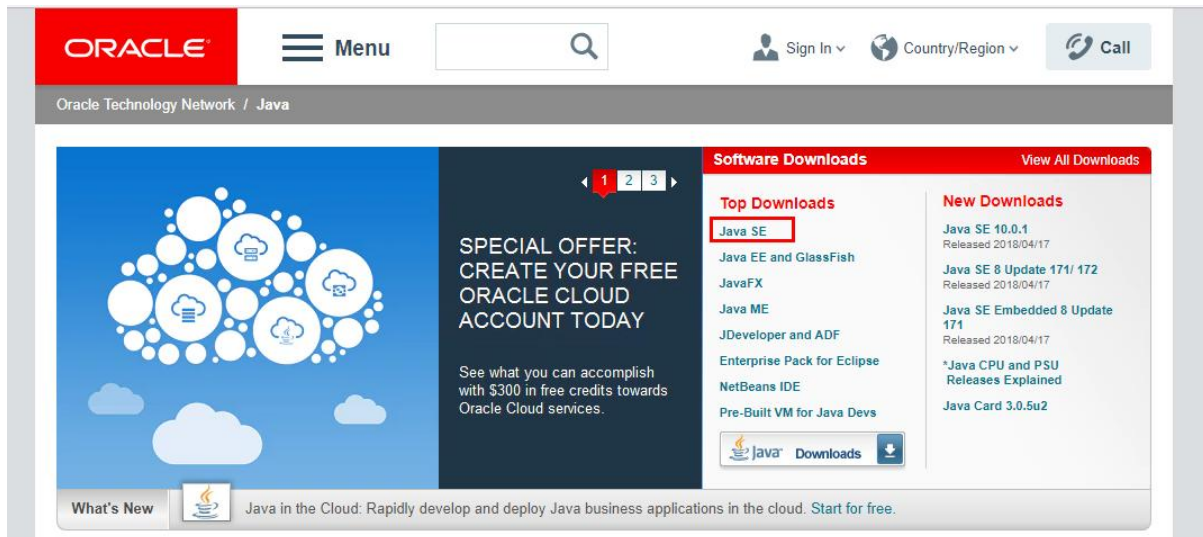


## \* Java JDK 설치방법

### 1. java.sun.com 접속 -> Java SE 클릭



### 2. 1.8버전 JDK 다운로드

**Java SE 8u171/ 8u172**  
Java SE 8u171 includes important bug fixes. Oracle strongly recommends that all Java SE 8 users upgrade to this release. Java SE 8u172 is a patch-set update, including all of 8u171 plus additional bug fixes (described in the release notes).  
[Learn more](#) ▶

- [Installation Instructions](#)
- [Release Notes](#)
- [Oracle License](#)
- [Java SE Licensing Information User Manual](#)
  - [Includes Third Party Licenses](#)
- [Certified System Configurations](#)
- [Readme Files](#)
  - [JDK ReadMe](#)
  - [JRE ReadMe](#)

**JDK**  
**DOWNLOAD** ↓

**Server JRE**  
**DOWNLOAD** ↓

**JRE**  
**DOWNLOAD** ↓

### 3. 라이선스 동의 후 자신의 운영체제에 맞는 버전 다운로드 후 설치

## Java SE Development Kit 8u172

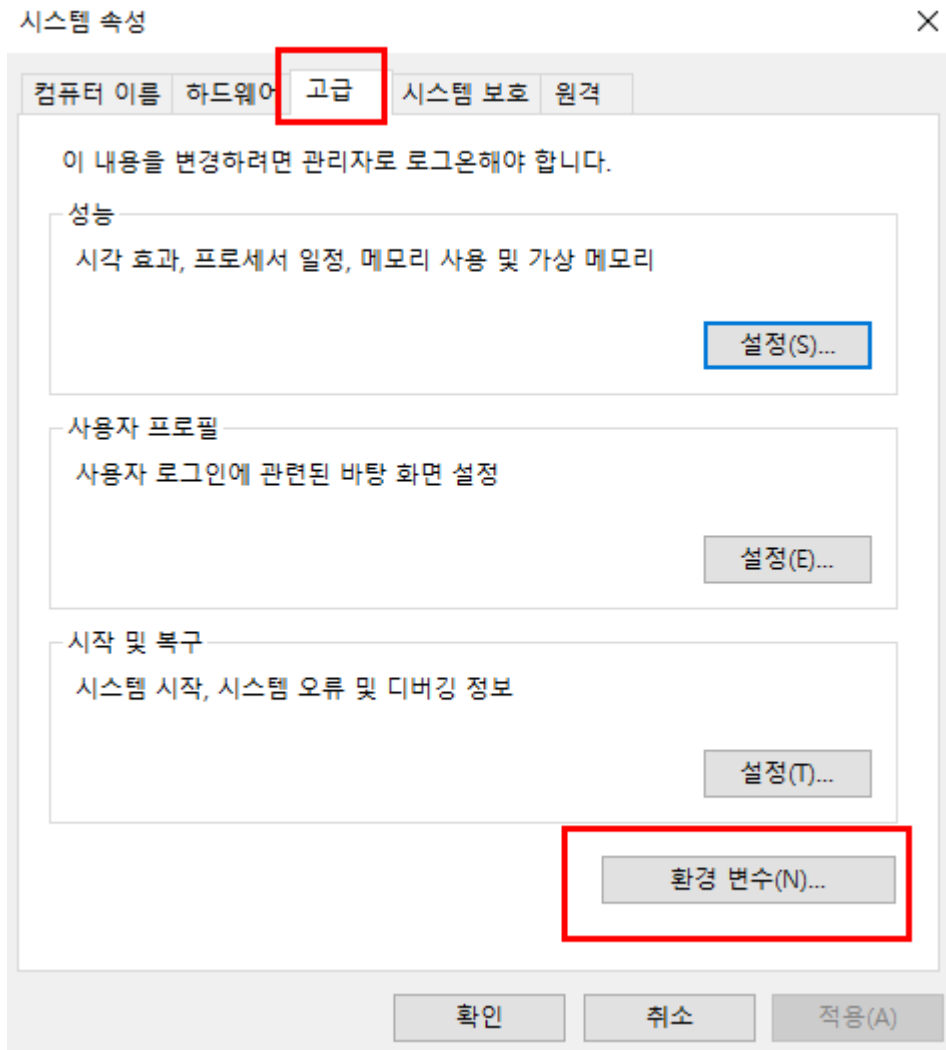
You must accept the [Oracle Binary Code License Agreement for Java SE](#) to download this software.

