

* Java JDK 설치방법

1. java.sun.com 접속 → Java SE 클릭

The screenshot shows the Oracle Java website. At the top, there's a navigation bar with 'Menu', 'ORACLE', 'Search', 'Sign In', 'Country/Region', and 'Contact'. Below this is a banner for 'Oracle Technology Network / Java'. The main content area features a large blue cloud graphic on the left and a dark blue box on the right with the text 'SPECIAL OFFER: CREATE YOUR FREE ORACLE CLOUD ACCOUNT TODAY'. To the right of this is a 'Software Downloads' section with a red header. Under 'Top Downloads', 'Java SE' is highlighted with a red box. Other downloads listed include Java EE and GlassFish, JavaFX, Java Card, JDeveloper and ADF, Enterprise Pack for Eclipse, NetBeans IDE, and Pre-Built VM for Java Devs. Under 'New Downloads', there are links for Java SE 12.0.2, Java SE 11.0.4, Java SE 8 Update 221, Java CPU and PSU Releases Explained, and Java Card 3.1. Below the main content is a 'What's New' section with a Java logo and the text 'Java in the Cloud: Rapidly develop and deploy Java business applications in the cloud. Start for free.' At the bottom, there are four columns of links: 'Essential Links', 'Developer Spotlight', 'Blogs', and 'Technologies'. The 'Essential Links' column includes links like 'About Us/Become a Member', 'Java APIs', 'Technical Articles', 'New to Java', 'Java Certification & Training', 'Java Bug Database', 'The Java Source Blog', '@Java', 'Java Developer Newsletter', 'Java Magazine', 'Demos and Videos', 'Community Platform', 'Java User Groups', 'Java Champions', 'Java Community Process', 'Adopt A JSR', 'Facebook | Forums', and 'Events | Virtual Technology Summit'. The 'Developer Spotlight' column includes links like 'Java EE—the Most Lightweight Enterprise Framework?', 'Modular and Reusable Java EE Architecture with Docker', 'Special Offer: Oracle Cloud for Java', 'The Java Trove: Part II', 'Lambda Usage with Collections and Method References', 'Shareloc: Share Your Location with Friends Using the Cloud', 'The Java Trove: Part I', 'Getting Started with Lambda Expressions', 'Filters in RESTful Java', 'Getting Onboard Oracle Java Cloud Service', and 'Migrating from Desktop to Cloud-Native Web Applications'. The 'Blogs' column includes links like '2019 Duke's Choice Award Nominations', 'Java Magazine on Containers', 'Java Magazine on Lightweight Frameworks', '30 New Java Champions Confirmed in 2018', 'Oracle JET Program at Oracle OpenWorld/Oracle Code One 2018', 'Five Typical Responses From Oracle JET's Unofficial World Tour', 'Oracle as an Agent of Social Change', 'My OpenWorld/JavaOne 2017 Session Schedule', and 'From oJNavigationList to oJTrain'. The 'Technologies' column includes links like 'Java SE', 'Java SE Subscription', 'Java Embedded', 'Java EE', 'Java ME', 'JavaFX', 'Java Card', 'Java TV', 'Java DB', and 'Developer Tools'. There is also a 'NightHacking Videos' section with a logo for 'I AM A NIGHTHACKER' and 'NIGHTHACKING.COM'.

우측 상단에 Top Downloads 중 Java SE 클릭

2. 1.8버전 JDK 다운로드

Looking for Oracle OpenJDK builds?

- **Oracle Customers and ISVs targeting Oracle LTS releases:** Oracle JDK is Oracle's supported Java SE version for customers and for developing, testing, prototyping or demonstrating your Java applications.
- **End users and developers looking for free JDK versions:** [Oracle OpenJDK](#) offers the same features and performance as Oracle JDK under the GPL license.

To Learn more about these options visit [Oracle JDK Releases for Java 11 and Later](#)

Java SE 11.0.4 (LTS)

Java SE 11.0.4 is the latest release for the Java SE 11 Platform

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

Oracle JDK

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Java SE 8u221

Java SE 8u221 includes important bug fixes. Oracle strongly recommends that all Java SE 8 users upgrade to this release.

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- [Installation Instructions](#)
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JRE

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Which Java package do I need?

- **Software Developers: JDK** (Java SE Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.
- **Administrators running applications on a server: Server JRE** (Server Java Runtime Environment) For deploying Java applications on servers. Includes tools for JVM monitoring and tools commonly required for server applications, but does not include browser integration (the Java plug-in), auto-update, nor an installer. [Learn more](#) ▶
- **End user running Java on a desktop: JRE:** (Java Runtime Environment). Covers most end-users needs. Contains everything required to run Java applications on your system.

Java SE 8U 버전 다운로드 함

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

Java Magazine

The Oracle JDK License has changed for releases starting April 16, 2019.

The new [Oracle Technology Network License Agreement for Oracle Java SE](#) is substantially different from prior Oracle JDK licenses. The new license permits certain uses, such as personal use and development use, at no cost -- but other uses authorized under prior Oracle JDK licenses may no longer be available. Please review the terms carefully before downloading and using this product. An FAQ is available [here](#).

Commercial license and support is available with a low cost [Java SE Subscription](#).

Oracle also provides the latest OpenJDK release under the open source [GPL License](#) at [jdk.java.net](#).

