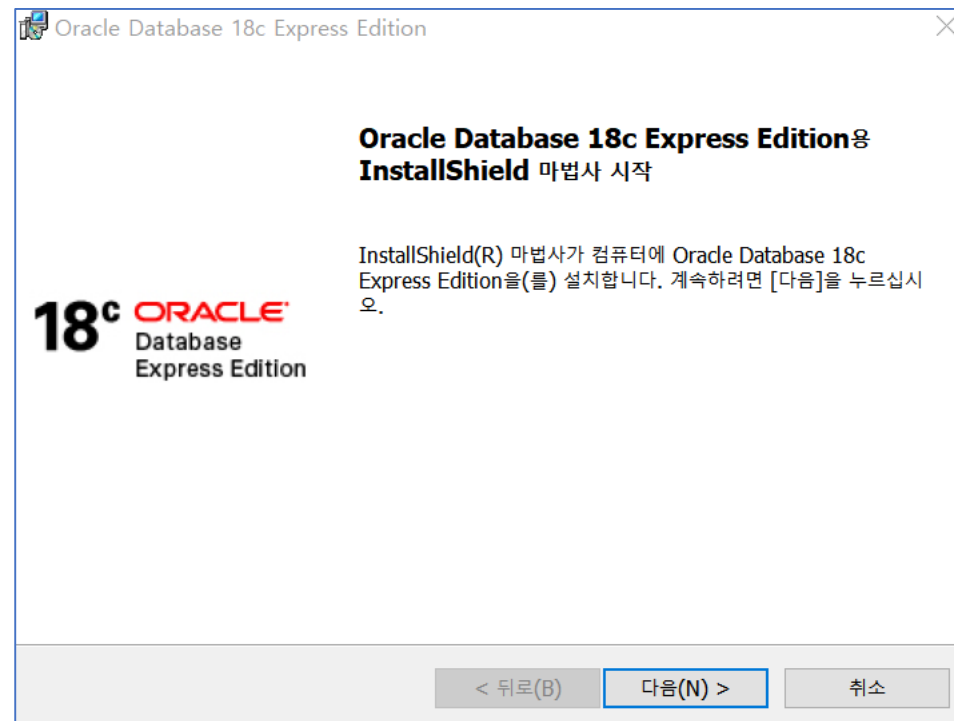
# 다운로드 파일 압축풀기



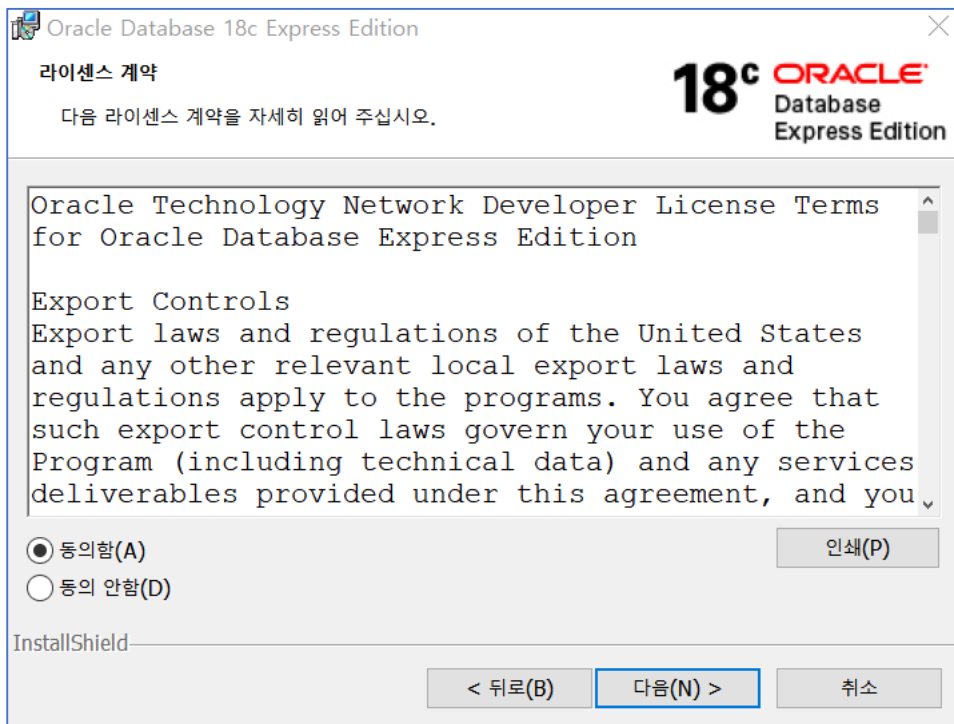
# setup.exe 파일 열기



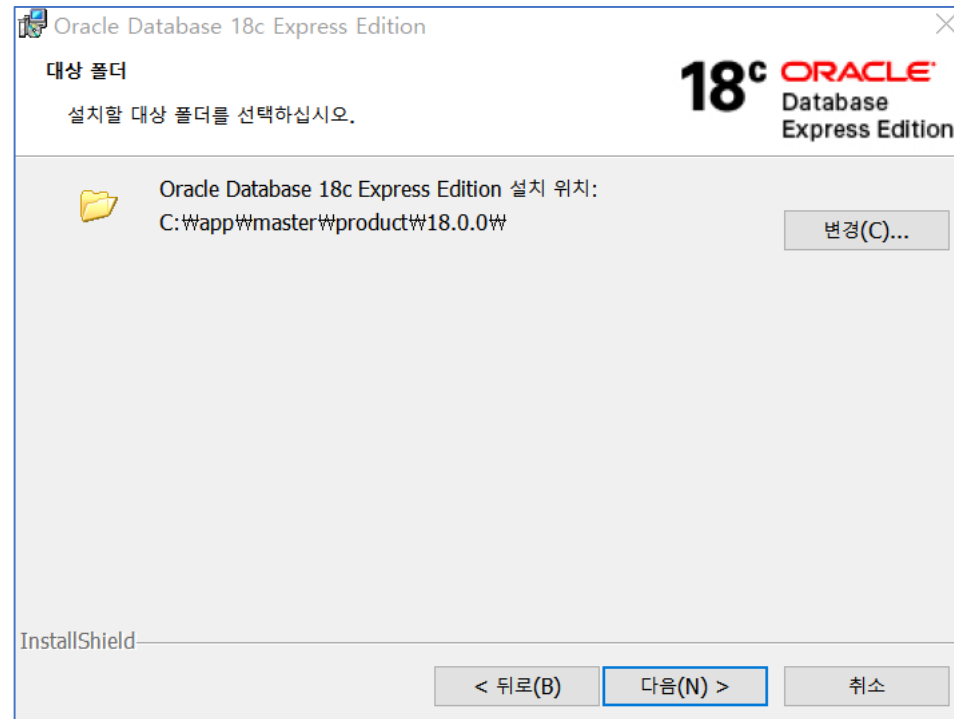
# 오라클 데이터베이스 설치



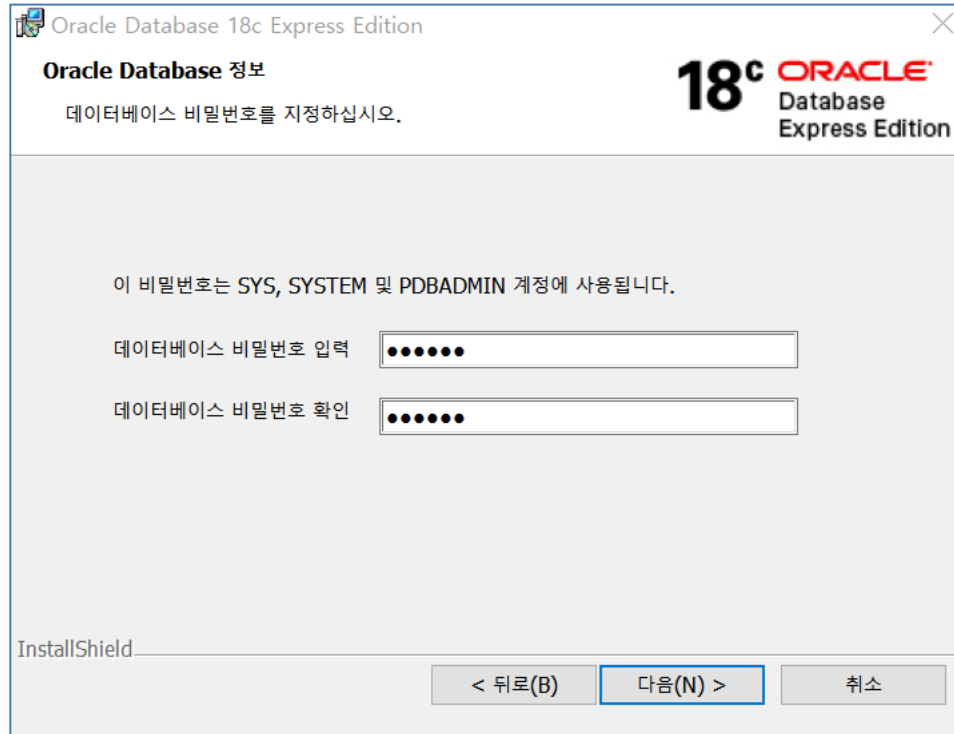
# 오라클 데이터베이스 설치



# 오라클 데이터베이스 설치



# 오라클 데이터베이스 설치



Oracle Database 18c Express Edition

**Oracle Database 정보**  
데이터베이스 비밀번호를 지정하십시오.

**18<sup>c</sup> ORACLE<sup>®</sup>**  
Database  
Express Edition

이 비밀번호는 SYS, SYSTEM 및 PDBADMIN 계정에 사용됩니다.