☒ Accept License Agreement ☐ Decline License Agreement

Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	77.99 MB	<a href="#">jdk-8u172-linux-arm32-vfp-hflt.tar.gz</a>
Linux ARM 64 Hard Float ABI	74.9 MB	<a href="#">jdk-8u172-linux-arm64-vfp-hflt.tar.gz</a>
Linux x86	170.07 MB	<a href="#">jdk-8u172-linux-i586.rpm</a>
Linux x86	184.91 MB	<a href="#">jdk-8u172-linux-i586.tar.gz</a>
Linux x64	167.15 MB	<a href="#">jdk-8u172-linux-x64.rpm</a>
Linux x64	182.08 MB	<a href="#">jdk-8u172-linux-x64.tar.gz</a>
Mac OS X x64	247.87 MB	<a href="#">jdk-8u172-macosx-x64.dmg</a>
Solaris SPARC 64-bit (SVR4 package)	140.05 MB	<a href="#">jdk-8u172-solaris-sparcv9.tar.Z</a>
Solaris SPARC 64-bit	99.35 MB	<a href="#">jdk-8u172-solaris-sparcv9.tar.gz</a>
Solaris x64 (SVR4 package)	140.63 MB	<a href="#">jdk-8u172-solaris-x64.tar.Z</a>
Solaris x64	97.06 MB	<a href="#">jdk-8u172-solaris-x64.tar.gz</a>
Windows x86	199.11 MB	<a href="#">jdk-8u172-windows-i586.exe</a>
Windows x64	207.3 MB	<a href="#">jdk-8u172-windows-x64.exe</a>

**\* Java 환경 변수 설정**

**1. 내 컴퓨터 오른쪽 클릭 -> 설정 -> 고급 시스템 설정 -> 고급 -> 환경 변수**



2. 시스템 변수 -> 새로 만들기에 아래 그림과 같이 입력.

시스템 변수 편집

변수 이름(N):

변수 값(V):

디렉터리 찾아보기(D)...    파일 찾아보기(F)...       

