

01. Development Environment

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00. Environment

00.01 OS : Windows 11 x64

00.02 Development kit

- JDK 11
- IDE
 - STS3 : Eclipse + Spring & Spring boot PlugIn
 - STS4 : Only Spring boot
 - IntelliJ
- Web server
 - Apache Tomcat 9
- Web browser

- Chrome
 - Database
 - MySQL v5.7
 - ETC
 - VSCode, Git, AWS, Maven
-

01. JDK Install

01.01 JDK 11 Download

▼ URL : <https://jdk.java.net/11/>

- OpenJDK Archive

JDK 11 Releases

The JDK 11 Early Access Program has concluded. Please visit [Java SE Downloads](#) for production ready builds.

Older releases, **which do not include the most up to date security vulnerability fixes and are no longer recommended for use in production**, remain available in the [OpenJDK Archive](#).

- 11 version 중 암거나 선택
 - 11.0.2 Zip file 다운로드.
 - GA : General Availability : 배포 가능 버전

Archived OpenJDK General-Availability Releases

This page is an archive of previously released builds of the JDK licensed under the [GNU General Public License, version 2, with Classpath Exception](#).

WARNING: These older versions of the JDK are provided to help developers debug issues in older systems. **They are not updated with the latest security patches and are not recommended for use in production.**

11.0.2 (build 11.0.2+9)

Windows	64-bit	zip (sha256) 179 MB
Mac	64-bit	tar.gz (sha256) 174 MB
Linux	64-bit	tar.gz (sha256) 179 MB
	Source	Tags are jdk-11.0.2+9, jdk-11.0.2-ga

11.0.1 (build 11.0.1+13)

Windows	64-bit	zip (sha256) 179 MB
Mac	64-bit	tar.gz (sha256) 174 MB
Linux	64-bit	tar.gz (sha256) 179 MB
	Source	Tag is jdk-11.0.1+13

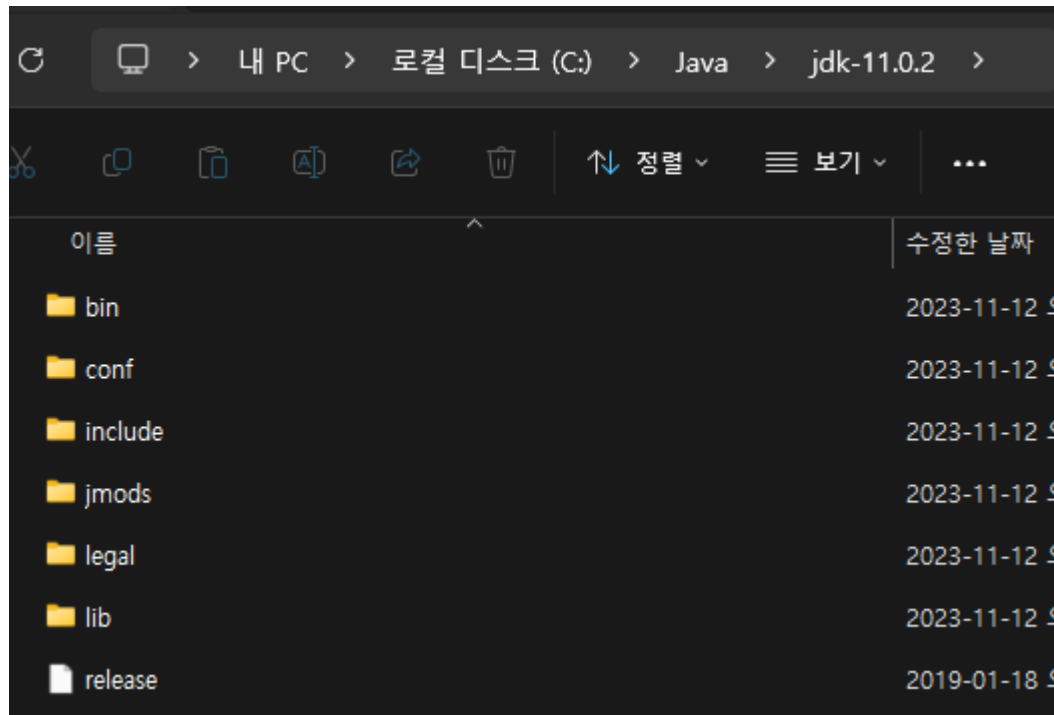
11 GA (build 11+28)

Windows	64-bit	zip (sha256) 179 MB
Mac	64-bit	tar.gz (sha256) 175 MB
Linux	64-bit	tar.gz (sha256) 179 MB
	Source	Tag is jdk-11+28