데이터베이스 비밀번호 입력

데이터베이스 비밀번호 확인

InstallShield

< 뒤로(B)    다음(N) >    취소

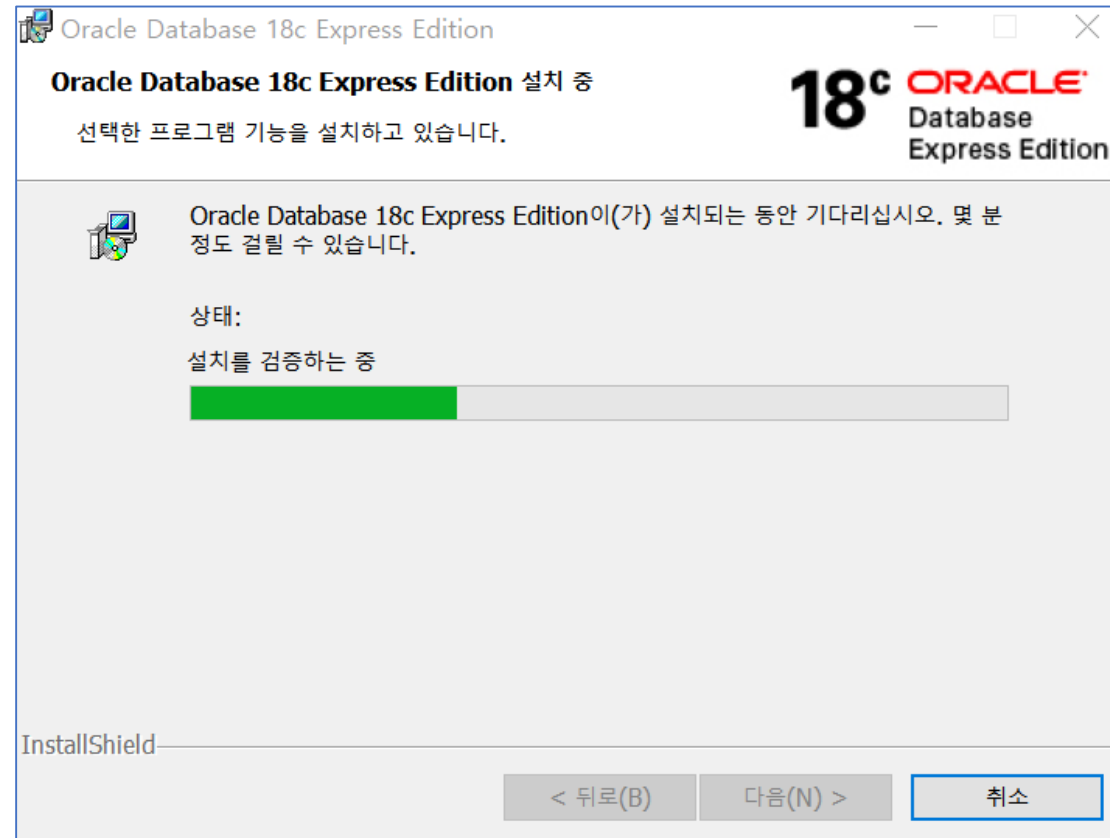
**반드시 비밀번호 적어 놓을 것!!!**



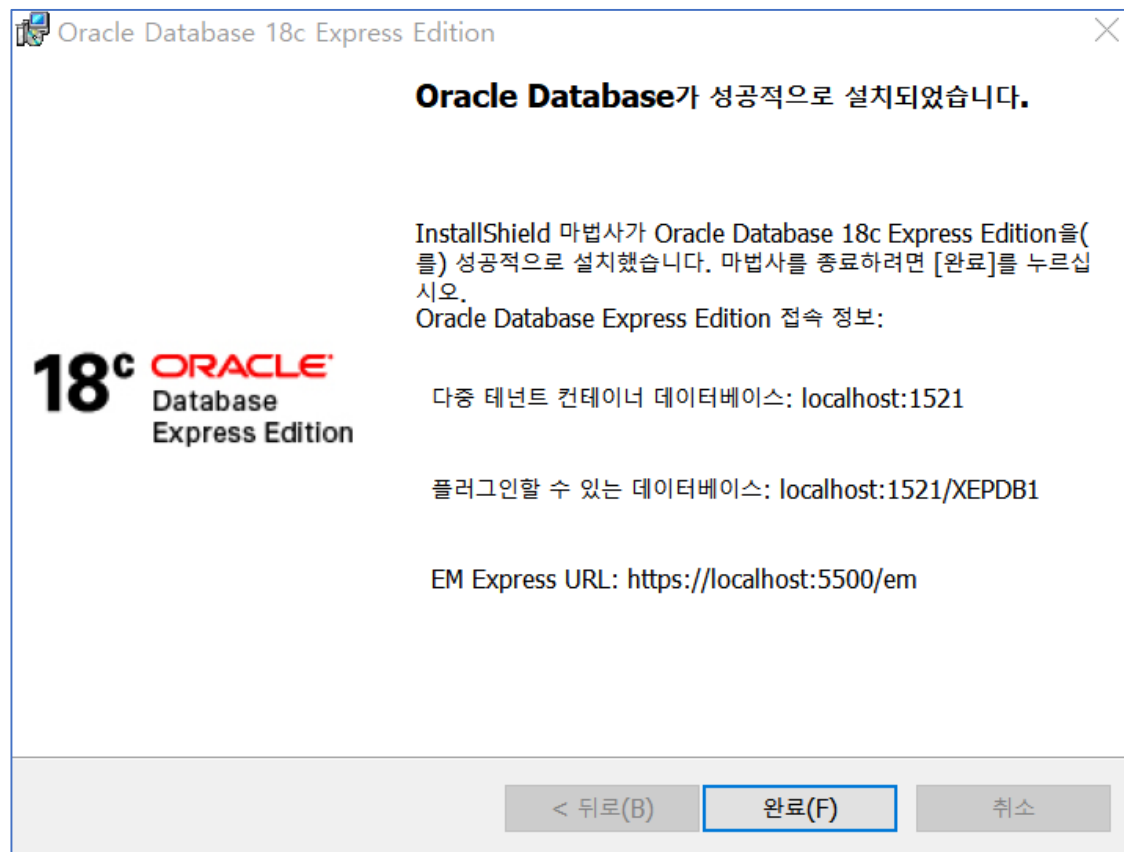
# 오라클 데이터베이스 설치



# 오라클 데이터베이스 설치



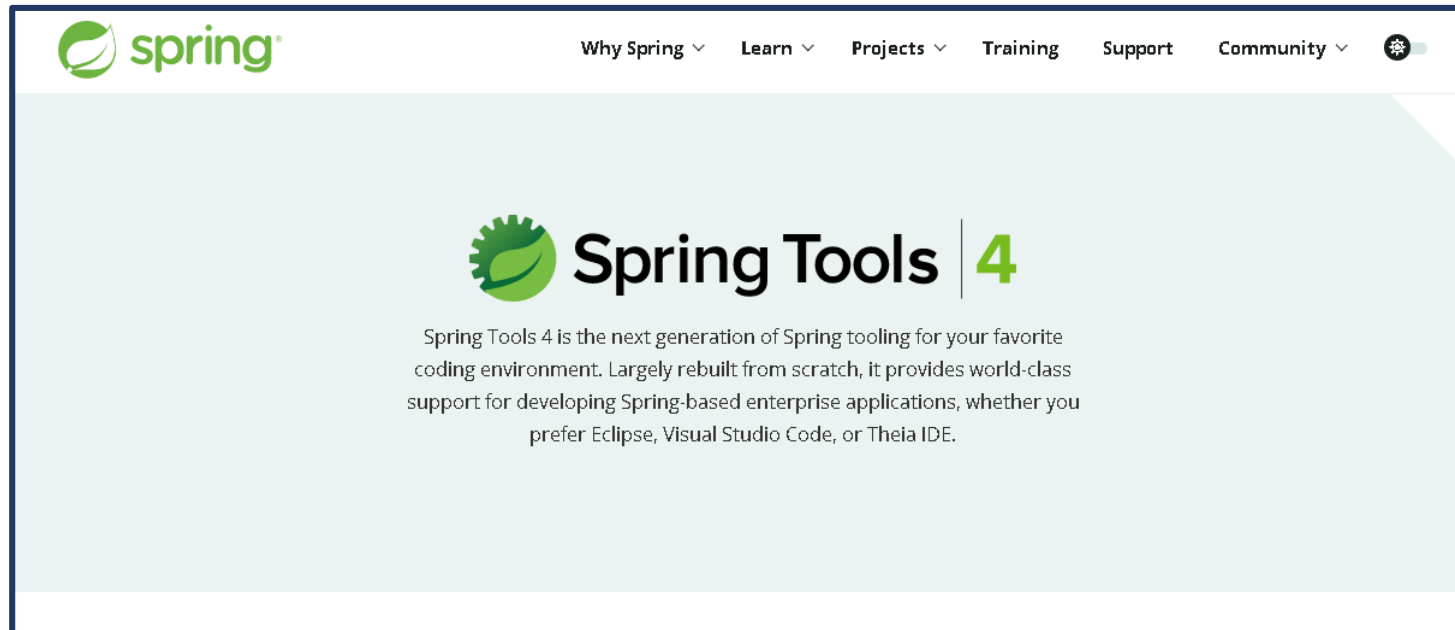
# 오라클 데이터베이스 설치



# STS(Spring Tool Suite)란?

STS(Spring Tool Suite)란 이클립스 기반 스프링 어플리케이션을 개발 하기 위한 개발 환경을 의미한다. Spring 개발에 최적화 되도록 만든 IDE (Integrated Development Environment) 이다. STS를 다운받기 위해 사이트로 접속하자.

<https://spring.io/tools>



# STS 다운로드 및 설치

사이트로 가면 Spring Tools 4 for Eclipse 가 보인다. STS4는 레거시 프로젝트가 없기 때문에 레거시 프로젝트를 만들 수 있는 STS3 을 다운받도록 한다.

## Spring Tools 4 for Eclipse

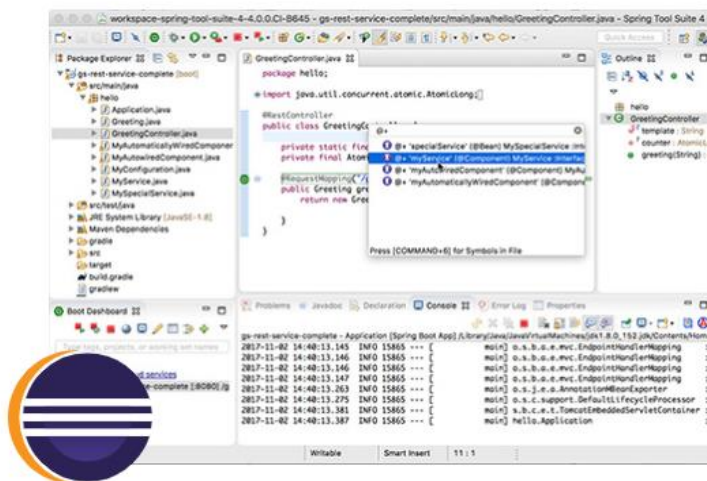
The all-new Spring Tool Suite 4.  
Free. Open source.

4.13.1 - LINUX X86\_64

4.13.1 - MACOS X86\_64

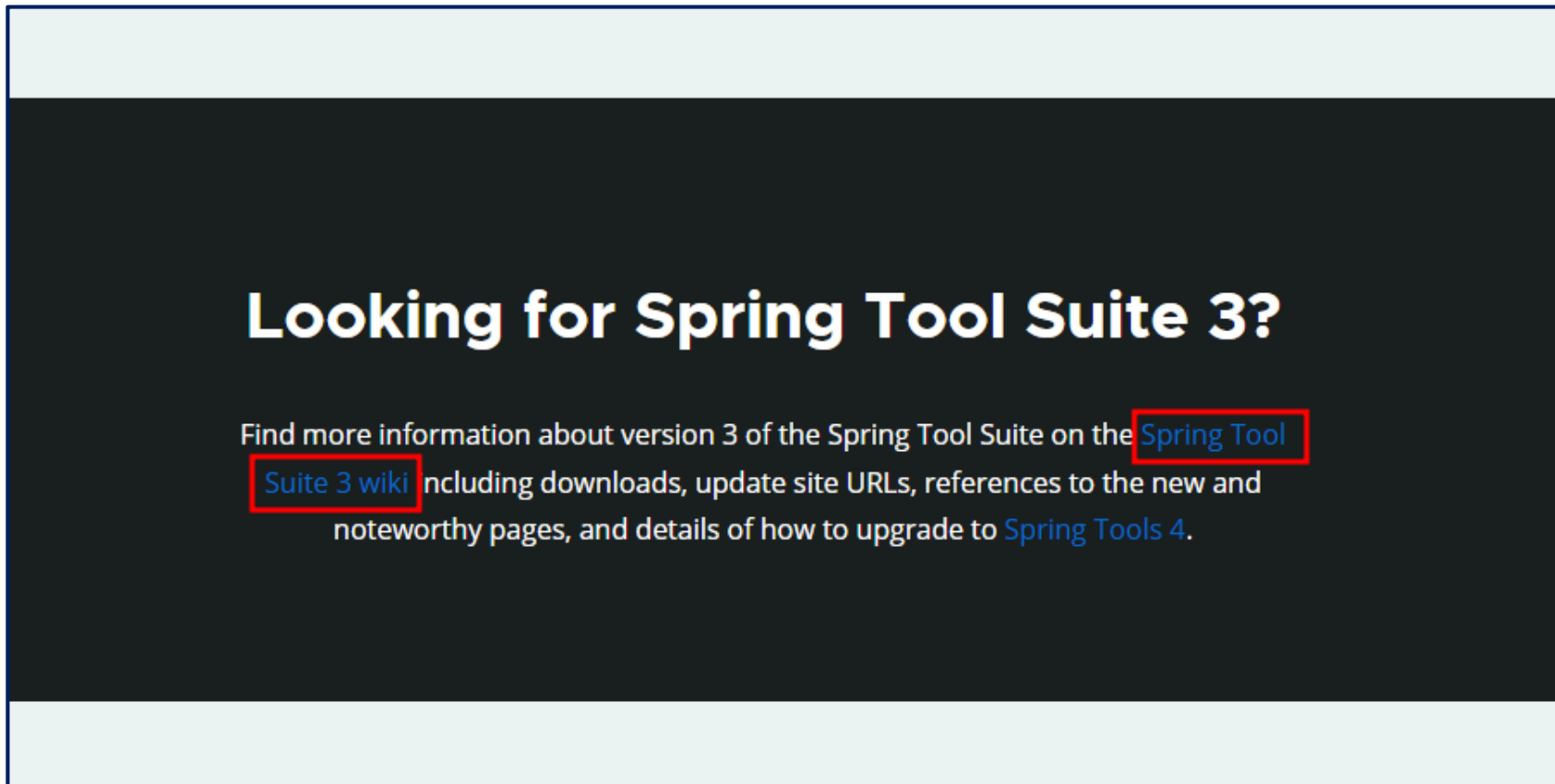
4.13.1 - MACOS ARM\_64

4.13.1 - WINDOWS X86\_64



# STS 다운로드 및 설치

Spring Tool Suite 3 wiki 를 클릭하여 STS3을 다운 받는다.



# STS 다운로드 및 설치

운영체제에 맞게끔 다운 받는다.

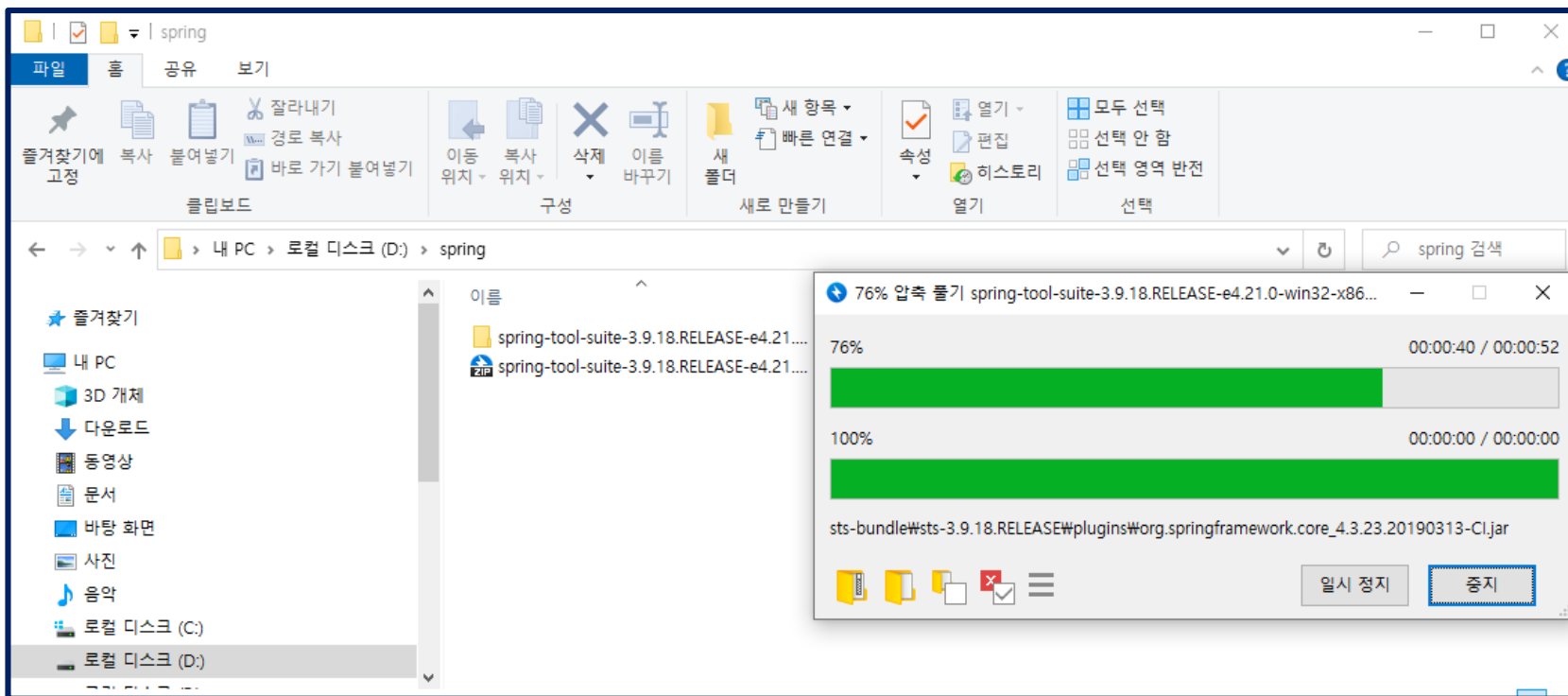
## Spring Tool Suite 3.9.18

full distribution on Eclipse 4.21

- [https://download.springsource.com/release/STS/3.9.18.RELEASE/dist/e4.21/spring-tool-suite-3.9.18.RELEASE-e4.21.0-win32-x86\\_64.zip](https://download.springsource.com/release/STS/3.9.18.RELEASE/dist/e4.21/spring-tool-suite-3.9.18.RELEASE-e4.21.0-win32-x86_64.zip)
- [https://download.springsource.com/release/STS/3.9.18.RELEASE/dist/e4.21/spring-tool-suite-3.9.18.RELEASE-e4.21.0-macosx-cocoa-x86\\_64.dmg](https://download.springsource.com/release/STS/3.9.18.RELEASE/dist/e4.21/spring-tool-suite-3.9.18.RELEASE-e4.21.0-macosx-cocoa-x86_64.dmg)
- [https://download.springsource.com/release/STS/3.9.18.RELEASE/dist/e4.21/spring-tool-suite-3.9.18.RELEASE-e4.21.0-linux-gtk-x86\\_64.tar.gz](https://download.springsource.com/release/STS/3.9.18.RELEASE/dist/e4.21/spring-tool-suite-3.9.18.RELEASE-e4.21.0-linux-gtk-x86_64.tar.gz)

# STS 다운로드 및 설치

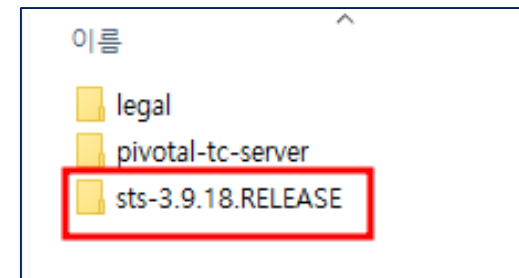
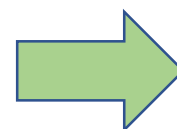
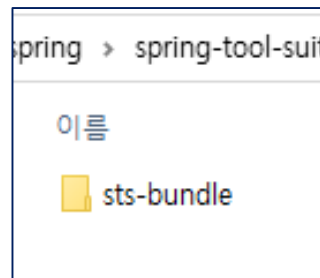
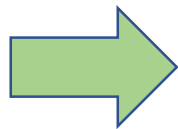
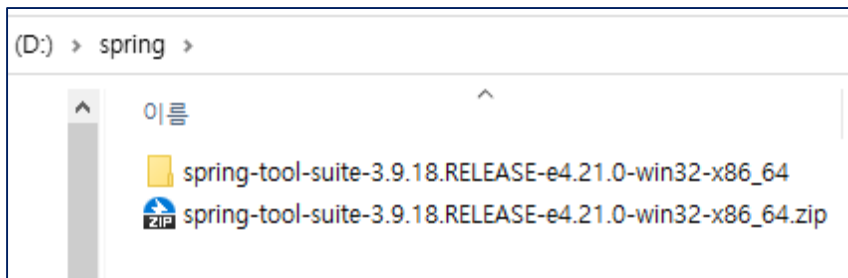
다운받은 압축파일은 압축을 풀어준다.