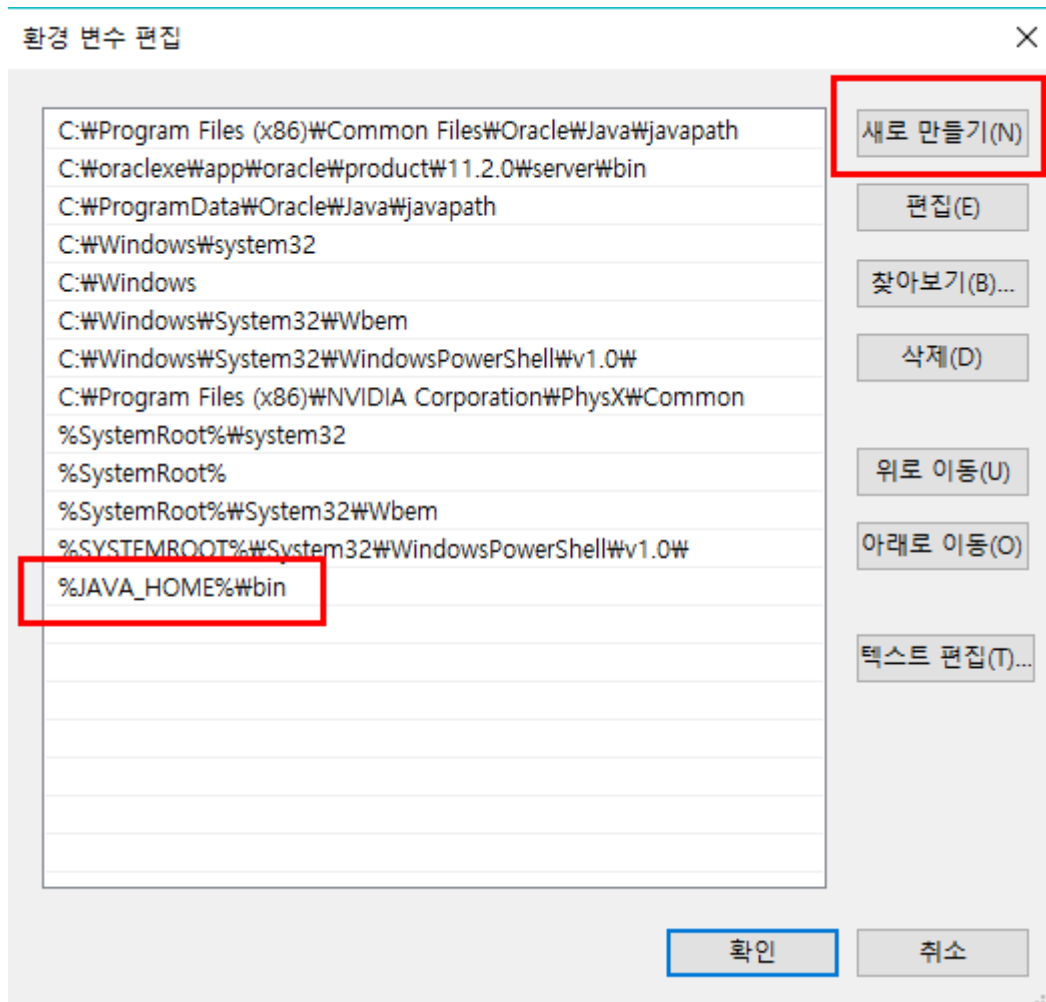
      

**시스템 변수(S)**

변수	값
FP_NO_HOST_CH...	NO
JAVA_HOME	C:\Program Files\Java\jdk1.8.0_121
NUMBER_OF_PRO...	2
OS	Windows_NT

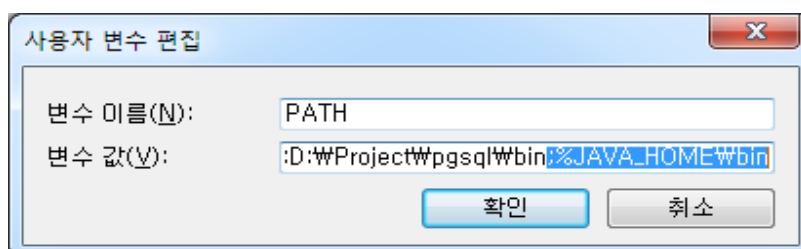
### 3. Path 항목 더블클릭 -> %JAVA\_HOME%\bin 입력

#### window 10 기준



#### window 7 기준

#### ;%JAVA\_HOME%\bin 입력 (앞에 세미콜론에 주의)

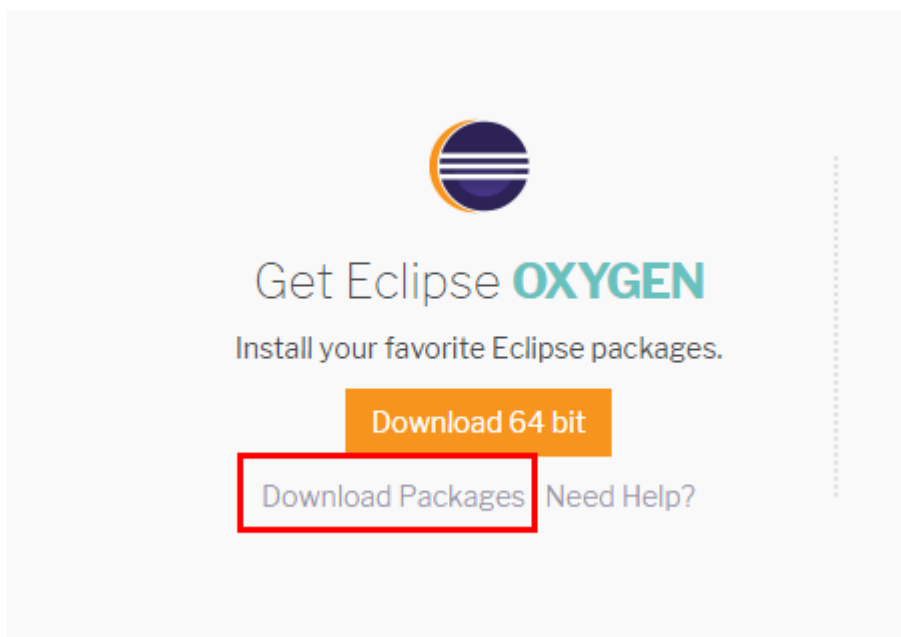


## \* 이클립스 설치

### 1. eclipse.org 접속 -> download 클릭



### 2.



### 3. Java EE Developer 다운로드

	<a href="#">Eclipse IDE for Java EE Developers</a> 334 MB 305,787 DOWNLOADS Tools for Java developers creating Java EE and Web applications, including a Java IDE, tools for Java EE, JPA, JSF, Mylyn...	Windows 32 bit   <b>64 bit</b>
	<a href="#">Eclipse IDE for Java Developers</a> 180 MB 149,699 DOWNLOADS The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Mylyn, Maven and Gradle integration...	Windows 32 bit   64 bit