See also:

- [Java Developer Newsletter](#): From your Oracle account, select **Subscriptions**, expand **Technology**, and subscribe to **Java**.
- [Java Developer Day](#) hands-on workshops (free) and other events
- [Java Magazine](#)

JDK 8u221 [checksum](#)

Java SE Development Kit 8u221

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Product / File Description	File Size	Download
Linux ARM 32 Hard Float ABI	72.9 MB	jdk-8u221-linux-arm32-vfp-hflt.tar.gz
Linux ARM 64 Hard Float ABI	69.81 MB	jdk-8u221-linux-arm64-vfp-hflt.tar.gz
Linux x86	174.18 MB	jdk-8u221-linux-i586.rpm
Linux x86	189.03 MB	jdk-8u221-linux-i586.tar.gz
Linux x64	171.19 MB	jdk-8u221-linux-x64.rpm
Linux x64	186.06 MB	jdk-8u221-linux-x64.tar.gz
Mac OS X x64	252.52 MB	jdk-8u221-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	132.99 MB	jdk-8u221-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	94.23 MB	jdk-8u221-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	133.66 MB	jdk-8u221-solaris-x64.tar.Z
Solaris x64	91.95 MB	jdk-8u221-solaris-x64.tar.gz
Windows x86	202.73 MB	jdk-8u221-windows-i586.exe
Windows x64	215.35 MB	jdk-8u221-windows-x64.exe

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Linux ARM 64 Hard Float ABI	9.08 MB	jdk-8u221-linux-arm64-vfp-hflt-demos.tar.gz
Linux x86	56.42 MB	jdk-8u221-linux-i586-demos.rpm
Linux x86	56.28 MB	jdk-8u221-linux-i586-demos.tar.gz
Linux x64	56.52 MB	jdk-8u221-linux-x64-demos.rpm
Linux x64	56.38 MB	jdk-8u221-linux-x64-demos.tar.gz

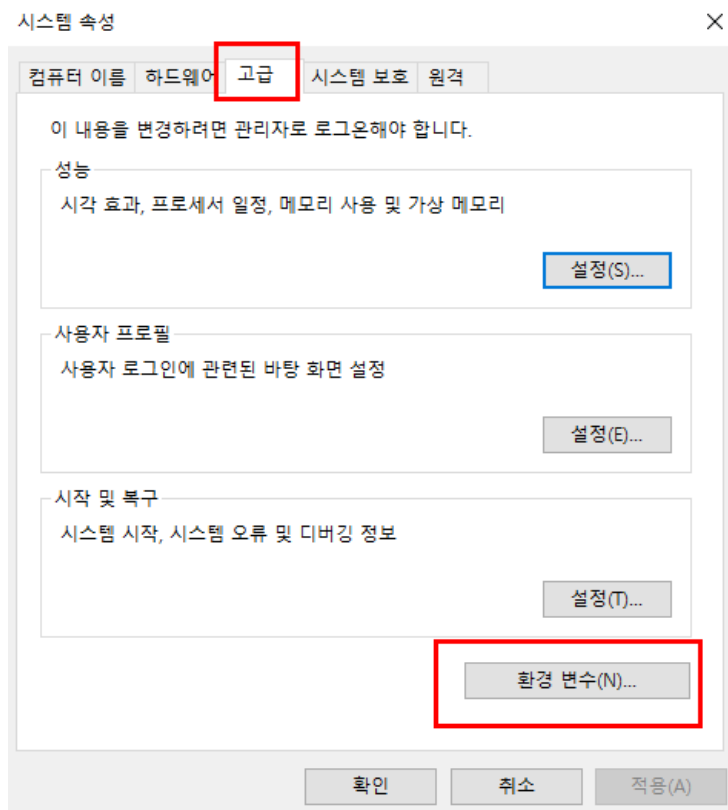
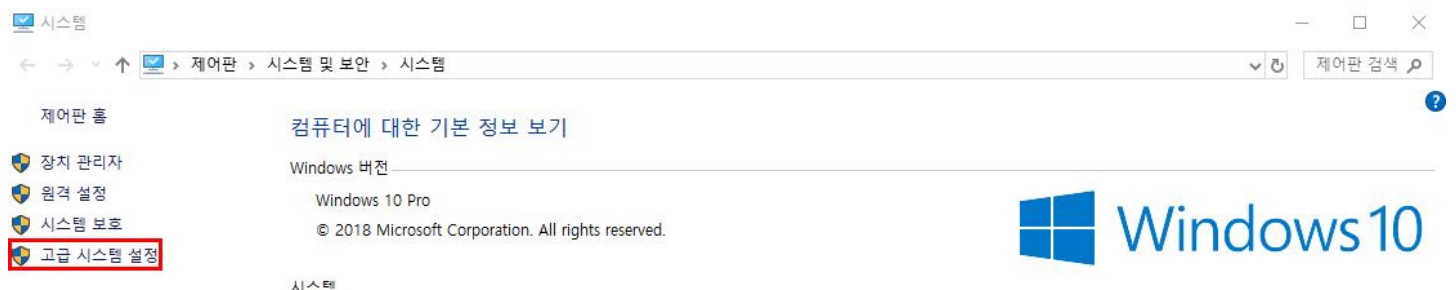
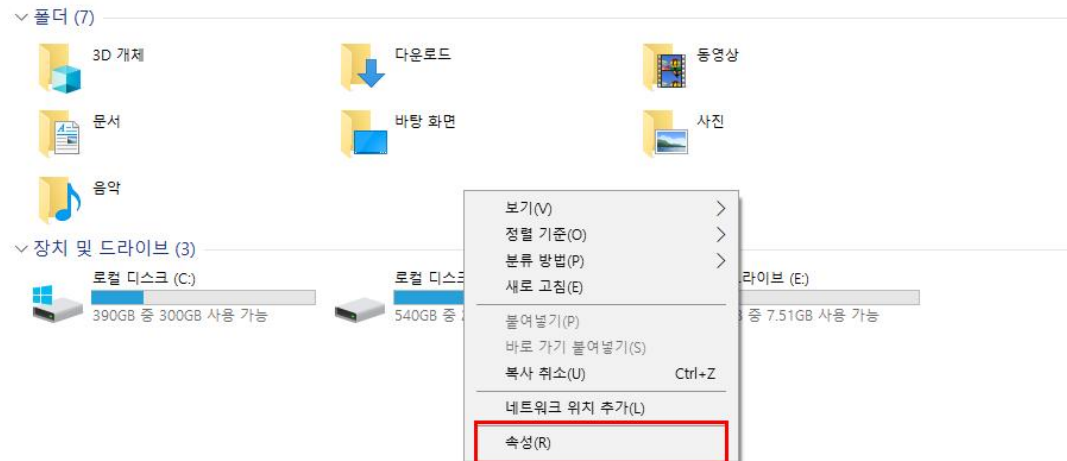
- [Java APIs](#)
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- [Java.com](#)

* 다운로드 시 오라클 계정 로그인が必要です. 회원가입 절차 완료 후 다운받으세요.