01.02 JDK 11 Install

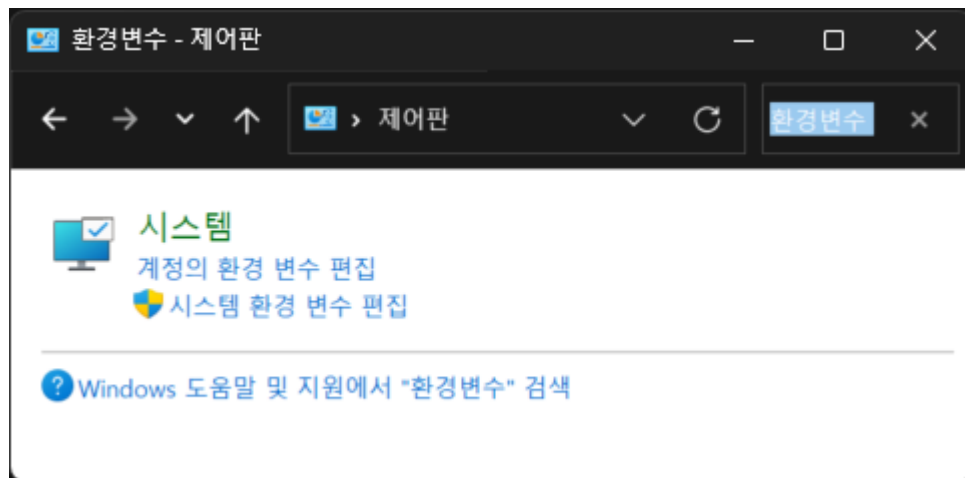
▼ jdk 설치

- C:\Java\jdk-11.0.2

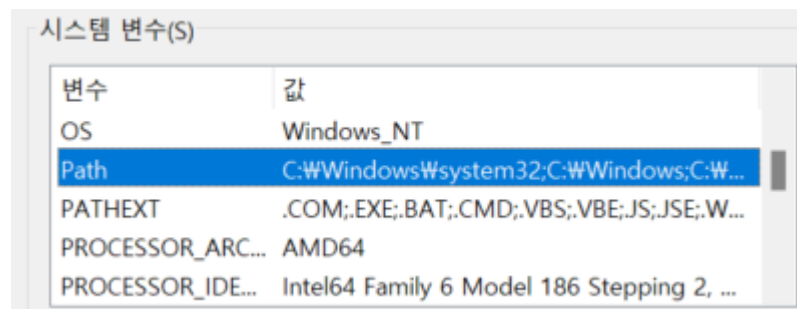
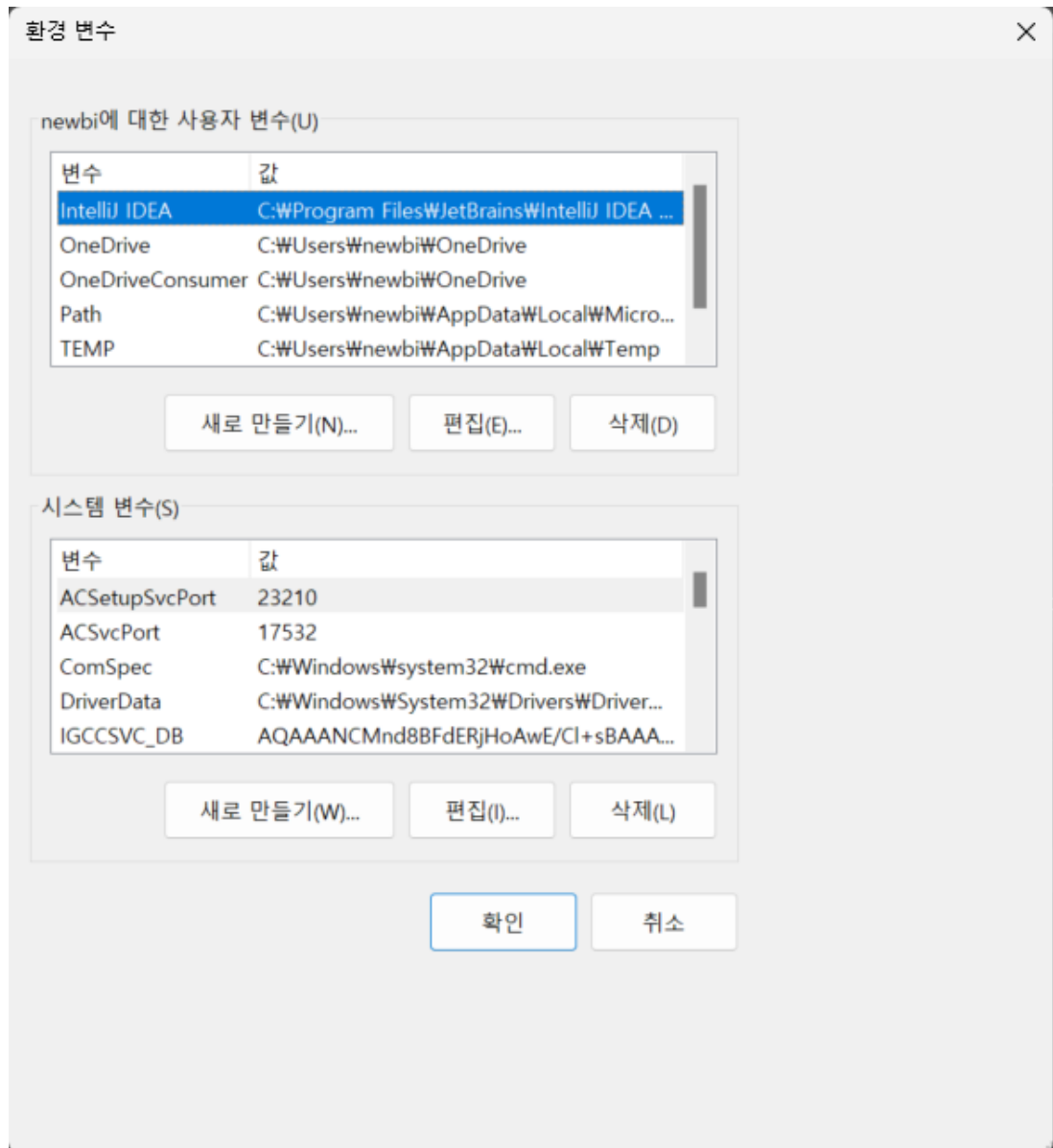