### 4. Download 클릭 (속도가 느릴경우 아래 미러사이트 이용)

[Download](#)

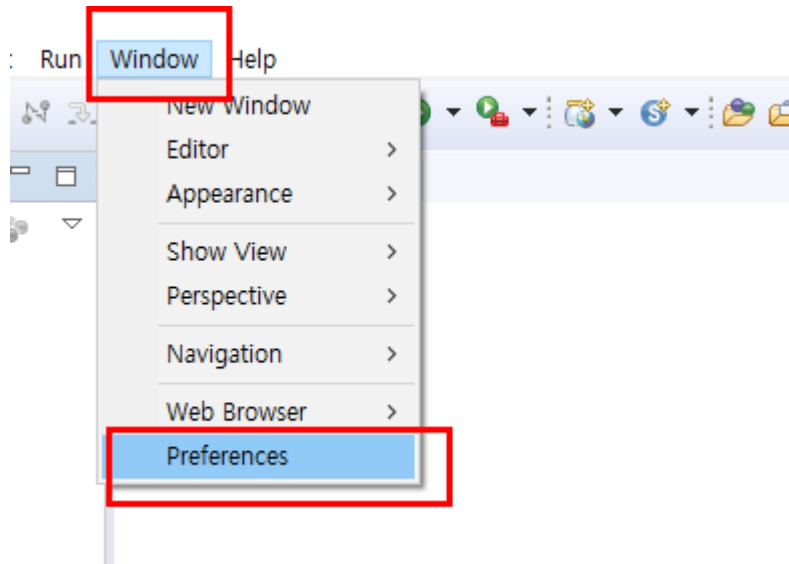
Download from: Japan - Japan Advanced Institute of Science and Technology (http)

File: [eclipse-jee-oxygen-3a-win32-x86\\_64.zip](#) SHA-512

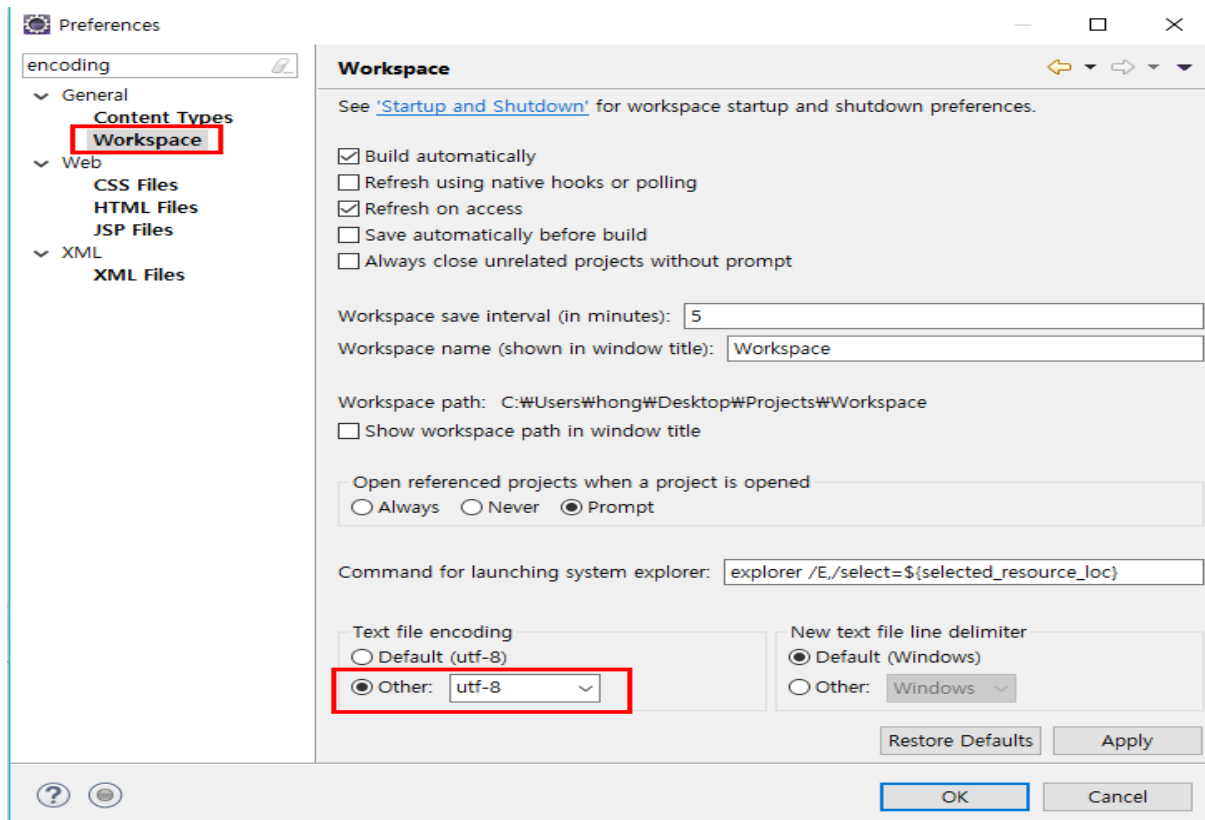
[>> Select Another Mirror](#)