KG 아이티뱅크 평생교육원

4. Java 환경 변수 설정

- 내 컴퓨터 오른쪽 클릭 → 설정 → 고급 시스템 설정 → 고급 → 환경 변수
- 윈도우 10의 경우 내PC에서 마우스 우측 클릭 후 속성에 들어감



- 시스템 변수 → 새로 만들기에 아래 그림과 같이 입력.

시스템 변수 편집

변수 이름(N):

변수 값(V):

디렉터리 찾아보기(D)... 파일 찾아보기(F)...

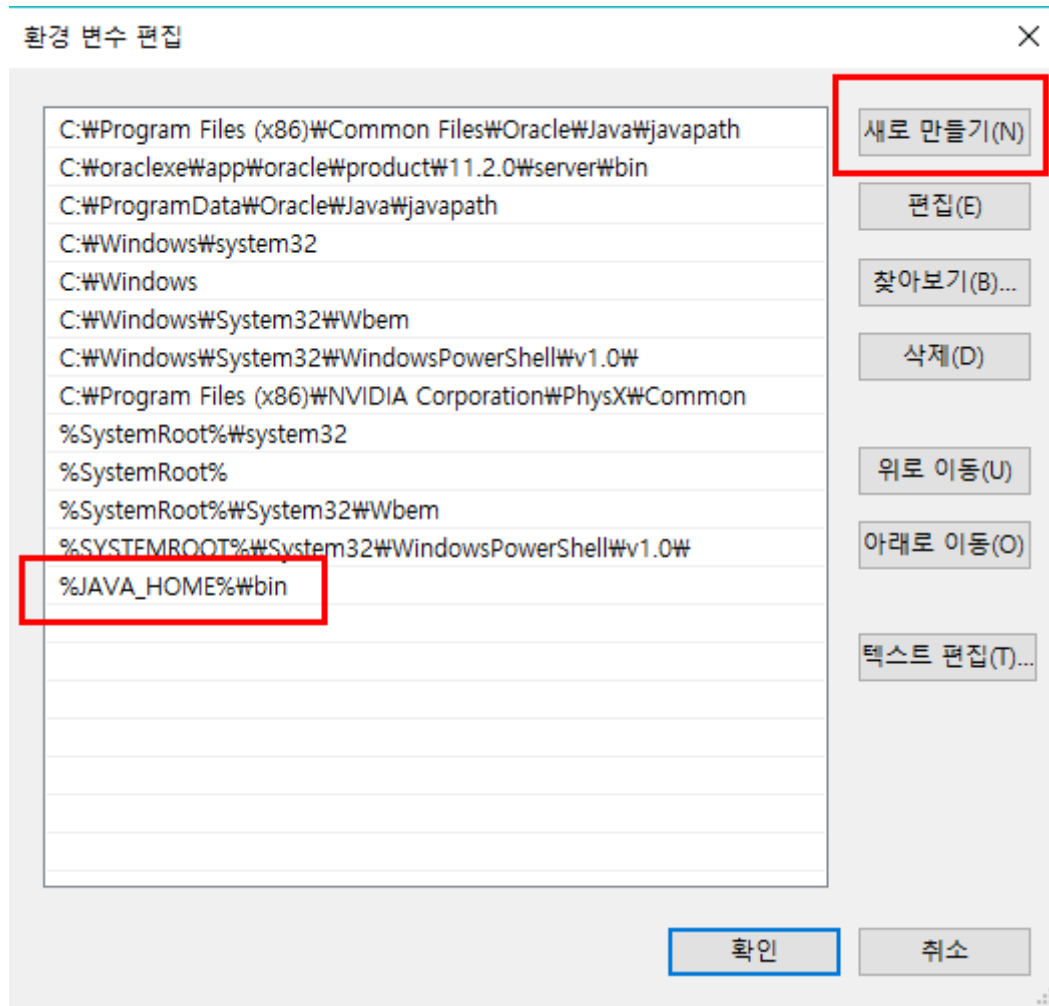
새로 만들기(N)... 편집(E)... 삭제(D)

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

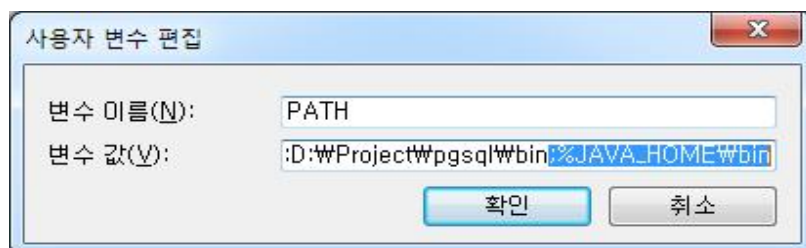
- Path 항목 더블클릭 → %JAVA_HOME%\bin 입력

- window 10 기준



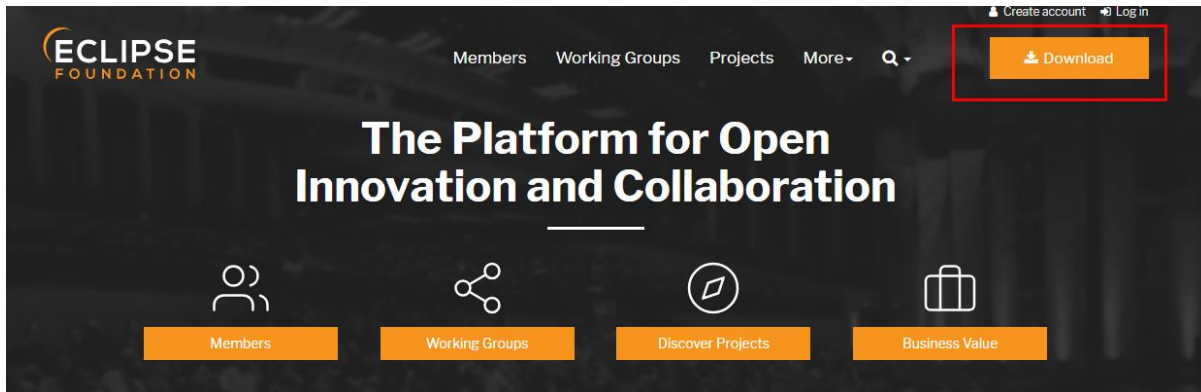
- window 7 기준

- ;%JAVA_HOME%\bin 입력 (앞에 세미콜론에 주의)