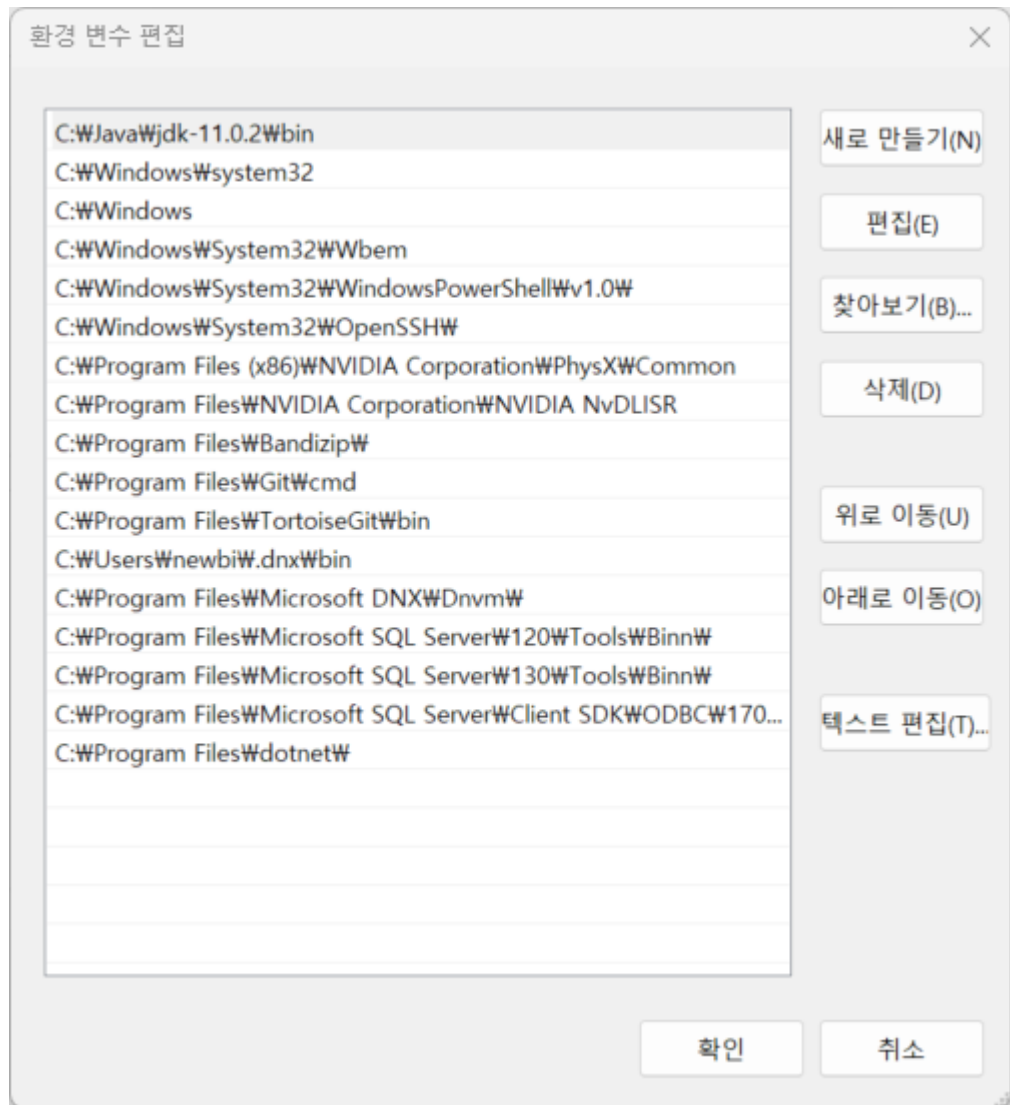
▼ 환경변수 설정

- 환경변수 편집창
 - 시스템 변수
 - Path 변수 수정
 - jdk 설치 위치 복사 및 추가
 - C:\Java\jdk-11.0.2
 - 최 상위에 위치 시킨다.
 - 차후 java 기반 프로그램 설치 시 오류 발생 가능.
 - 새 시스템 변수 추가 : JAVA_HOME
 - Tomcat 때문에 설정한다.
- 환경변수 편집창 확인 누르며 닫기
- 설명 이미지









새 시스템 변수

변수 이름(N):

변수 값(V):

시스템 변수(S)

변수	값
DriverData	C:\Windows\System32\Drivers\Driver...
IGCCSVC_DB	AQAAANCMnd8BFdERjHoAwE/Cl+sBAAA...
JAVA_HOME	C:\Java\jdk-11.0.2
NUMBER_OF_PR...	20
OS	Windows_NT

```
C:\Users\newbi>javac -version  
javac 11.0.2
```

02. STS Install

02.01 STS3 Download

- URL : <https://github.com/spring-attic/toolsuite-distribution/wiki/Spring-Tool-Suite-3>
 - Spring Tool Suite3 wiki

Looking for Spring Tool Suite 3?

Version 3 of the Spring Tool Suite is no longer under active development and does not receive any maintenance updates anymore. The last and final release can be found on the [Spring Tool Suite 3 wiki](#), alongside details of how to upgrade to **Spring Tools 4**.

- 첫 번째 URL

Latest STS3 Downloads

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-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