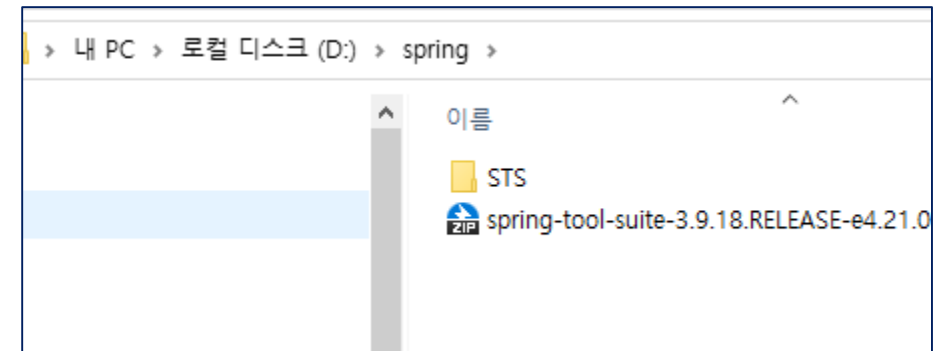
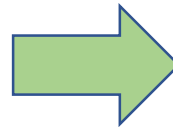
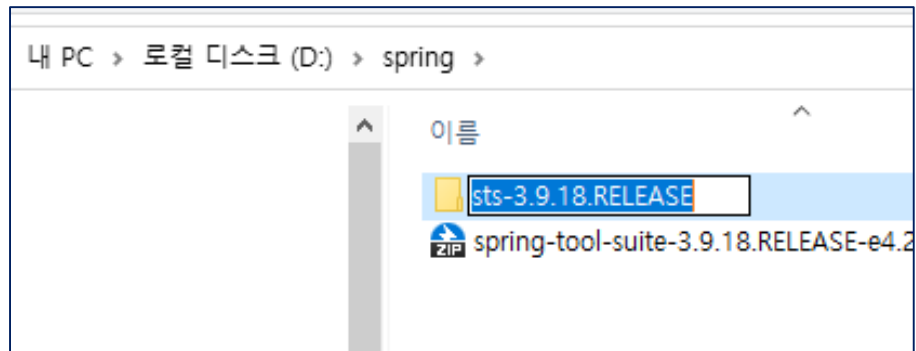
# STS 다운로드 및 설치

압축 킷 폴더로 들어가면 sts-bundle 폴더가 있고 sts-bundle 폴더로 들어가면 sts-버전정보.RELEASE 폴더가 있다. 이 폴더를 본인이 관리하는 폴더에 넣고 나머지 폴더는 삭제하도록 한다.



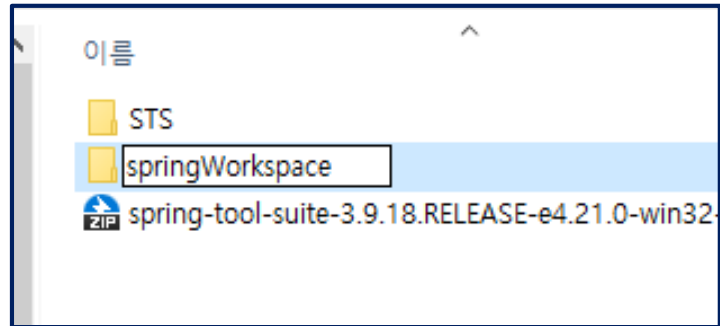
# STS 다운로드 및 설치

sts-버전정보.RELEASE 폴더 이름을 간단하게 STS로 바꾸어도 좋다.



# STS 다운로드 및 설치

스프링 workspace 폴더를 하나 만들어서 프로젝트들을 관리하도록 한다.

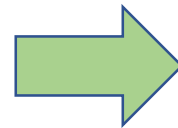


# STS ini 파일 수정

STS 에서 사용할 JDK와 인코딩 방식을 UTF-8로 수정하자

```
STS.ini - Windows 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

-startup
plugins/org.eclipse.equinox.launcher_1.6.300.v20210813-1054.jar
--launcher.library
plugins/org.eclipse.equinox.launcher.win32.win32.x86_64_1.2.300.
-product
org.springframework.sts.ide
--launcher.defaultAction
openFile
-vmargs
-Dosgi.requiredJavaVersion=11
-Dosgi.dataAreaRequiresExplicitInit=true
-Xms256m
-Xmx2048m
--add-modules=ALL-SYSTEM
-Dosgi.module.lock.timeout=10
```



```
*STS.ini - Windows 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

-startup
plugins/org.eclipse.equinox.launcher_1.6.300.v20210813-1054.jar
--launcher.library
plugins/org.eclipse.equinox.launcher.win32.win32.x86_64_1.2.300.v20210828-08
-product
org.springframework.sts.ide
--launcher.defaultAction
openFile

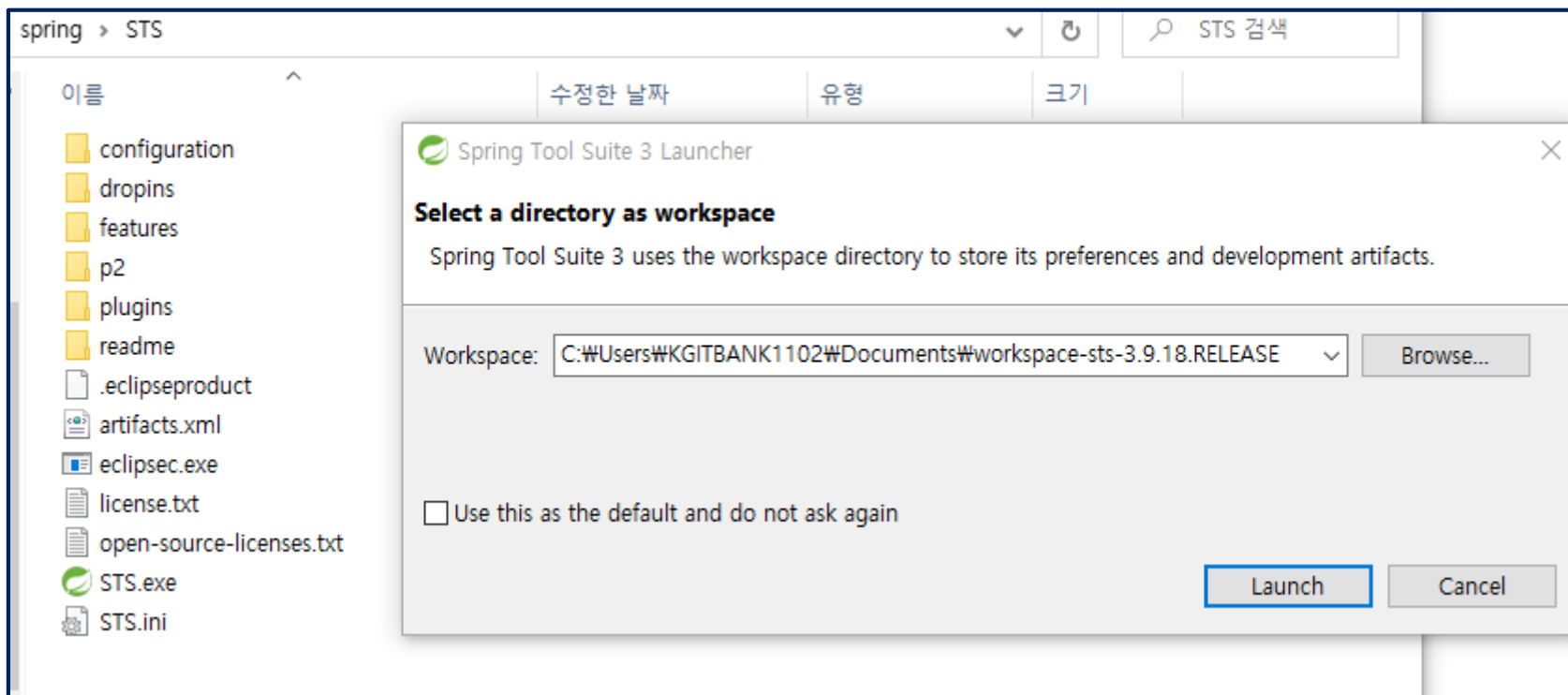
-vm
C:\Program Files\Java\jdk-11.0.17\bin

-vmargs
-Dosgi.requiredJavaVersion=11
-Dosgi.dataAreaRequiresExplicitInit=true
-Xms256m
-Xmx2048m
--add-modules=ALL-SYSTEM
-Dosgi.module.lock.timeout=10

-Dfile.Encoding=UTF-8
```

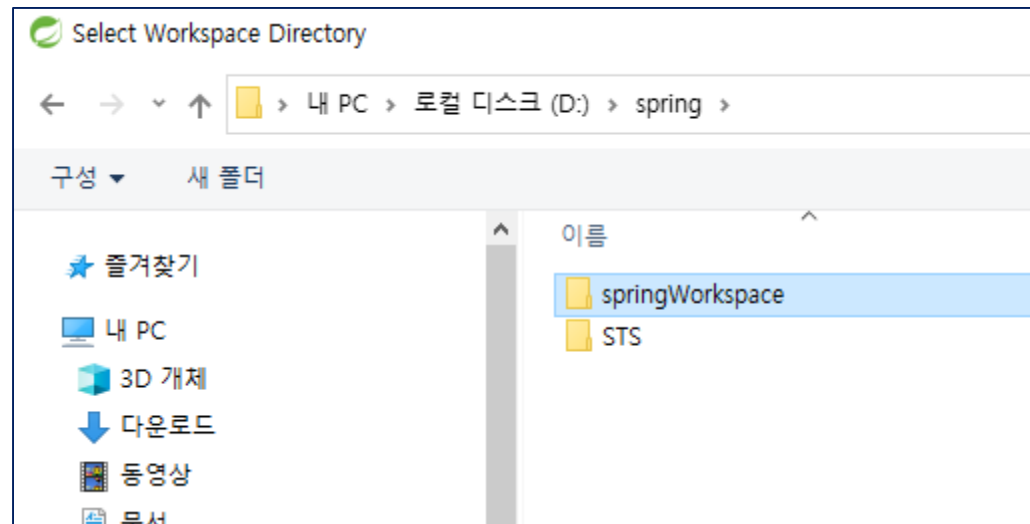
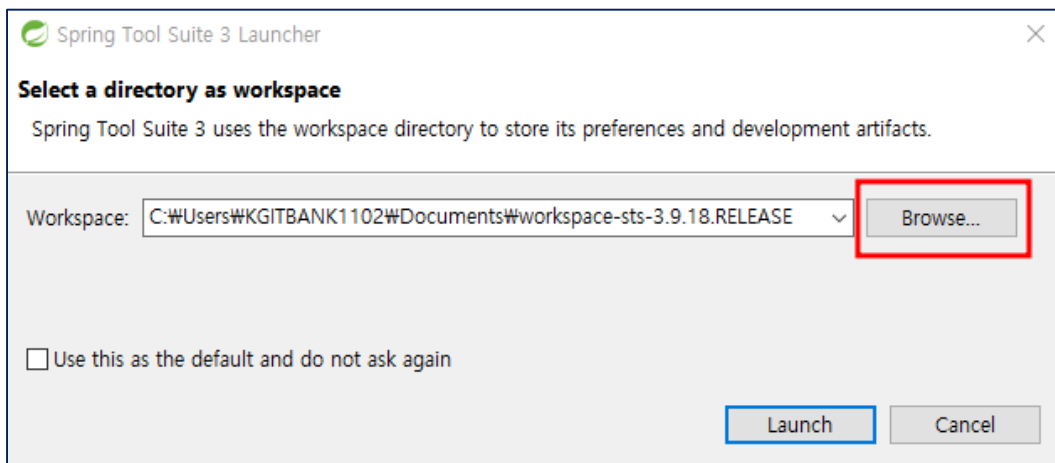
# STS 다운로드 및 설치

STS.exe 파일을 실행시키면 Workspace를 지정하라는 런처가 나온다.



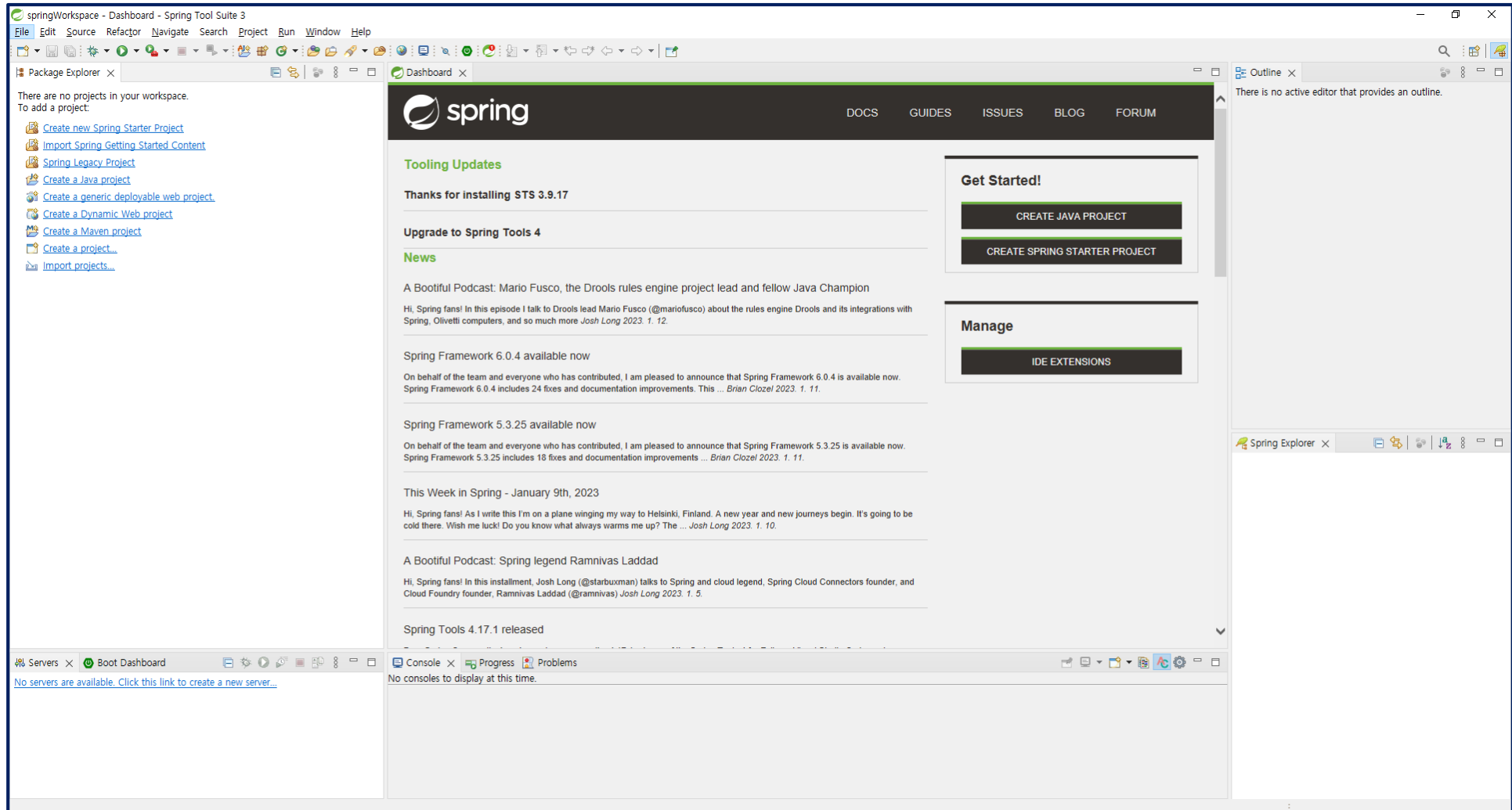
# STS 다운로드 및 설치

Browse 클릭하여 자신의 폴더안에 있는 WorkSpace 폴더를 지정한후 실행한다.