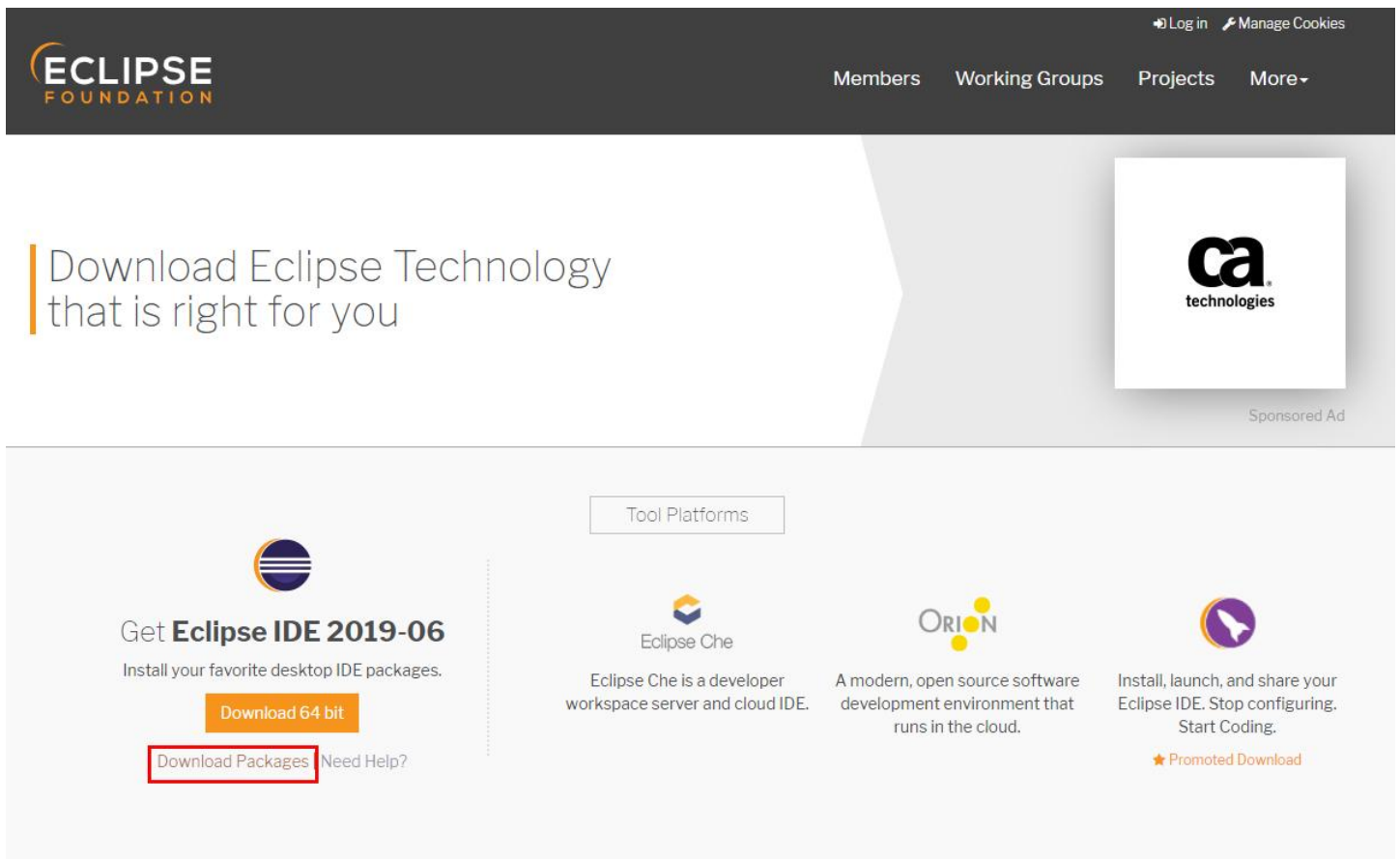


* 이클립스 설치

1. eclipse.org 접속 → download 클릭



2. Downlode Packages 클릭



3. Java EE Developer 다운로드 (Eclipse IDE for Enterprise JAVA Developers win 64bit)

Home / Downloads / Packages / Release / Eclipse IDE 2019-06 / R

Eclipse Installer Eclipse Packages Eclipse Developer Builds ▾

Try the Eclipse **Installer** 2019-06 R

The easiest way to install and update your Eclipse Development Environment.

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An IDE for C/C++ developers with Mylyn integration.

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Linux 64-bit

Eclipse IDE for Enterprise Java Developers

346 MB 263,959 DOWNLOADS

Tools for Java developers creating Enterprise Java and Web applications, including a Java IDE, tools for Enterprise Java, JPA, JSF, Mylyn, Maven, Git and more.

[Click here to file a bug against Eclipse Web Tools Platform.](#)
[Click here to file a bug against Eclipse Platform.](#)
[Click here to file a bug against Maven integration for web projects.](#)

Windows 64-bit
Mac Cocoa 64-bit
Linux 64-bit

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* 본인 컴퓨터 OS에 따라 Windows / Mac / Linux 별로 다운 받습니다.

4. Download 클릭 (속도가 느릴 경우 Select Another Mirror 클릭)


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All downloads are provided under the terms and conditions of the Eclipse Foundation Software User Agreement unless otherwise specified.