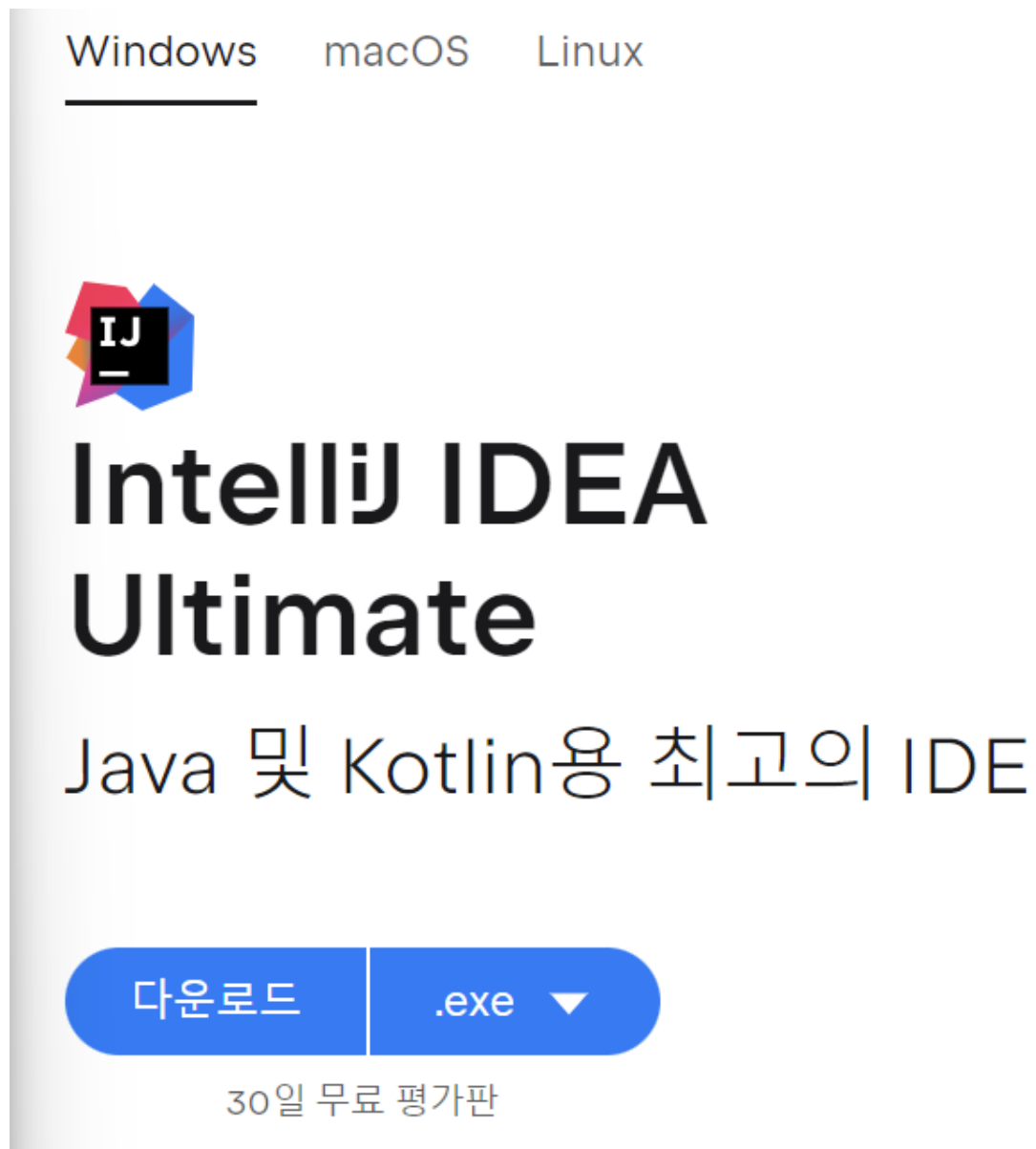
03. IntelliJ Insall

03.01 IntelliJ Ultimate Download

무료판은 Sping boot만 된다.

유료판 30일 무료판 다운로드 후 사용

- URL : <https://www.jetbrains.com/ko-kr/idea/download/?section=windows>
 - ultimate version download



04. Web server Install

04.01 Apache Tomcat 9 Download

- URL : <https://tomcat.apache.org/download-90.cgi>
 - Tomcat 9 version download

Servlet Spec	JSP Spec	EL Spec	WebSocket Spec	Authentication (JASPIC) Spec	Apache Tomcat Version	Latest Released Version	Supported Java Versions
4.0	2.3	3.0	1.1	1.1	9.0.x	9.0.82	8 and later

9.0.82

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](#))