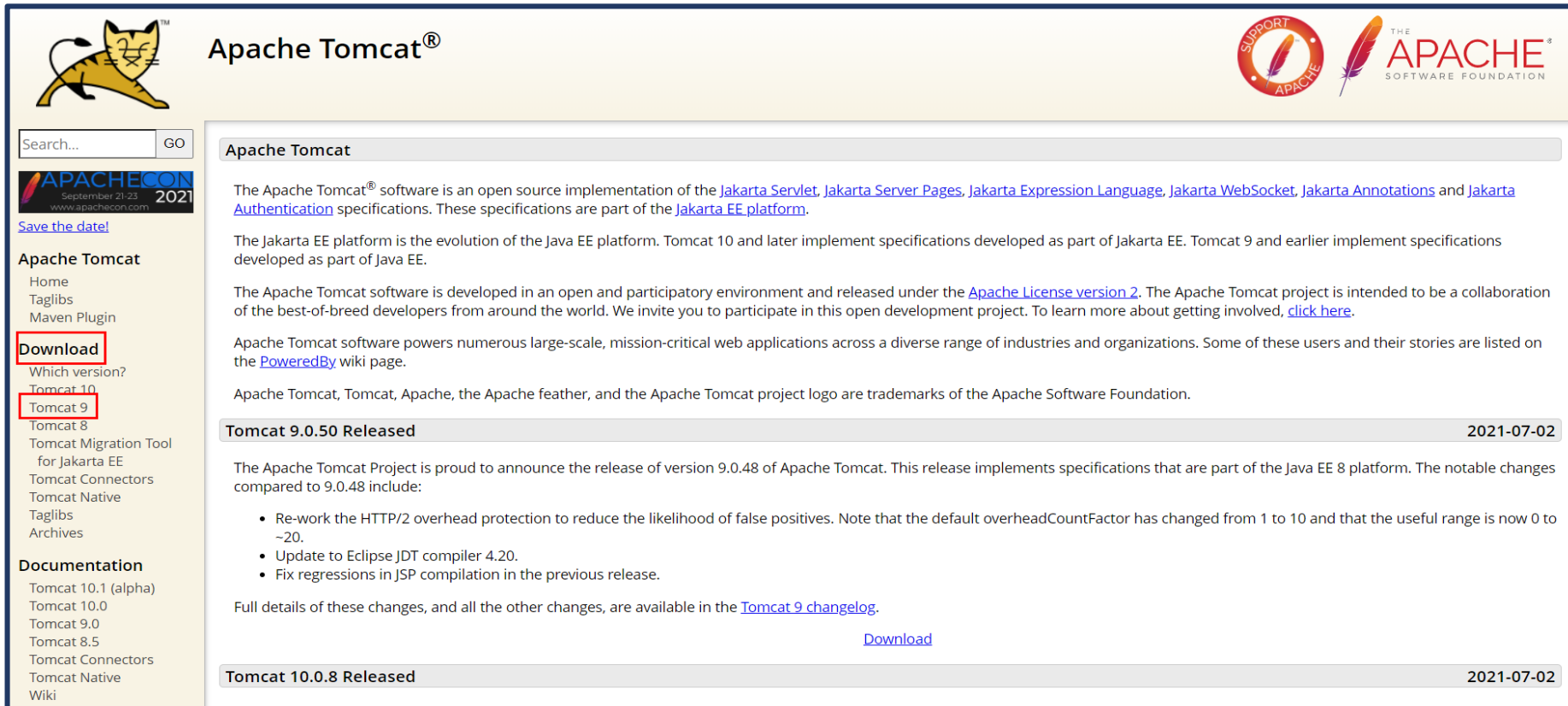


# STS 다운로드 및 설치



# 아파치 톰캣(Apache Tomcat)

웹 프로그래밍을 하려면 서버가 필요하다. (<https://tomcat.apache.org>)  
사이트로 들어간 후 Download > Tomcat9 클릭!



The screenshot shows the Apache Tomcat website. The top navigation bar includes the Apache Tomcat logo, a search bar, and the Apache Software Foundation logo. The main content area is titled "Apache Tomcat" and contains introductory text about the software, its specifications, and its development environment. A sidebar on the left contains a "Download" link, which is highlighted with a red box. Below the "Download" link, there is a list of versions: "Which version?", "Tomcat 10", "Tomcat 9", "Tomcat 8", "Tomcat Migration Tool for Jakarta EE", "Tomcat Connectors", "Tomcat Native", "Taglibs", and "Archives". The "Tomcat 9" link is also highlighted with a red box. The main content area also features a "Tomcat 9.0.50 Released" section with a date of "2021-07-02" and a "Tomcat 10.0.8 Released" section with a date of "2021-07-02".

Apache Tomcat®

Search... GO

APACHECON 2021  
September 21-23  
www.apachecon.com  
[Save the date!](#)

Apache Tomcat

- Home
- Taglibs
- Maven Plugin
- Download**
- Which version?
- Tomcat 10
- Tomcat 9**
- Tomcat 8
- Tomcat Migration Tool for Jakarta EE
- Tomcat Connectors
- Tomcat Native
- Taglibs
- Archives

Documentation

- Tomcat 10.1 (alpha)
- Tomcat 10.0
- Tomcat 9.0
- Tomcat 8.5
- Tomcat Connectors
- Tomcat Native
- Wiki

Apache Tomcat

The Apache Tomcat® software is an open source implementation of the [Jakarta Servlet](#), [Jakarta Server Pages](#), [Jakarta Expression Language](#), [Jakarta WebSocket](#), [Jakarta Annotations](#) and [Jakarta Authentication](#) specifications. These specifications are part of the [Jakarta EE platform](#).

The Jakarta EE platform is the evolution of the Java EE platform. Tomcat 10 and later implement specifications developed as part of Jakarta EE. Tomcat 9 and earlier implement specifications developed as part of Java EE.

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 9.0.50 Released** 2021-07-02

The Apache Tomcat Project is proud to announce the release of version 9.0.48 of Apache Tomcat. This release implements specifications that are part of the Java EE 8 platform. The notable changes compared to 9.0.48 include:

- Re-work the HTTP/2 overhead protection to reduce the likelihood of false positives. Note that the default overheadCountFactor has changed from 1 to 10 and that the useful range is now 0 to ~20.
- Update to Eclipse JDT compiler 4.20.
- Fix regressions in JSP compilation in the previous release.

Full details of these changes, and all the other changes, are available in the [Tomcat 9 changelog](#).

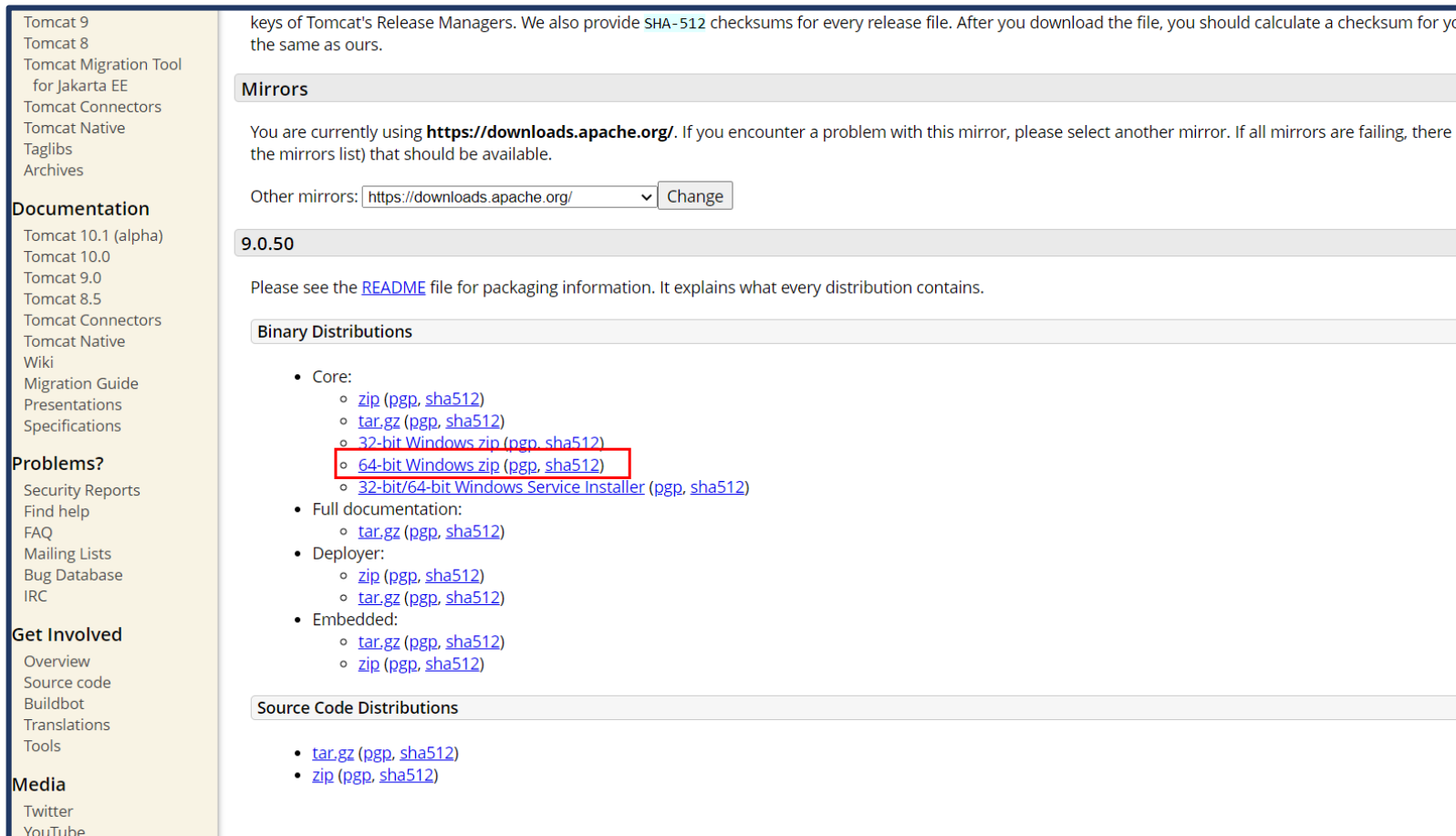
[Download](#)

**Tomcat 10.0.8 Released** 2021-07-02



# 아파치 톰캣(Apache Tomcat)

Core 에 환경에 맞는 압축파일(zip)을 다운받자!



The screenshot shows the Apache Tomcat download page. On the left is a navigation menu with links for Tomcat 9, Tomcat 8, Tomcat Migration Tool for Jakarta EE, Tomcat Connectors, Tomcat Native, Taglibs, Archives, Documentation, Problems?, Get Involved, and Media. The main content area is titled '9.0.50' and contains sections for Mirrors, Binary Distributions, and Source Code Distributions. The 'Binary Distributions' section lists various download options, with '64-bit Windows zip (pgp, sha512)' highlighted by a red box. The 'Source Code Distributions' section lists 'tar.gz (pgp, sha512)' and 'zip (pgp, sha512)'.

Tomcat 9  
Tomcat 8  
Tomcat Migration Tool for Jakarta EE  
Tomcat Connectors  
Tomcat Native  
Taglibs  
Archives

**Documentation**  
Tomcat 10.1 (alpha)  
Tomcat 10.0  
Tomcat 9.0  
Tomcat 8.5  
Tomcat Connectors  
Tomcat Native  
Wiki  
Migration Guide  
Presentations  
Specifications

**Problems?**  
Security Reports  
Find help  
FAQ  
Mailing Lists  
Bug Database  
IRC

**Get Involved**  
Overview  
Source code  
Buildbot  
Translations  
Tools

**Media**  
Twitter  
YouTube

keys of Tomcat's Release Managers. We also provide [SHA-512](#) checksums for every release file. After you download the file, you should calculate a checksum for you the same as ours.

**Mirrors**

You are currently using <https://downloads.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there the mirrors list) that should be available.

Other mirrors:

**9.0.50**

Please see the [README](#) file for packaging information. It explains what every distribution contains.

**Binary Distributions**

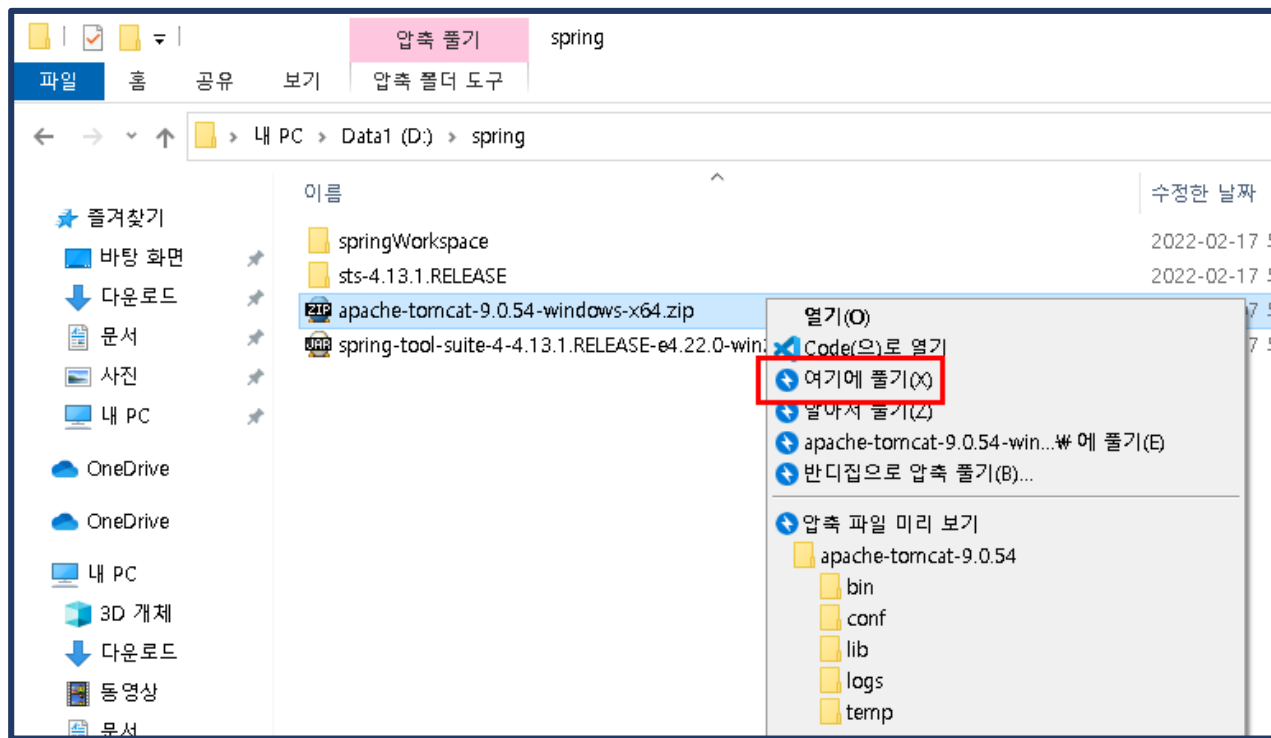
- Core:
  - [zip \(pgp, sha512\)](#)
  - [tar.gz \(pgp, sha512\)](#)
  - [32-bit Windows zip \(pgp, sha512\)](#)
  - [64-bit Windows zip \(pgp, sha512\)](#)
  - [32-bit/64-bit Windows Service Installer \(pgp, sha512\)](#)
- Full documentation:
  - [tar.gz \(pgp, sha512\)](#)
- Deployer:
  - [zip \(pgp, sha512\)](#)
  - [tar.gz \(pgp, sha512\)](#)
- Embedded:
  - [tar.gz \(pgp, sha512\)](#)
  - [zip \(pgp, sha512\)](#)