\* 이클립스 실행 후 한글 인코딩

## 1. window -> preference 클릭

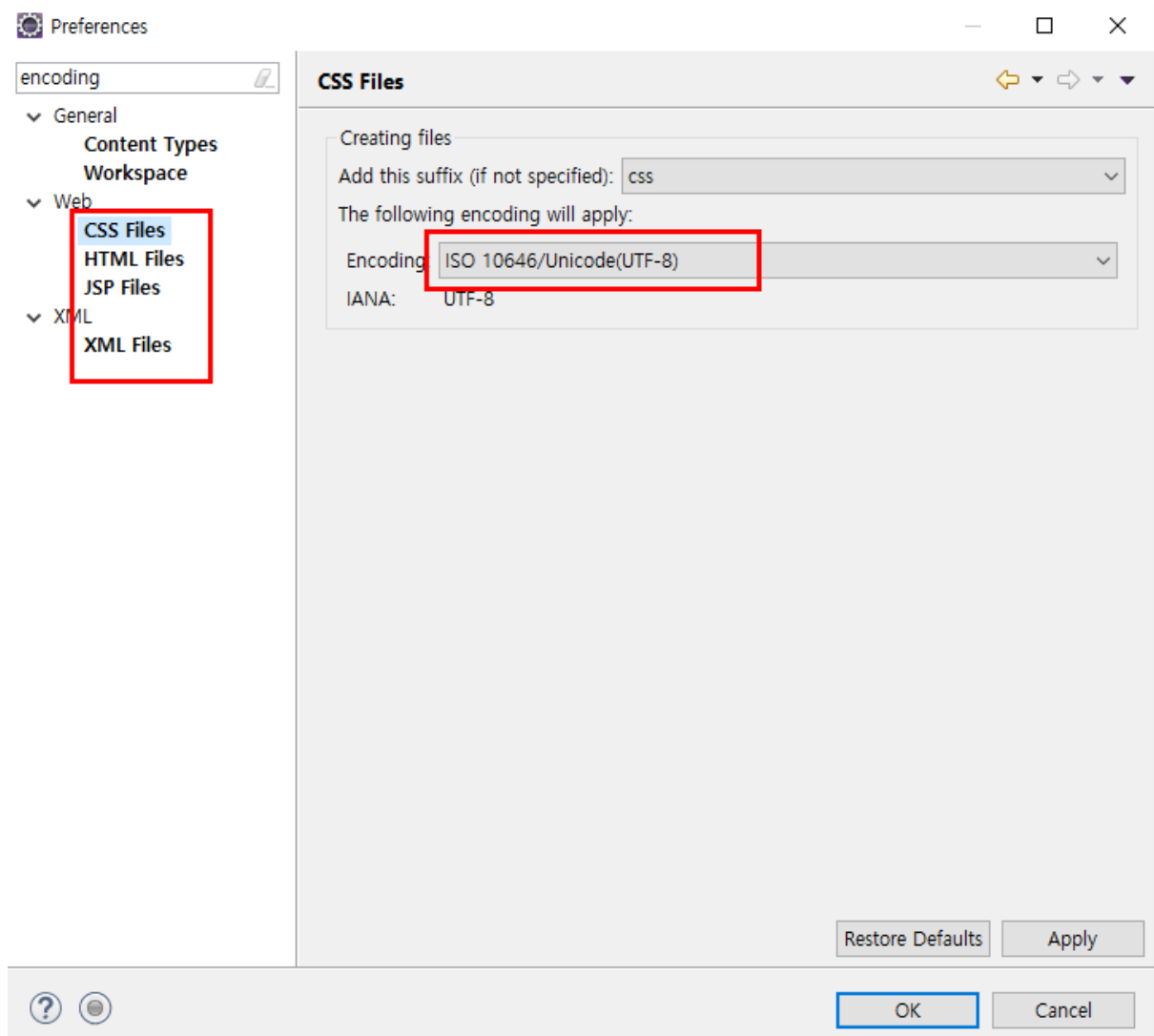


## 2. 좌측 상단에 encoding 입력 후 workspace 클릭 -> 인코딩을 utf-8로 변경





### 3. 웹 프로그래밍의 경우 Css, JSP, HTML, XML도 모두 각각 변경



## \* Tomcat 설치

### 1. tomcat.apache.org 접속 -> 좌측 탭에 Tomcat 8 클릭

**Apache Tomcat**

Home  
Taglibs  
Maven Plugin

**TomcatCon**

EU & North America

**Download**

Which version?  
Tomcat 9  
**Tomcat 8**  
Tomcat 7  
Tomcat Connectors  
Tomcat Native  
Taglibs  
Archives

The Apache Tomcat software is developed in an open and we invite you to participate in this open development project.