* Java Spec

└ SE : Standard edition - 일반

└ EE : Enterprise edition - 서버 ⇒ Tomcat은 EE 기반이다.

└ ME : Micro edition - 소형 기기

05. Database Install

06. ETC

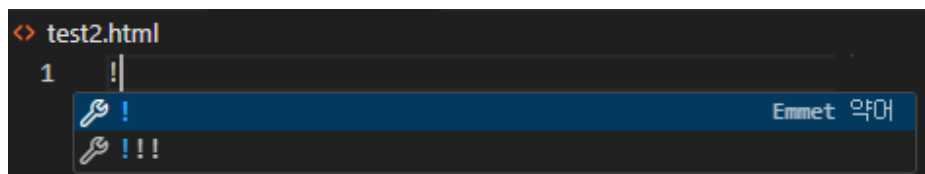
06.01 VSCode

- Expansion pack

- Korean Language Pack
- Prettier - Code formatter
- open in browser

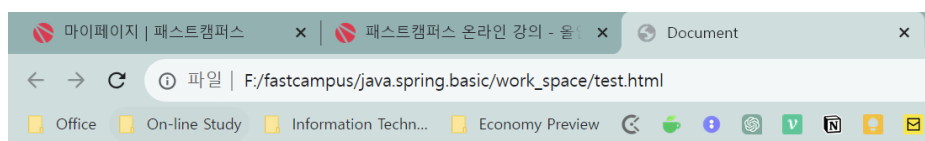
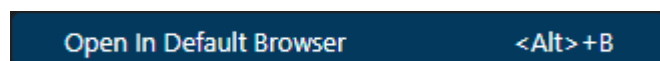
▼ 기능 테스트

- text.html file 생성
 - ! + enter



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Document</title>
</head>
<body>
  <h1>Hello!</h1>
</body>
</html>
```

- Art + B



Hello!

- indent-rainbow
- Auto Rename Tag