**Source Code Distributions**

- [tar.gz \(pgp, sha512\)](#)
- [zip \(pgp, sha512\)](#)

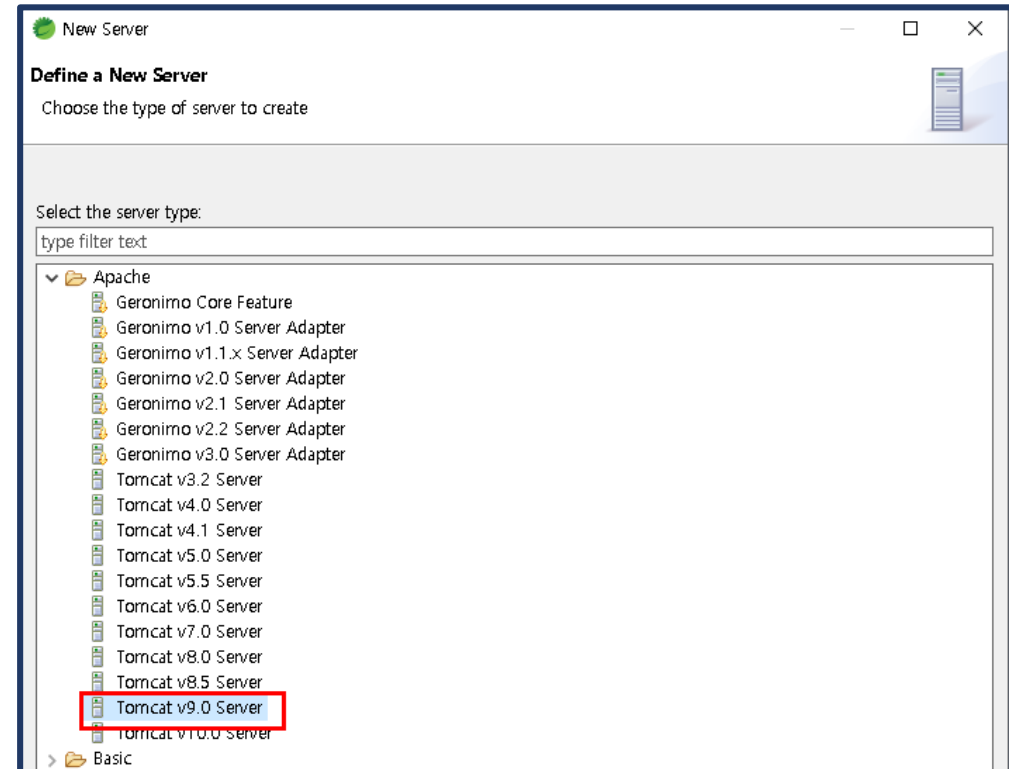
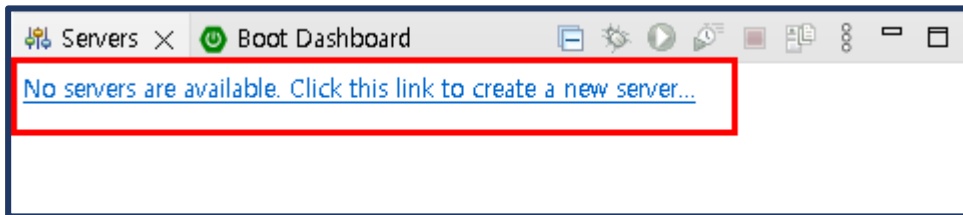
# 아파치 톰캣(Apache Tomcat)

다운로드 된 압축파일을 자신의 폴더로 옮긴 후 압축을 풀어주자!!



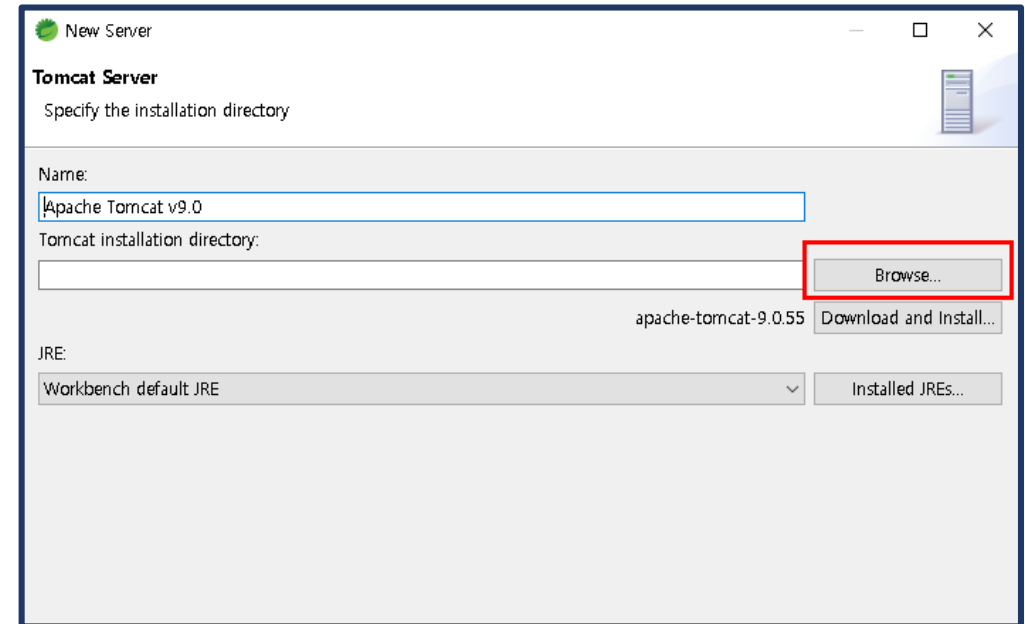
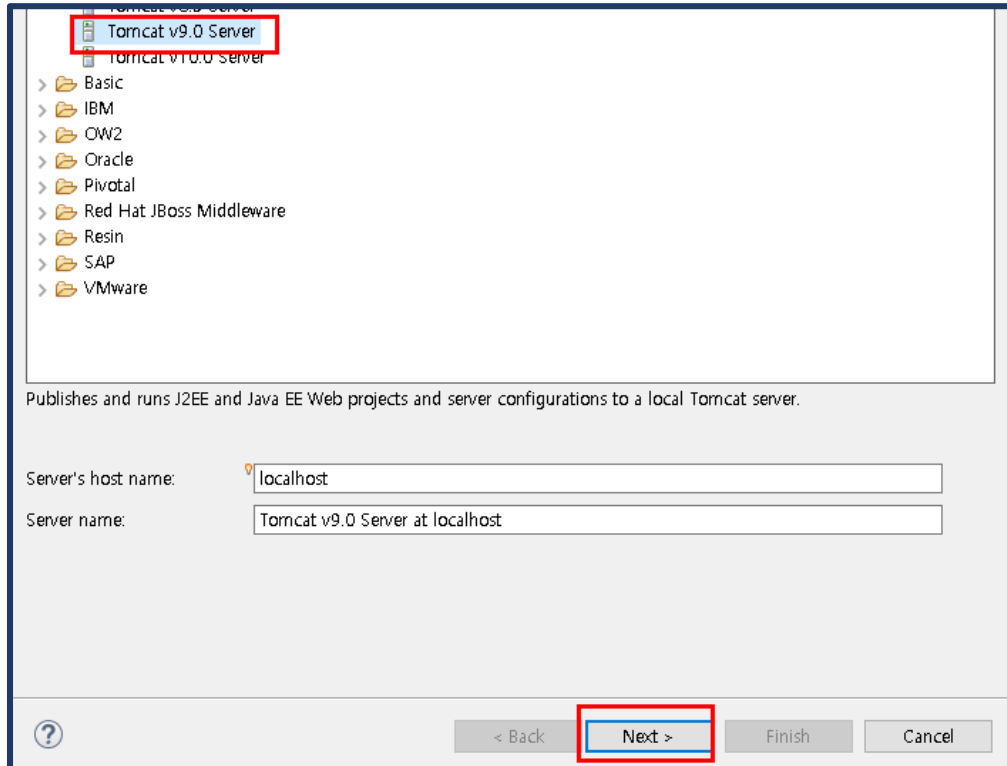
# 아파치 톰캣(Apache Tomcat)

Servers > 클릭! 서버선택이 나오면 Tomcat 9.0 클릭!!



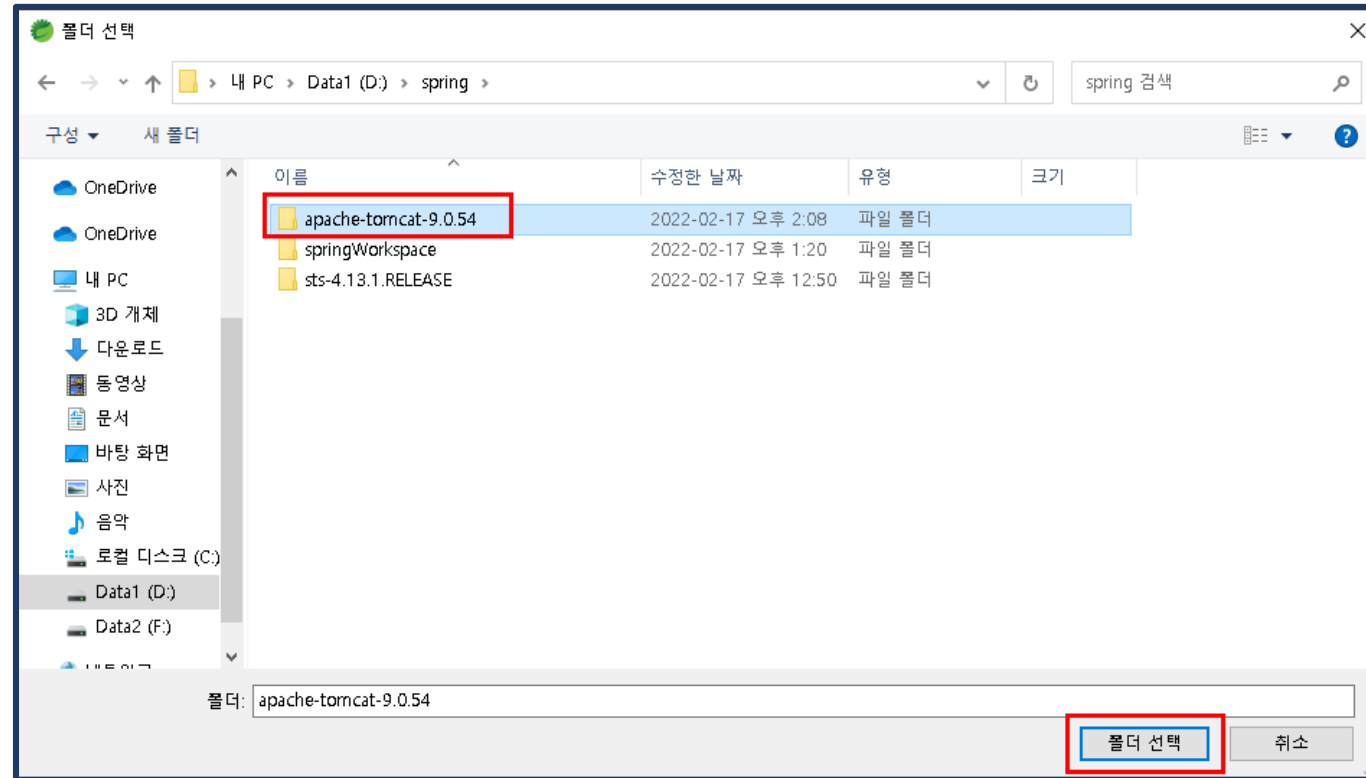
# 아파치 톰캣(Apache Tomcat)

Next 클릭 후 톰캣이 설치되어있는 폴더 지정하기 위해 Browse 클릭!!



# 아파치 톰캣(Apache Tomcat)

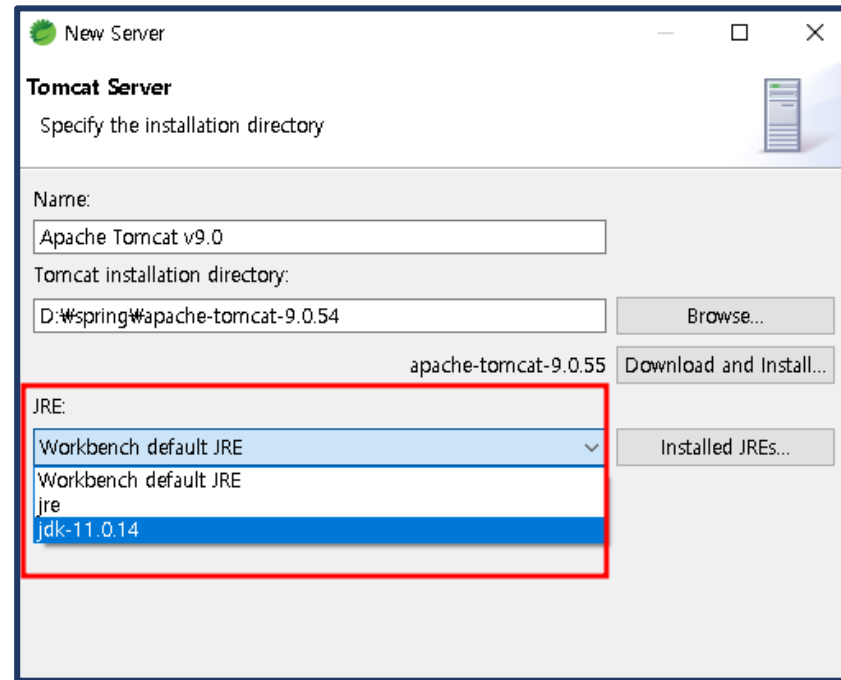
압축 푼 톰캣폴더 선택을 하자!