Apache Tomcat software powers numerous large-scale, mission-critical Internet-based applications.

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

### Tomcat 8.0.52 Released

The Apache Tomcat Project is proud to announce the release of version 8.0.52 of the Apache Tomcat software. The release includes:

- Implement configuration options to work-around some Java 9 issues
- Enable the CrawlerSessionManagerValve to correct some issues

Full details of these changes, and all the other changes, are available in the [Release Notes](#).

**Note:** End of life date for Apache Tomcat 8.0.x is announced for 2020-06-30.

### 2. 8.0 버전 core -> zip 클릭 후 압축 해제

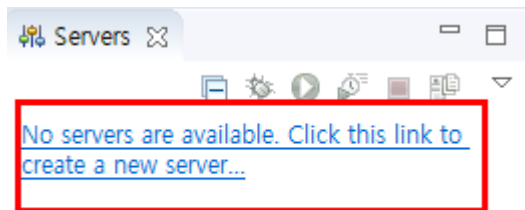
**8.0.52**

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

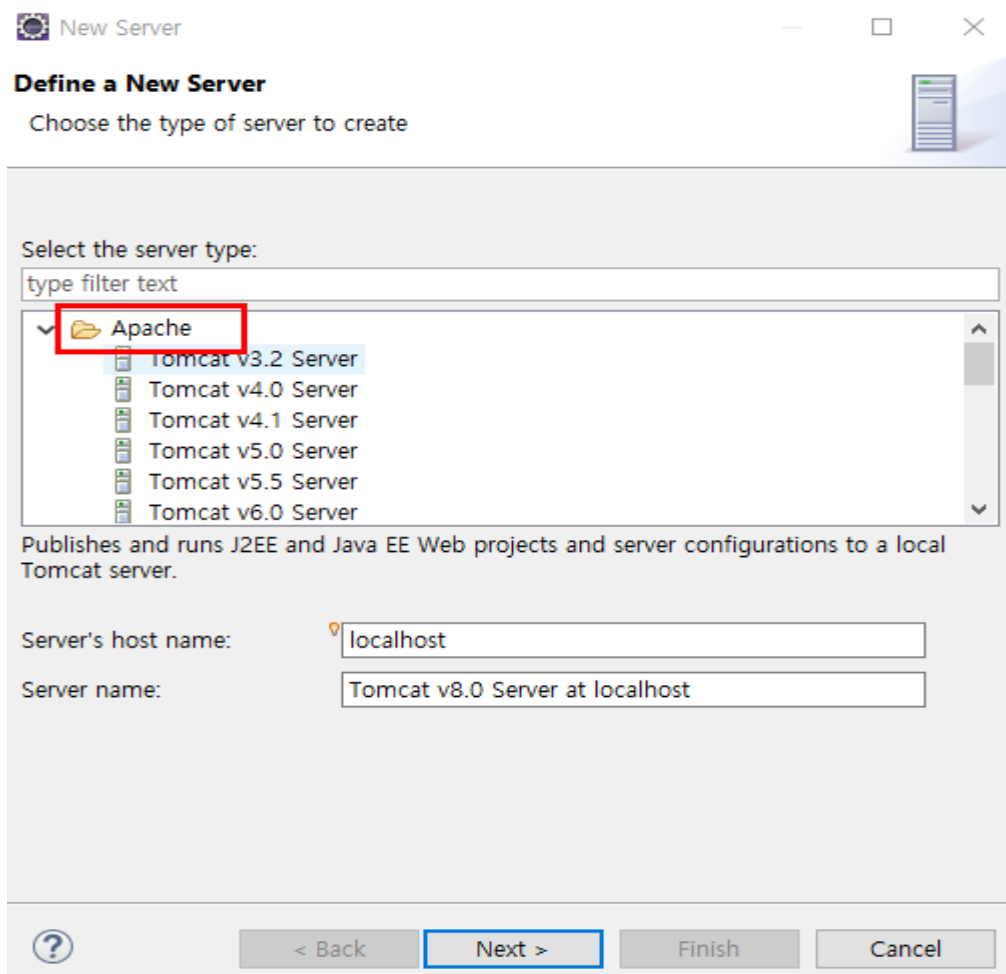
### Binary Distributions

- **Core:**
  - [zip](#) (pgp, sha1, sha512)
  - [tar.gz](#) (pgp, sha1, sha512)
  - [32-bit Windows zip](#) (pgp, sha1, sha512)
  - [64-bit Windows zip](#) (pgp, sha1, sha512)
  - [32-bit/64-bit Windows Service Installer](#) (pgp, sha1, sha512)
- Full documentation:

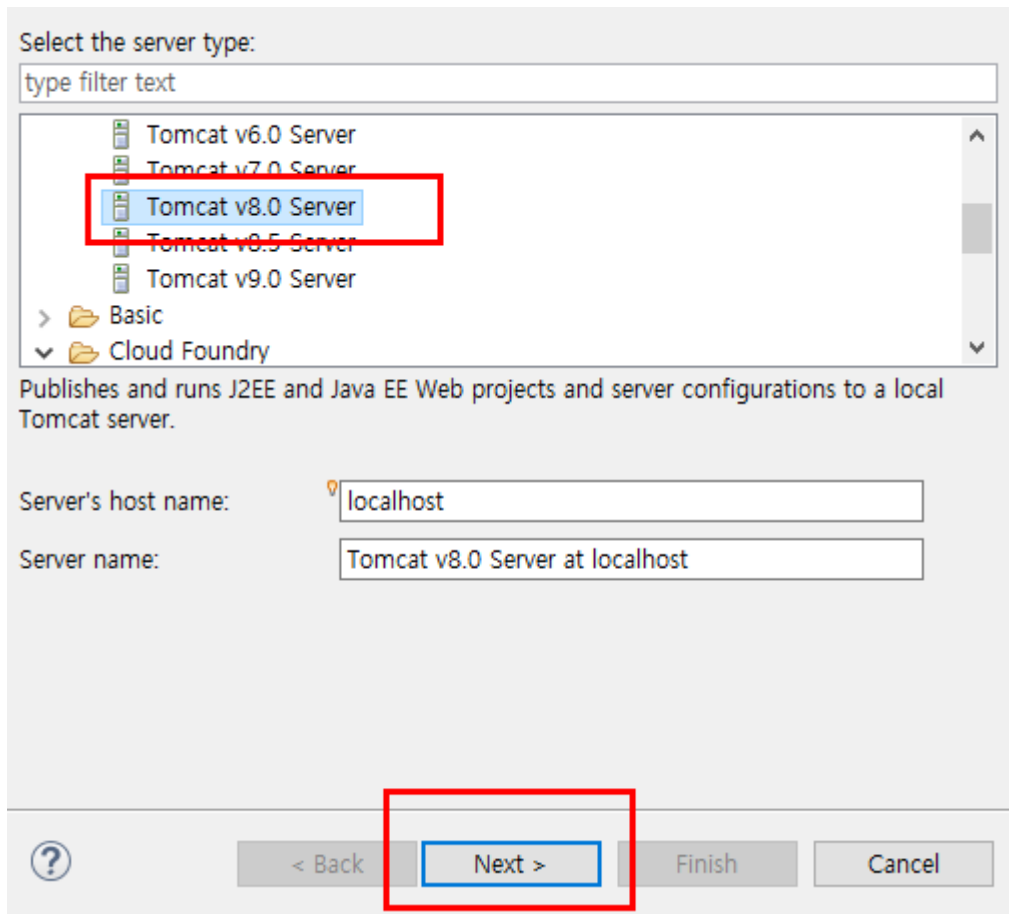
### 3. 이클립스 servers 탭에서 서버생성 클릭



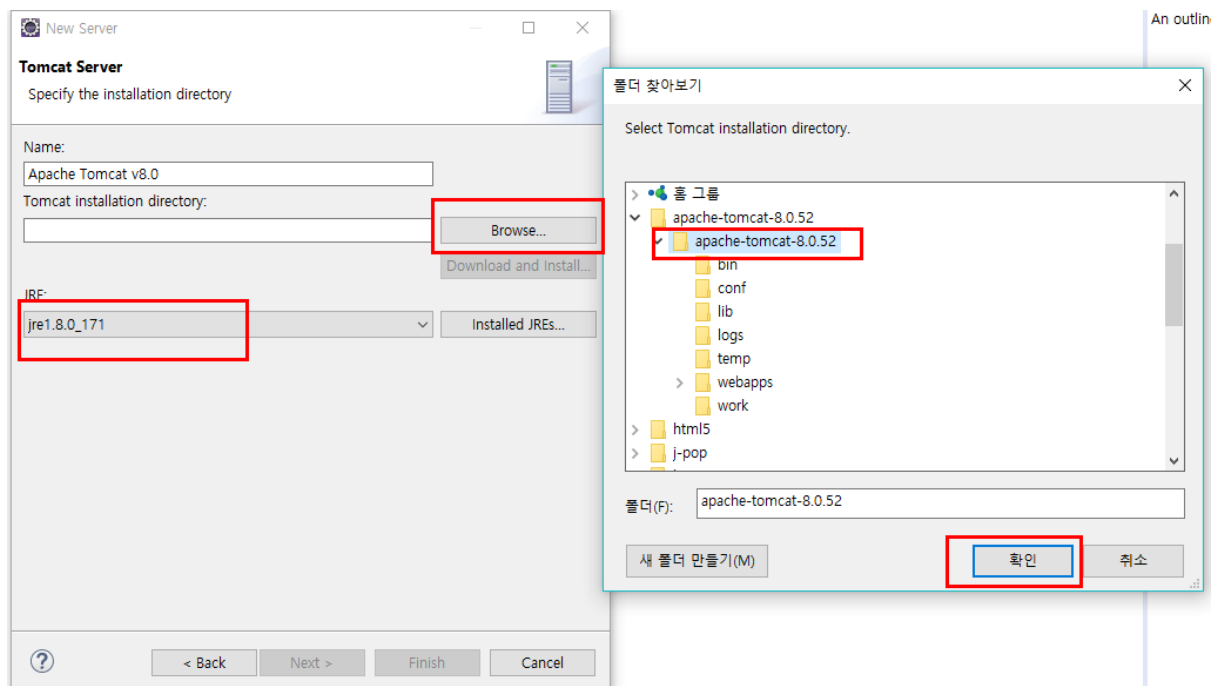
### 4. Apache 클릭



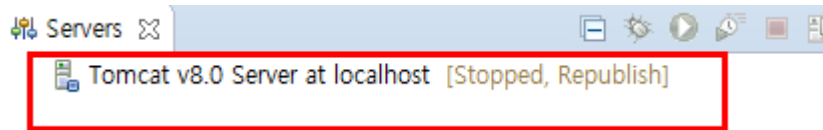
## 5. Tomcat 8.0 클릭 후 next



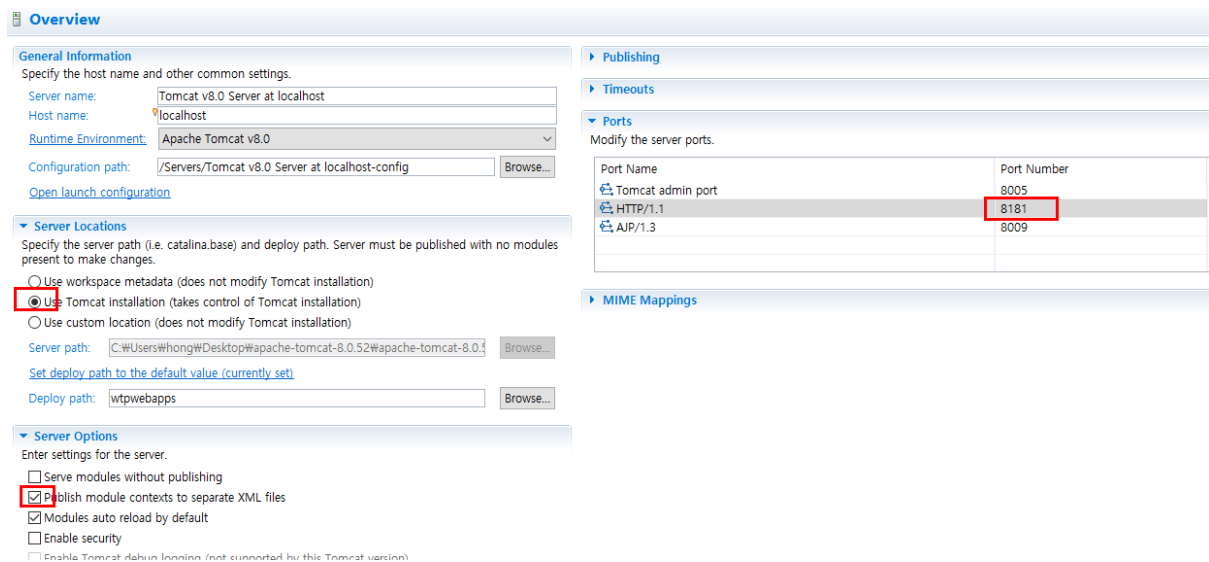