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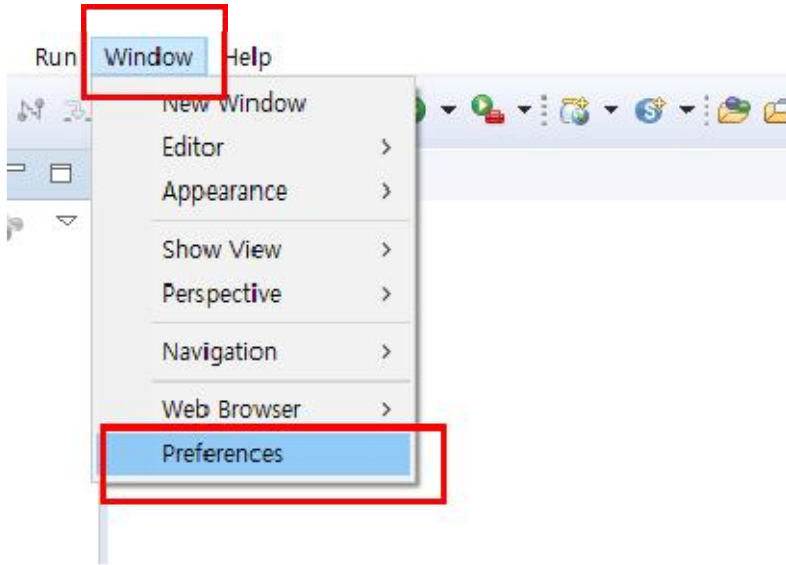
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- Direct link to file (download starts immediately from best mirror)

Related Links

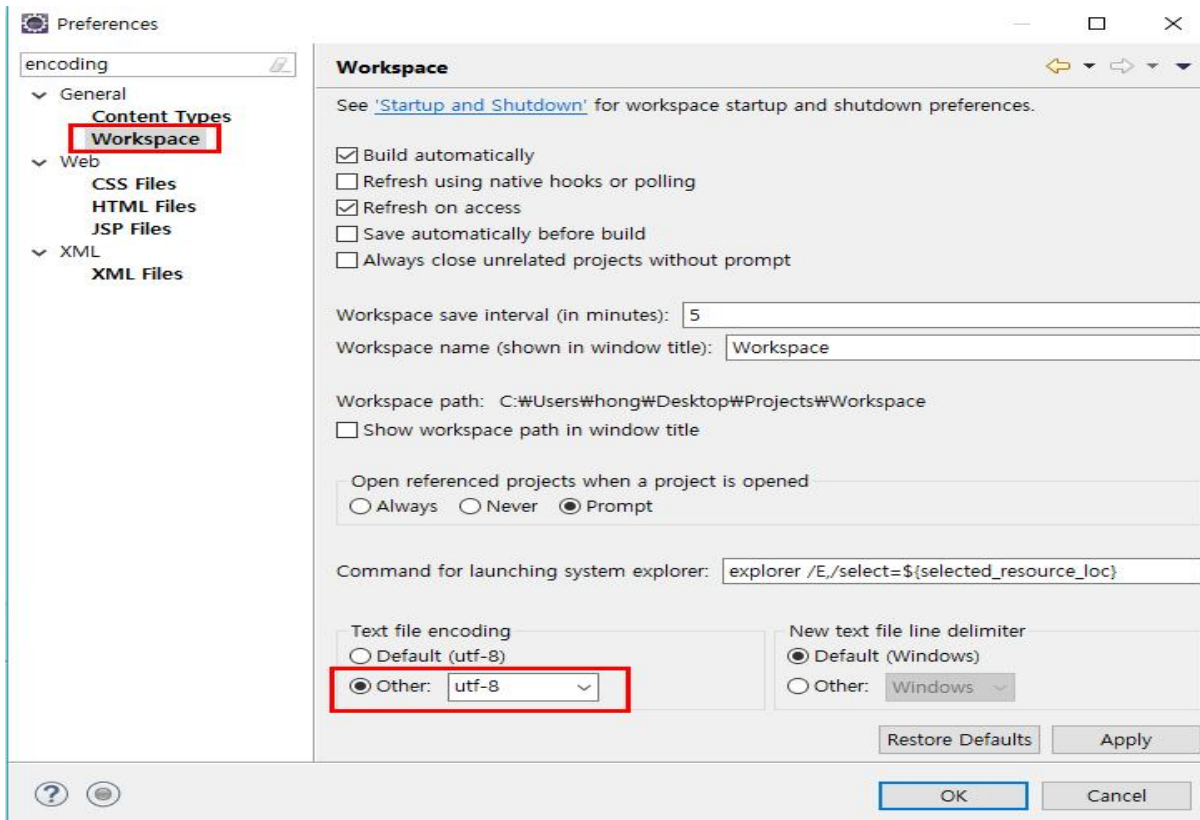
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* 이클립스 실행 후 한글 인코딩