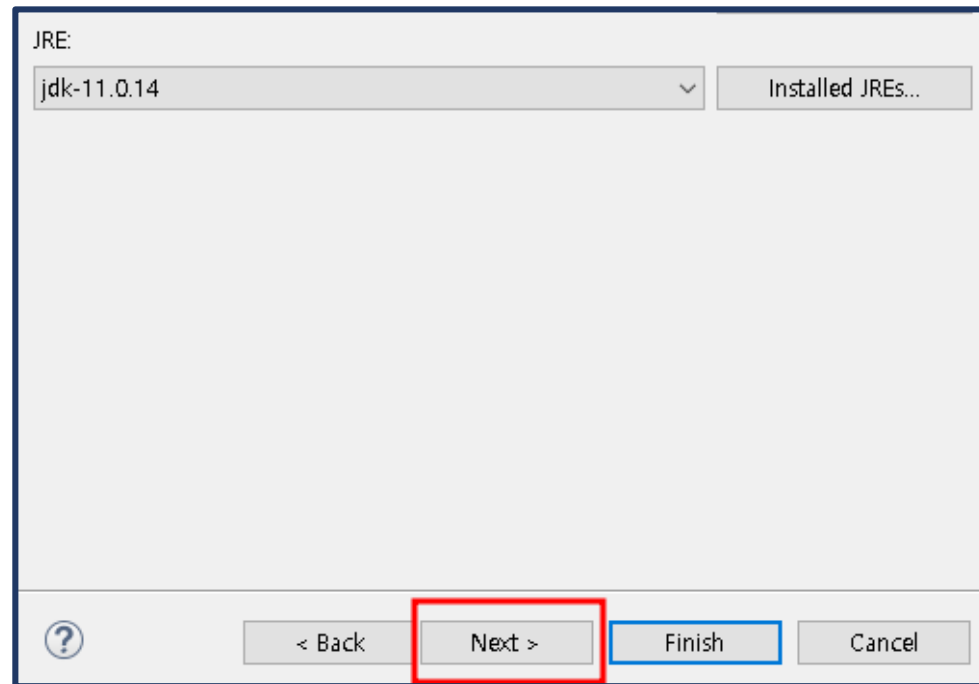
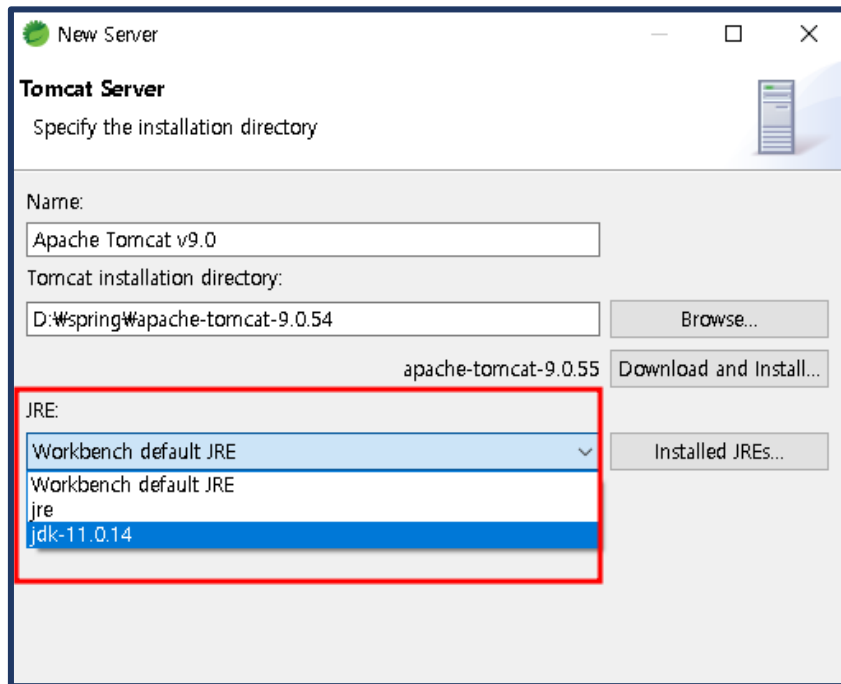
# 아파치 톰캣(Apache Tomcat)

JRE 를 jdk-11 로 바꾸어 주자!



# 아파치 톰캣(Apache Tomcat)

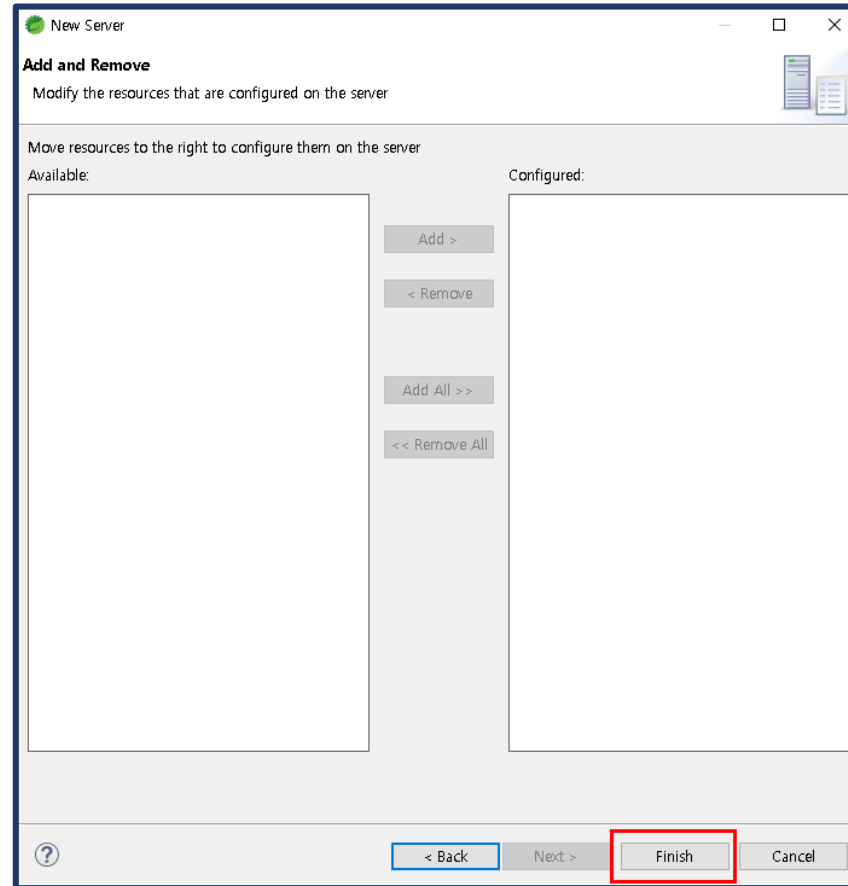
JRE 를 jdk-11 로 바꾸어 주자! > Next 클릭!





# 아파치 톰캣(Apache Tomcat)

프로젝트를 아직 만들지 않아서 프로젝트가 보이지 않는다. > Finish 클릭!!!

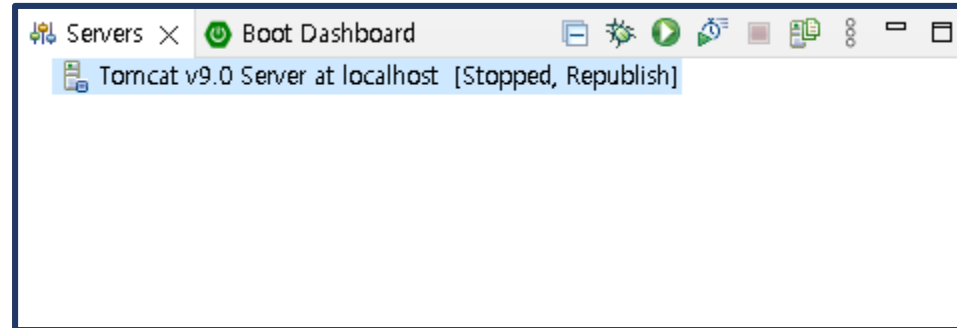






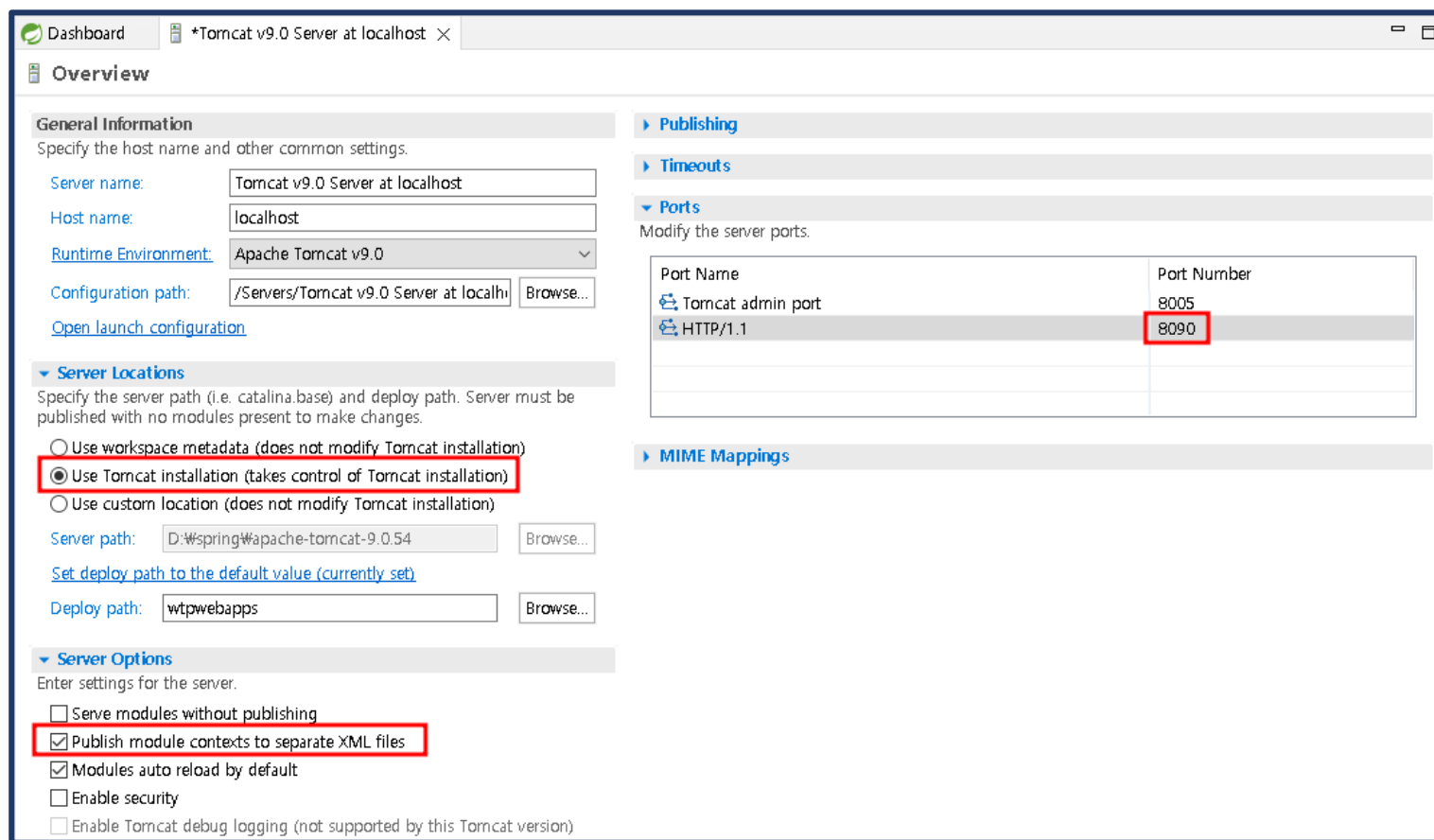
# 아파치 톰캣(Apache Tomcat)

Servers 에 톰캣서버가 올라와 있을 것이다. 더블클릭!!



# 아파치 톰캣(Apache Tomcat)

서버위치 / 옵션 / 포트번호를 수정 후 저장하자 ( CTRL + S )



Dashboard \*Tomcat v9.0 Server at localhost

Overview

**General Information**  
Specify the host name and other common settings.

Server name: Tomcat v9.0 Server at localhost

Host name: localhost

Runtime Environment: Apache Tomcat v9.0

Configuration path: /Servers/Tomcat v9.0 Server at localhost Browse...

[Open launch configuration](#)

**Server Locations**  
Specify the server path (i.e. catalina.base) and deploy path. Server must be published with no modules present to make changes.

☐ Use workspace metadata (does not modify Tomcat installation)

☒ Use Tomcat installation (takes control of Tomcat installation)

☐ Use custom location (does not modify Tomcat installation)

Server path: D:\spring\apache-tomcat-9.0.54 Browse...

[Set deploy path to the default value \(currently set\)](#)

Deploy path: wtpwebapps Browse...

**Server Options**  
Enter settings for the server.

☐ Serve modules without publishing

☒ Publish module contexts to separate XML files

☒ Modules auto reload by default

☐ Enable security

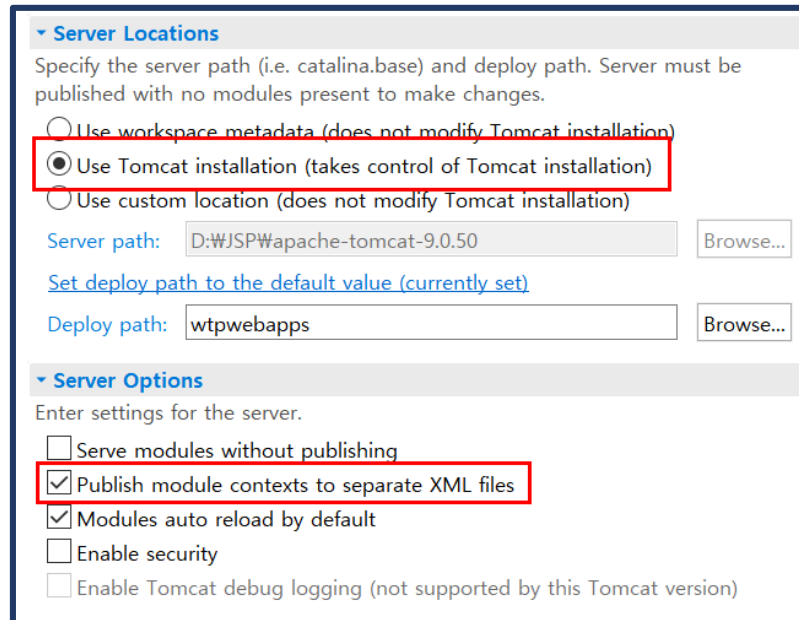
☐ Enable Tomcat debug logging (not supported by this Tomcat version)

**Ports**  
Modify the server ports.

Port Name	Port Number
Tomcat admin port	8005
HTTP/1.1	8090

# 아파치 톰캣(Apache Tomcat)

use Tomcat installation은 톰캣이 설치되어있는 곳으로 path를 요청한다는 의미이고 Publish modul contexts to separate XML files는 STS에서 환경설정이나 xml 파일 작업을 하면 그것을 실제 톰캣이 있는 서버와 동기화를 시킨다는 것이다.



**Server Locations**

Specify the server path (i.e. catalina.base) and deploy path. Server must be published with no modules present to make changes.

☐ Use workspace metadata (does not modify Tomcat installation)

☒ Use Tomcat installation (takes control of Tomcat installation)

☐ Use custom location (does not modify Tomcat installation)

Server path: D:\JSP\Wapache-tomcat-9.0.50

[Set deploy path to the default value \(currently set\)](#)

Deploy path: wtpwebapps

**Server Options**

Enter settings for the server.

☐ Serve modules without publishing

☒ Publish module contexts to separate XML files

☒ Modules auto reload by default

☐ Enable security

☐ Enable Tomcat debug logging (not supported by this Tomcat version)



# 아파치 톰캣(Apache Tomcat)

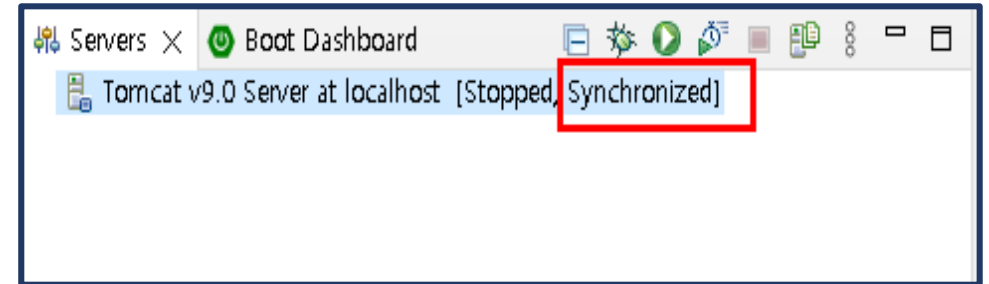
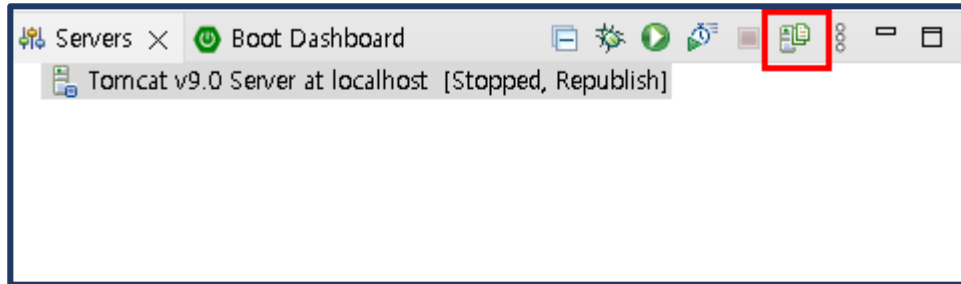
기본적으로 STS에 톰캣 서버를 올리면 8080이라는 기본 포트 설정값을 가지고 있는데 톰캣을 ORACLE이랑 함께 사용한다면 ORACLE 역시 기본 포트값이 8080 이기때문에 충돌이 난다. (8090, 8181 등 포트번호를 변경해주자.)