## 6. 톰캣이 설치된 디렉토리 설정 후 -> jre 경로 설정



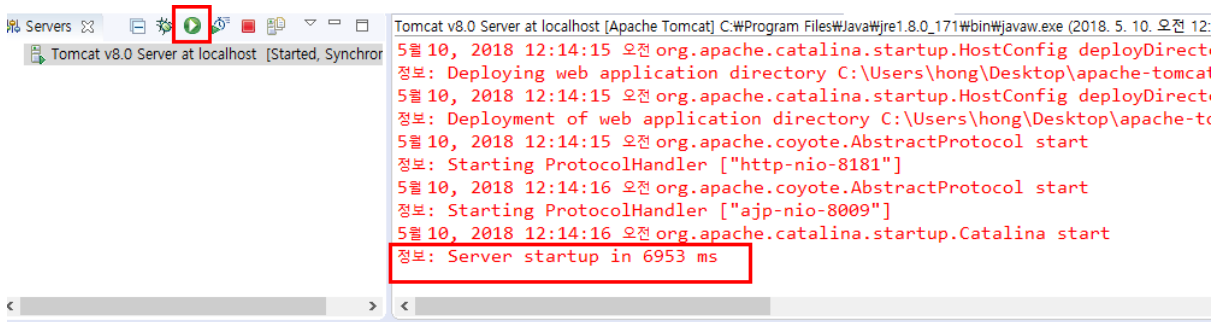
## 7. 서버가 생성되었으면 더블 클릭



## 8. 아래와 같이 체크 -> 포트번호 8181로 변경(오라클 데이터베이스 사용시 포트번호 겹치는 문제 사전에 해결)



## 9. run버튼을 눌러 서버실행 -> startup 메시지가 뜨면 서버 정상 실행



10. <http://localhost:8181/> 접속 시 고양이 그림이 나오면 서버 정상 가동 확인.