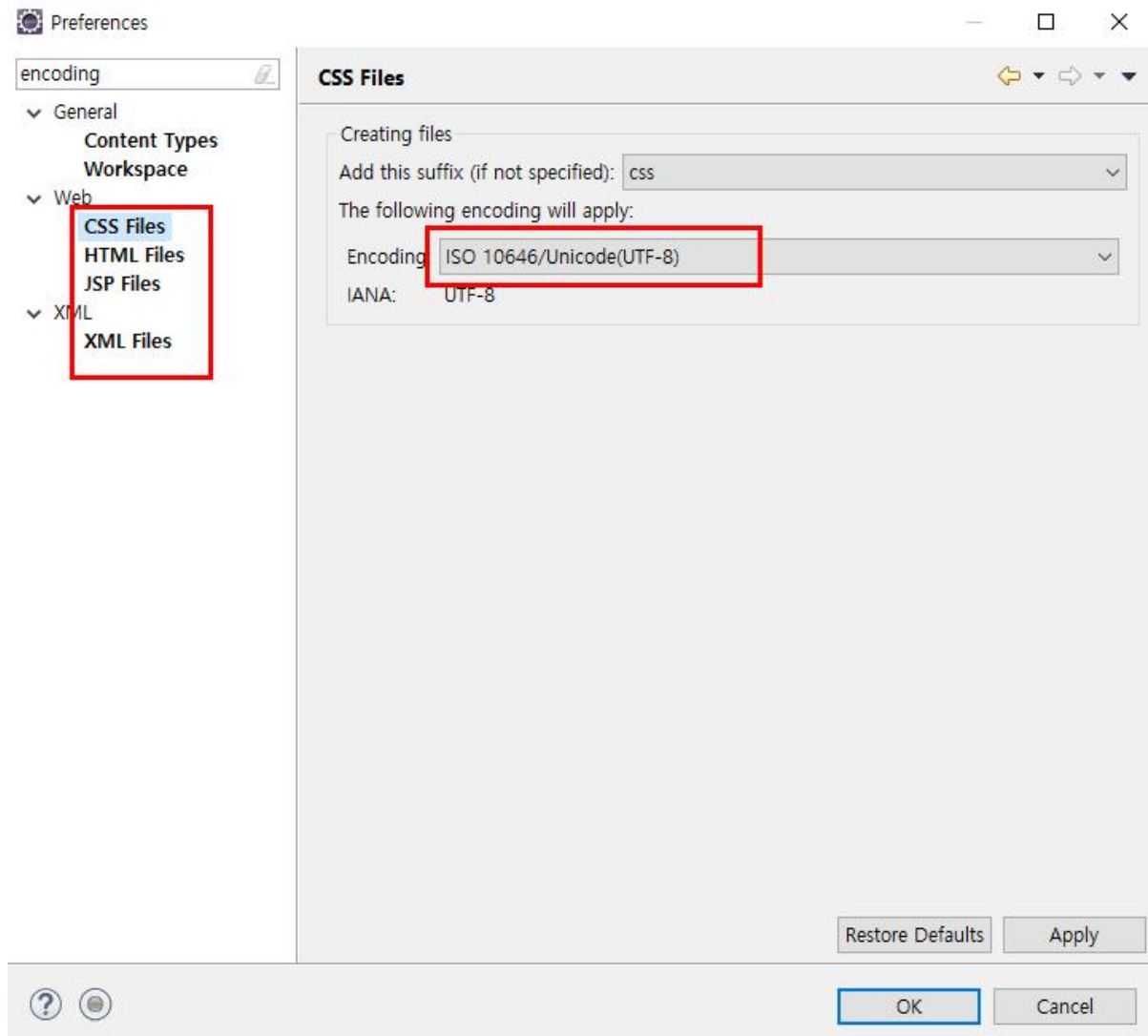
1. window → preference 클릭



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

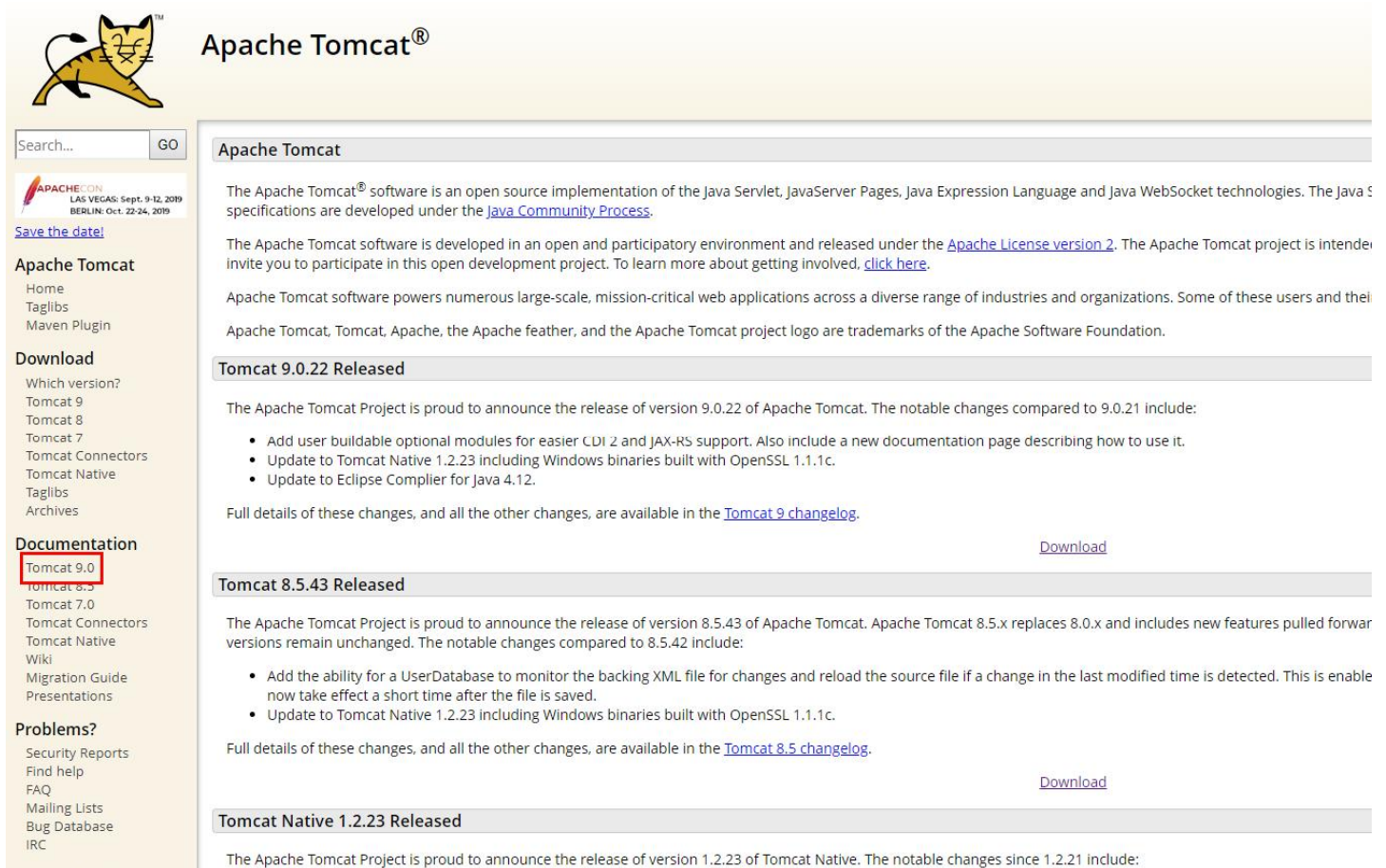


3. 웹 프로그래밍의 경우 Css, JSP, HTML, XML도 모두 각각 변경



* Tomcat 설치

1. tomcat.apache.org 접속 → 좌측 탭에 Tomcat 9 클릭



The screenshot shows the Apache Tomcat website. On the left, there is a navigation menu with the following items: Home, Taglibs, Maven Plugin, Download, Documentation (highlighted with a red box), and Problems?. Under 'Documentation', 'Tomcat 9.0' is selected. The main content area displays the 'Tomcat 9.0.22 Released' announcement, detailing the new features and updates for this version. The announcement includes a list of changes such as adding user buildable optional modules for easier CDI 2 and JAX-RS support, updating Tomcat Native to 1.2.23, and updating the Eclipse Compiler for Java to 4.12. A 'Download' link is provided at the end of the announcement.

Apache Tomcat®

Search... GO

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
Tomcat 7.0
Tomcat Connectors
Tomcat Native
Wiki
Migration Guide
Presentations

Problems?

Security Reports
Find help
FAQ
Mailing Lists
Bug Database
IRC

Apache Tomcat

The Apache Tomcat® software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket technologies. The Java SE 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 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 logos are listed on the [Apache Tomcat website](#). Apache Tomcat, Tomcat, Apache, the Apache feather, and the Apache Tomcat project logo are trademarks of the Apache Software Foundation.

Tomcat 9.0.22 Released

The Apache Tomcat Project is proud to announce the release of version 9.0.22 of Apache Tomcat. The notable changes compared to 9.0.21 include:

- Add user buildable optional modules for easier CDI 2 and JAX-RS support. Also include a new documentation page describing how to use it.
- Update to Tomcat Native 1.2.23 including Windows binaries built with OpenSSL 1.1.1c.