The screenshot shows the 'Ports' tab in the Apache Tomcat Manager interface. It contains a table for configuring server ports. The 'Tomcat admin port' is set to 8005, and the 'HTTP/1.1' port is set to 8090, which is highlighted with a red box.

Port Name	Port Number
Tomcat admin port	8005
HTTP/1.1	8090

# 아파치 톰캣(Apache Tomcat)

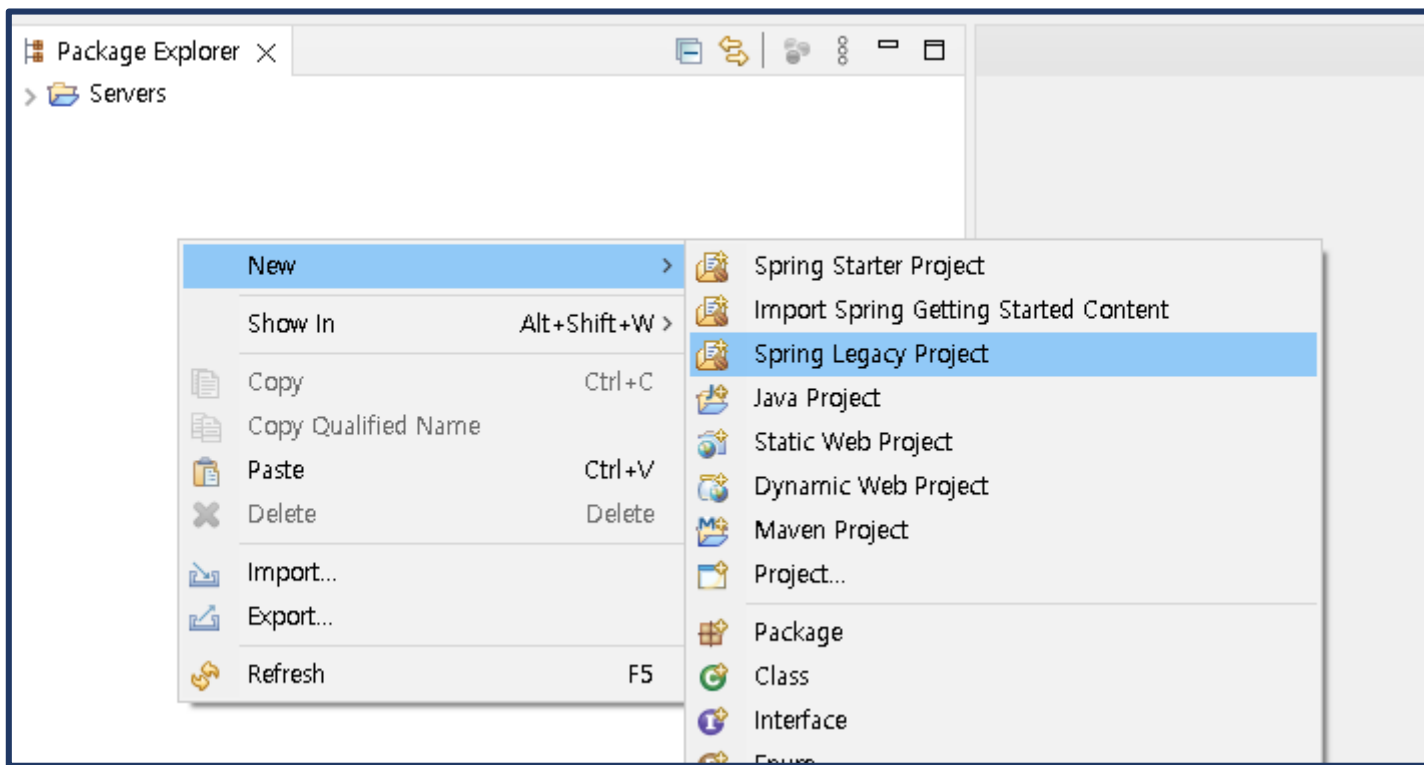
수정을 했으면 동기화 버튼을 클릭!!



# 웹 프로젝트(MVC) 만들기

자 이제 프로젝트를 만들어보자!!

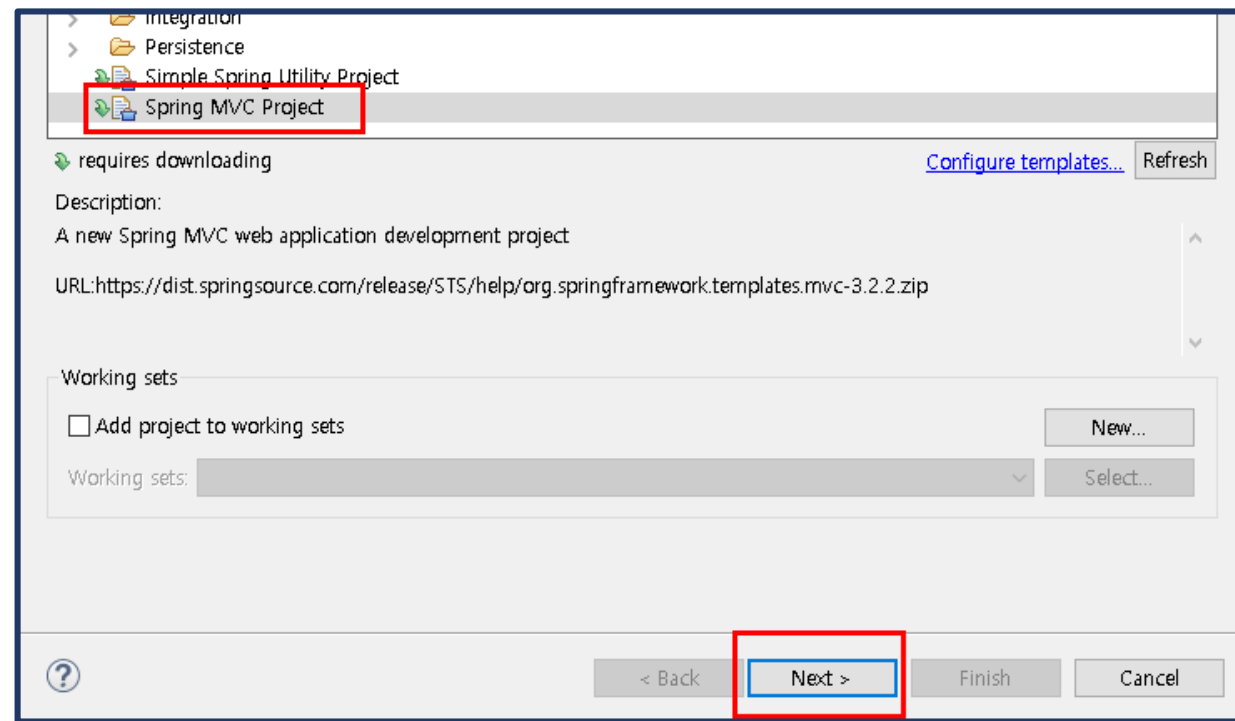
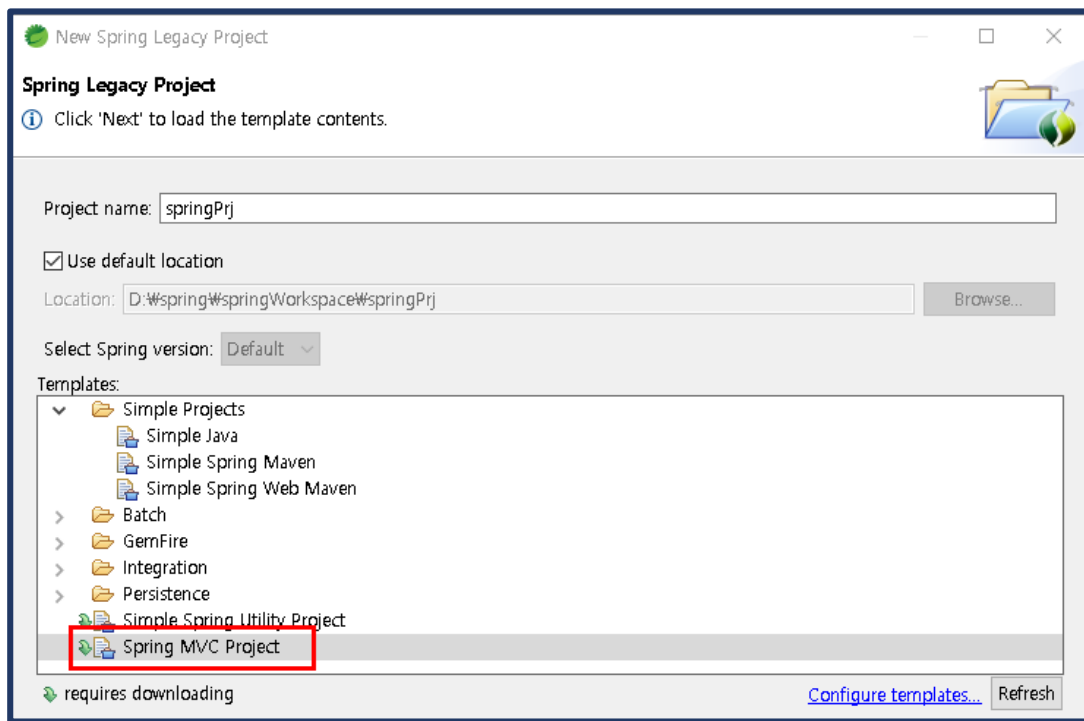
Package Explorer에서 우클릭 > New > 레거시 프로젝트 클릭!!





# 웹 프로젝트(MVC) 만들기

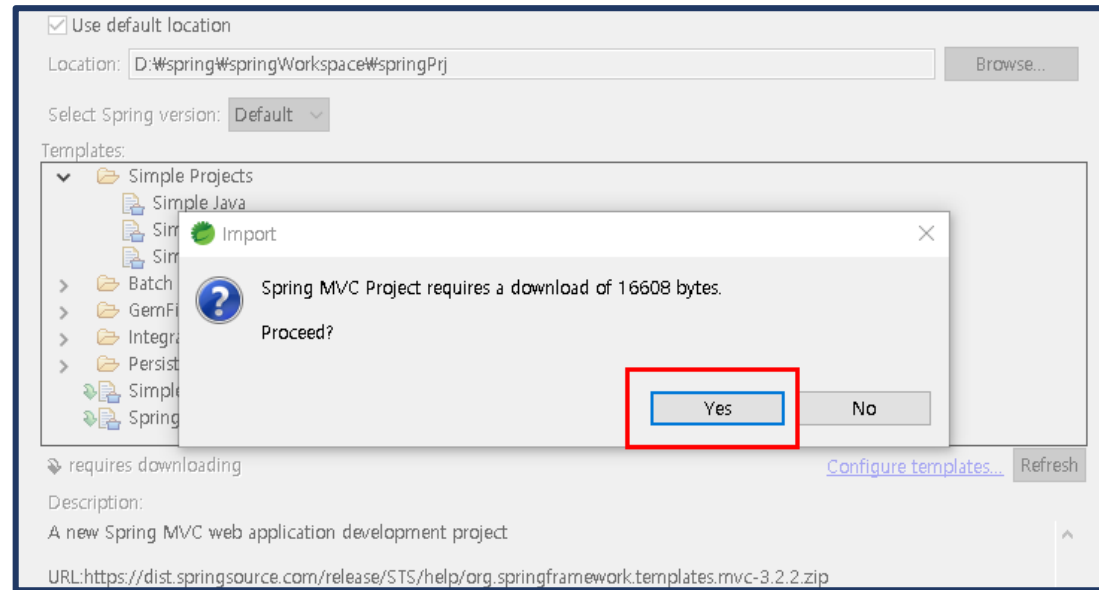
프로젝트 이름을 쓴 후 Spring MVC Project 클릭!! > Next 클릭!!!





# 웹 프로젝트(MVC) 만들기

프로젝트를 생성하는데 있어 파일 다운로드가 필요하다고 나오면 YES 클릭!!



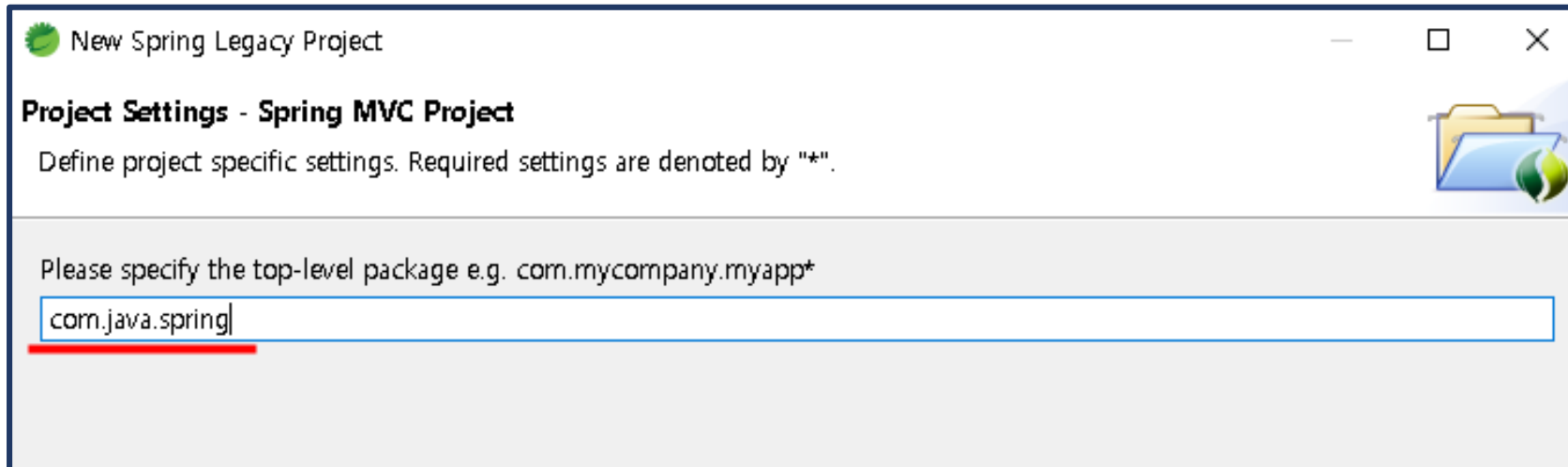




# 웹 프로젝트(MVC) 만들기

기본 패키지를 작성하라는 입력란이 나온다. 작성 시 (3그룹으로) 나누어 작성을 하여야 한다. 패키지명은 보통 회사 도메인 주소의 역순에 프로그램명을 붙인다. 소문자만 사용하며 각 그룹을 점[.]으로 구분한다.

규칙 : 최상위도메인.회사명.프로젝트명 (3번째 그룹은 Context-Path 가 된다.)

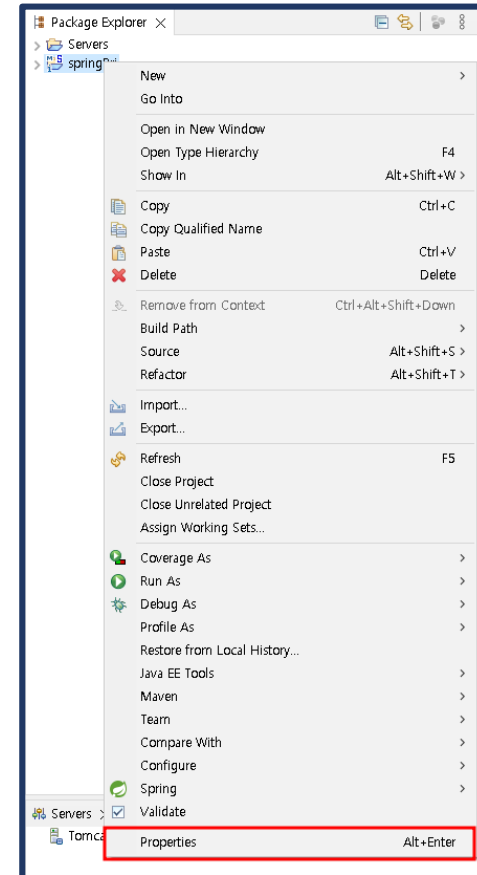
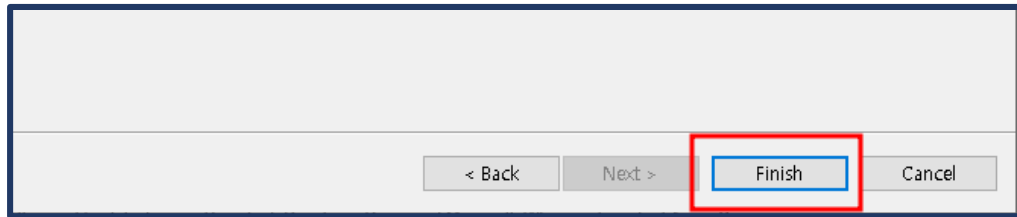




# 웹 프로젝트(MVC) 만들기

Finish를 누르면 프로젝트가 생성되어진다.

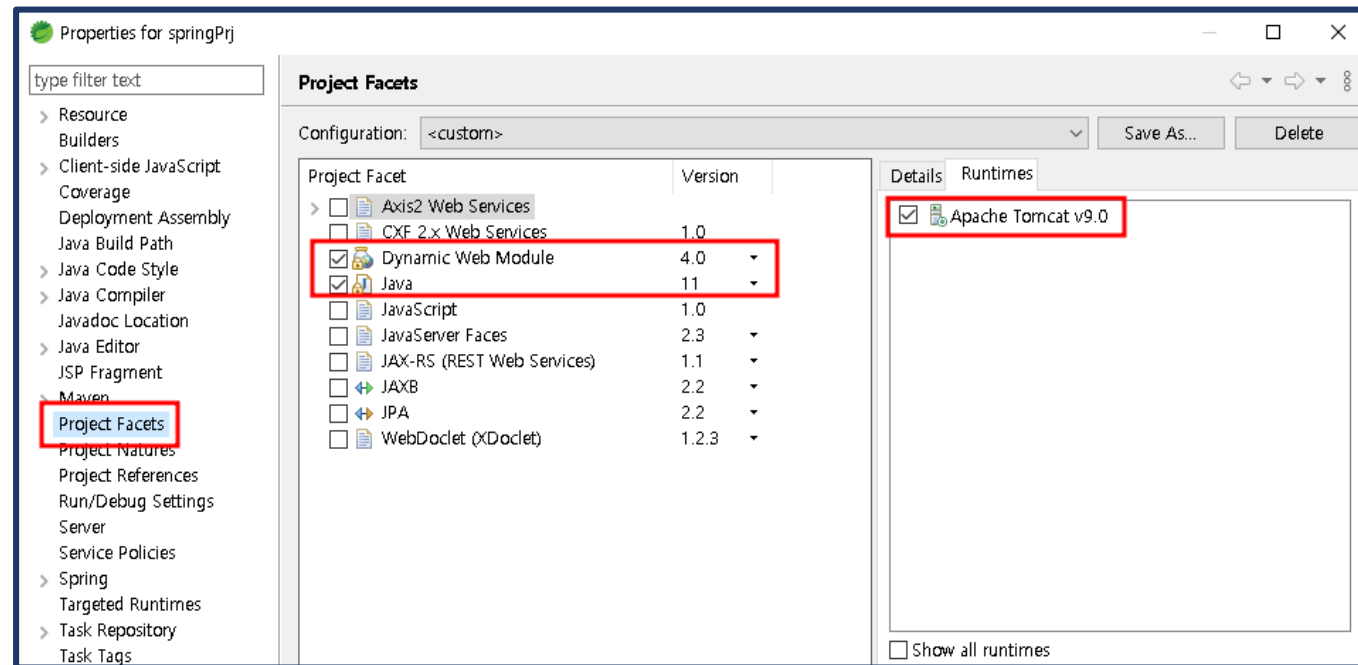
프로젝트를 셋팅하기 위하여 프로젝트 우클릭 후 Properties 클릭!!





# 웹 프로젝트(MVC) 만들기

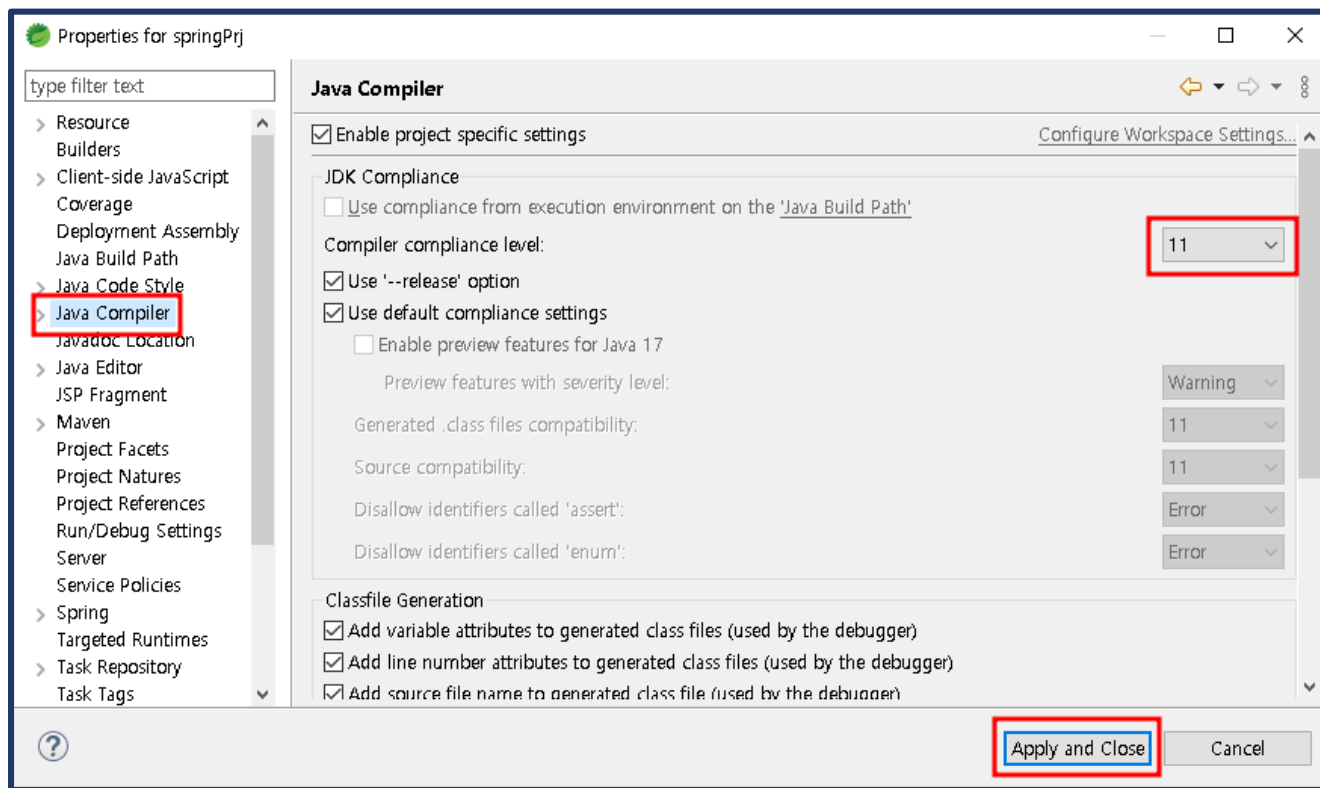
Project Facets 클릭 후 Java 버전과 Dynamic Web Module 버전을 맞추자!!!  
Runtimes 클릭 후 톰캣서버 체크한 후 Apply 클릭!!





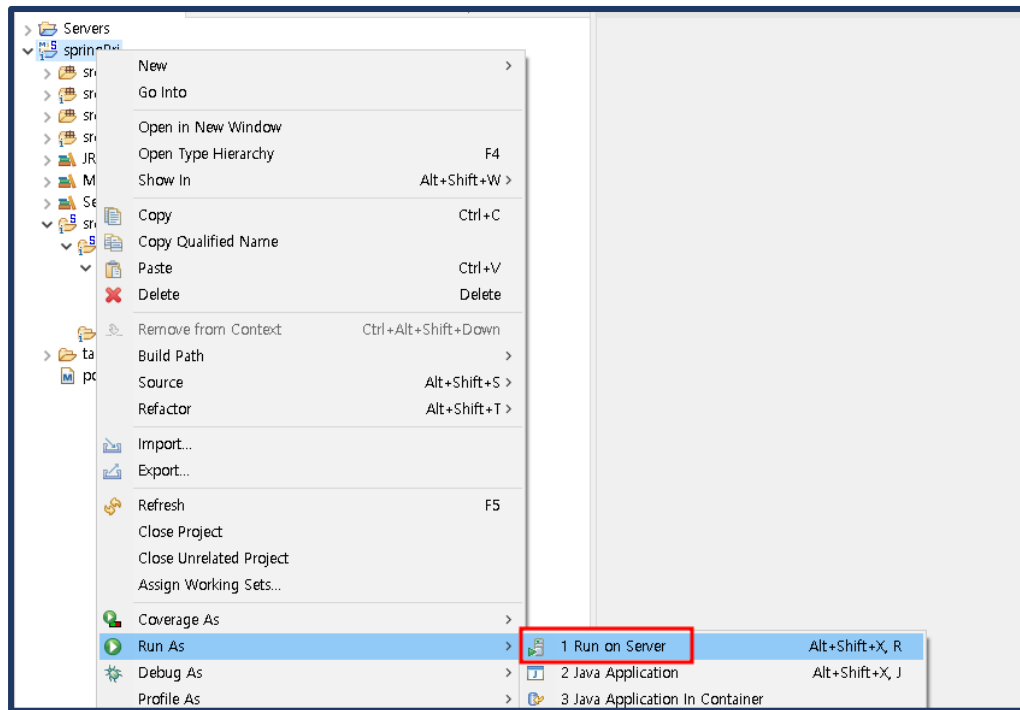
# 웹 프로젝트(MVC) 만들기

Java Compiler 클릭 후 Java 버전을 맞추자!!! Apply and Close 클릭!!



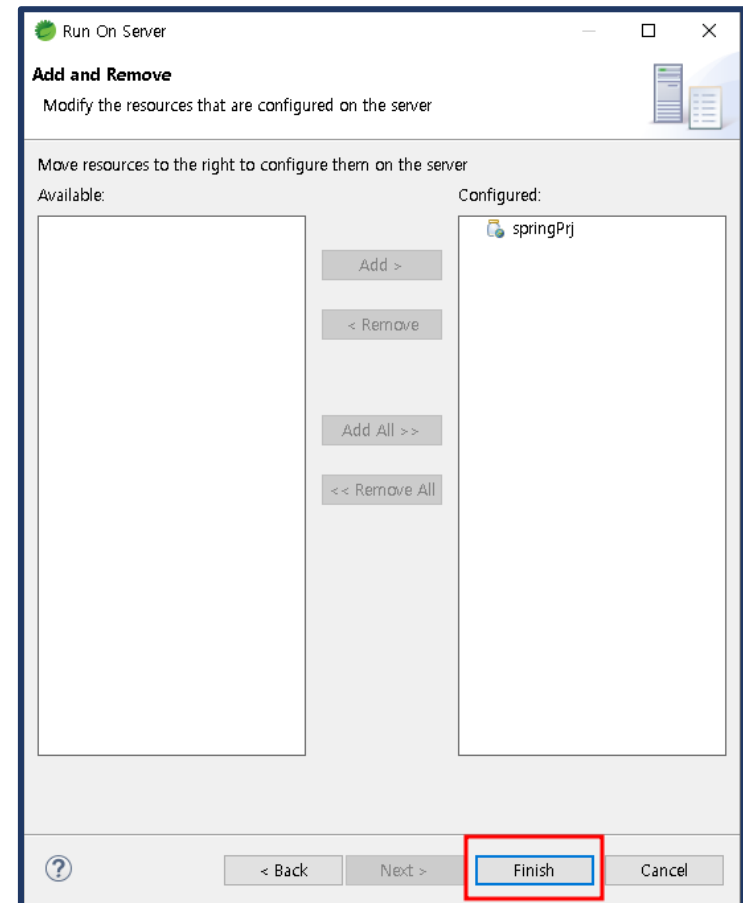
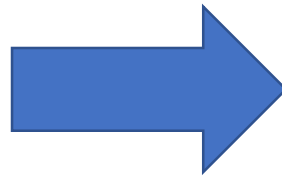
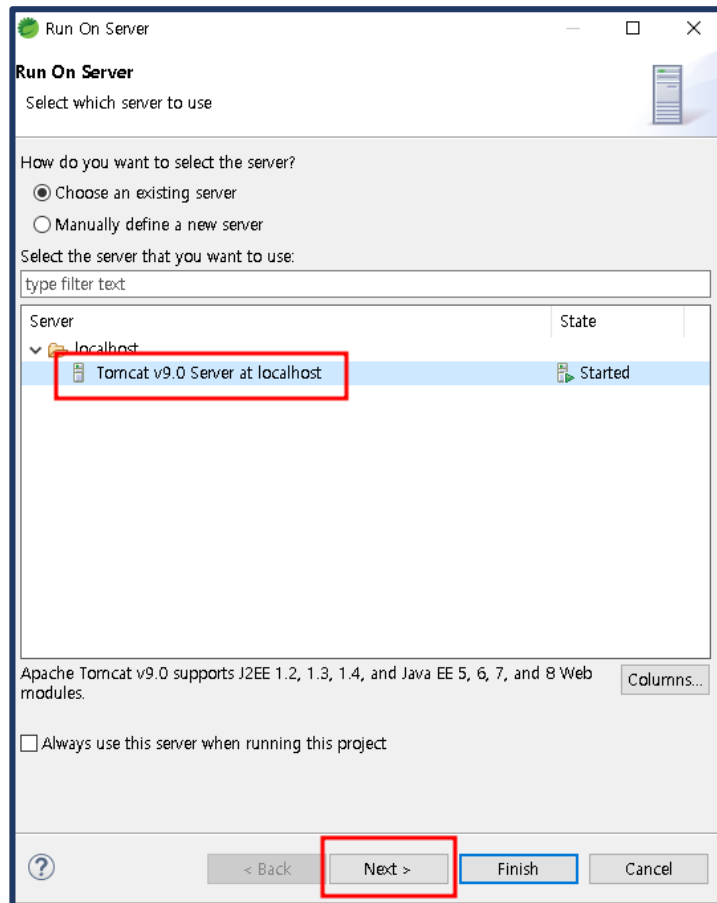
# 웹 프로젝트(MVC) 만들기

Spring 프로젝트 셋팅이 완료 되었으면 확인을 해보자!!  
기본적으로 스프링 MVC 프로젝트는 실행 시 기본 대문페이지가 나온다.  
프로젝트 우클릭 > Run As > Run on Server 클릭!!



# 웹 프로젝트(MVC) 만들기

TomCat 서버 선택 후 Next 클릭 > 프로젝트가 보일 것이다. Finish 클릭!!





# 웹 프로젝트(MVC) 만들기

기본 STS에서 제공되는 웹 브라우저에 Hello world! 라고 나올 것이다!!  
성공적으로 웹 프로젝트를 만들었다!!!