- Update to Eclipse Compiler for Java 4.12.

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

[Download](#)

Tomcat 8.5.43 Released

The Apache Tomcat Project is proud to announce the release of version 8.5.43 of Apache Tomcat. Apache Tomcat 8.5.x replaces 8.0.x and includes new features pulled forward from 8.5.x. Versions 8.0.x and 8.5.x remain unchanged. The notable changes compared to 8.5.42 include:

- Add the ability for a UserDatabase to monitor the backing XML file for changes and reload the source file if a change in the last modified time is detected. This is enabled by default and now take effect a short time after the file is saved.
- Update to Tomcat Native 1.2.23 including Windows binaries built with OpenSSL 1.1.1c.

Full details of these changes, and all the other changes, are available in the [Tomcat 8.5 changelog](#).

[Download](#)

Tomcat Native 1.2.23 Released

The Apache Tomcat Project is proud to announce the release of version 1.2.23 of Tomcat Native. The notable changes since 1.2.21 include:

2. 9.0 버전 core → zip 클릭 후 압축 해제



Apache Tomcat®



APACHECON
LAS VEGAS: Sept. 9-12, 2019
BERLIN: Oct. 22-24, 2019

[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
- Tomcat 7.0
- Tomcat Connectors
- Tomcat Native
- Wiki
- Migration Guide
- Presentations

Problems?

- Security Reports
- Find help
- FAQ
- Mailing Lists
- Bug Database
- IRC

Get Involved

- Overview

Tomcat 9 Software Downloads

Welcome to the Apache Tomcat® 9.x software download page. This page provides download links for obtaining the latest

Quick Navigation

[KEYS](#) | [9.0.22](#) | [Browse](#) | [Archives](#)

Release Integrity

You **must** [verify](#) the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature checksums for every release file. After you download the file, you should calculate a checksum for your download, and m

Mirrors

You are currently using <http://apache.tt.co.kr/>. If you encounter a problem with this mirror, please select another mirror

Other mirrors:

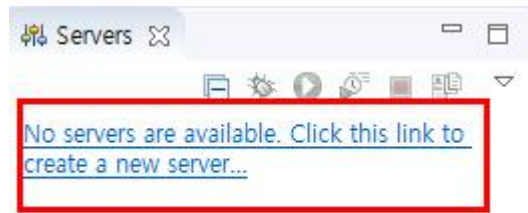
9.0.22

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

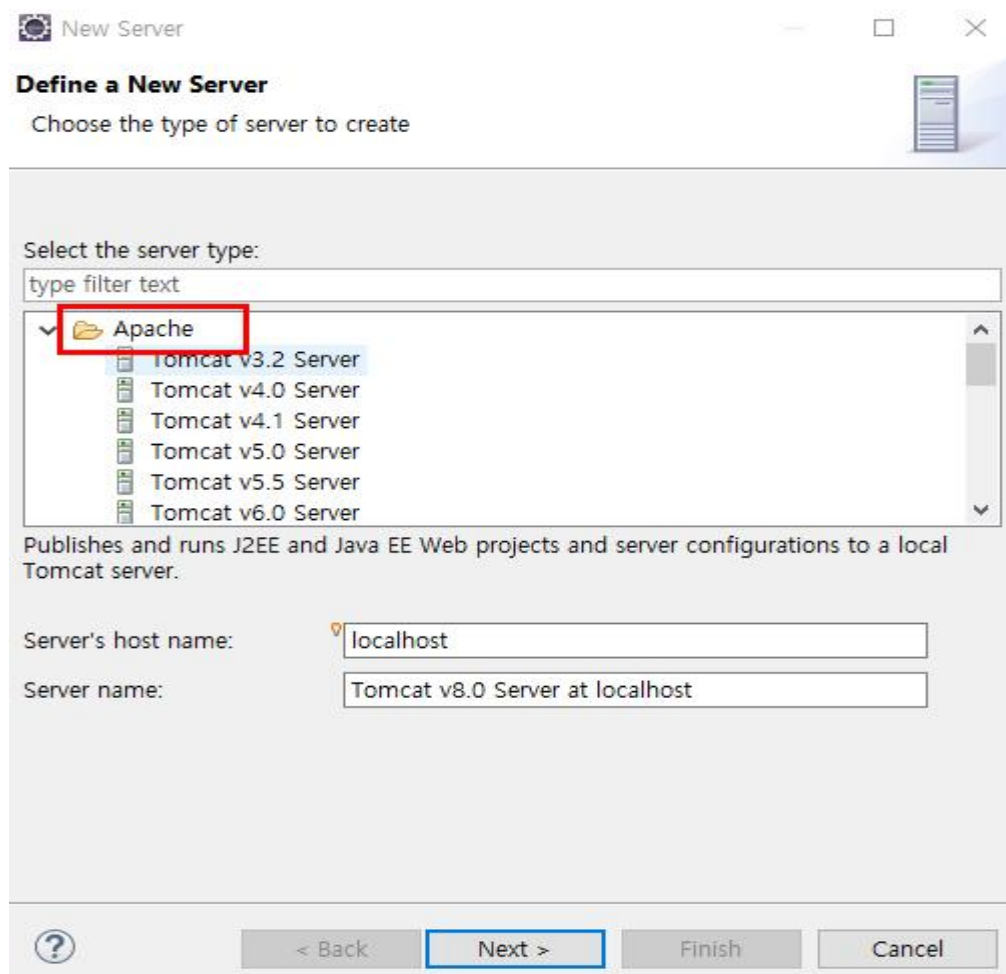
Binary Distributions

- 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 \(pgp, sha512\)](#)

3. 이클립스 servers 탭에서 서버생성 클릭



4. Apache 클릭



5. Tomcat 9.0 클릭 후 next

Select the server type:

type filter text

- Tomcat v6.0 Server
- Tomcat v7.0 Server
- Tomcat v8.0 Server**
- Tomcat v8.5 Server
- Tomcat v9.0 Server

> Basic

▼ Cloud Foundry

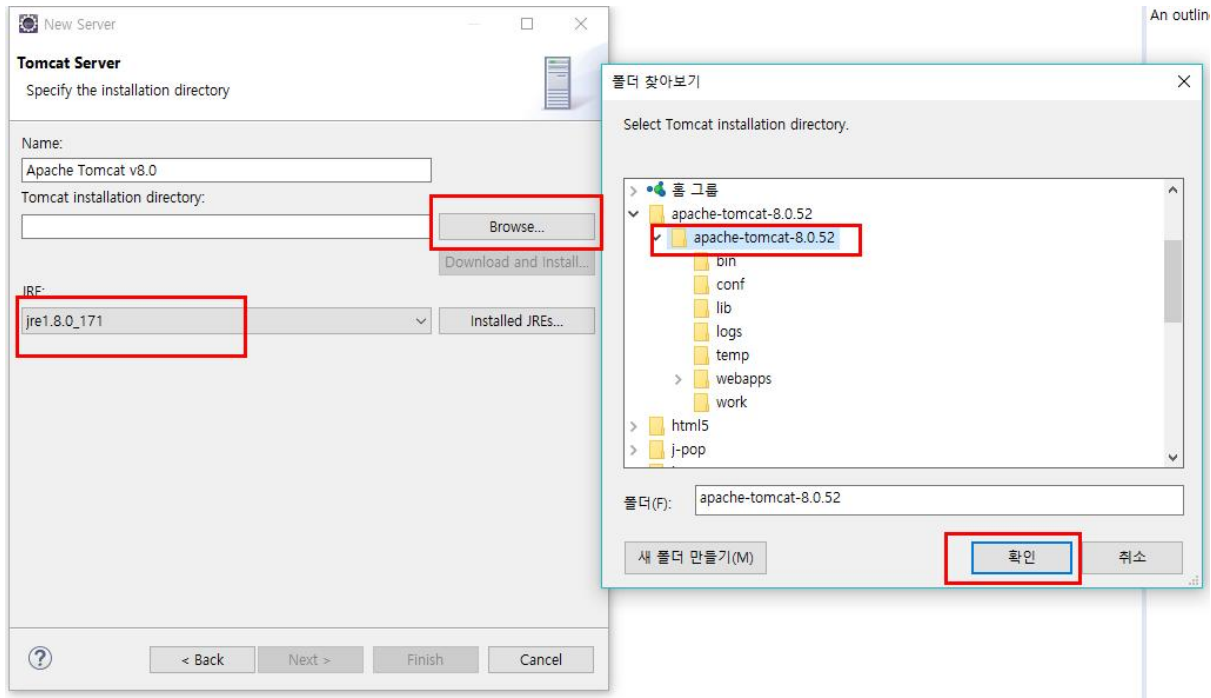
Publishes and runs J2EE and Java EE Web projects and server configurations to a local Tomcat server.

Server's host name: localhost

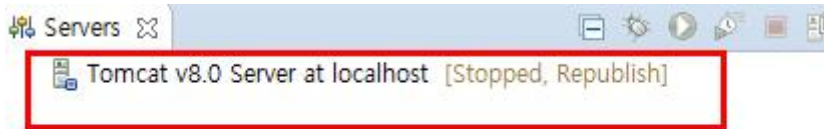
Server name: Tomcat v8.0 Server at localhost

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)

Overview

General Information
Specify the host name and other common settings.

Server name: Tomcat v8.0 Server at localhost
Host name: localhost
Runtime Environment: Apache Tomcat v8.0
Configuration path: /Servers/Tomcat v8.0 Server at localhost-config
[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: C:\Users\hong\Desktop\apache-tomcat-8.0.52\apache-tomcat-8.0.52
[Set deploy path to the default value \(currently set\)](#)
Deploy path: \wpwebapps

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)

Publishing

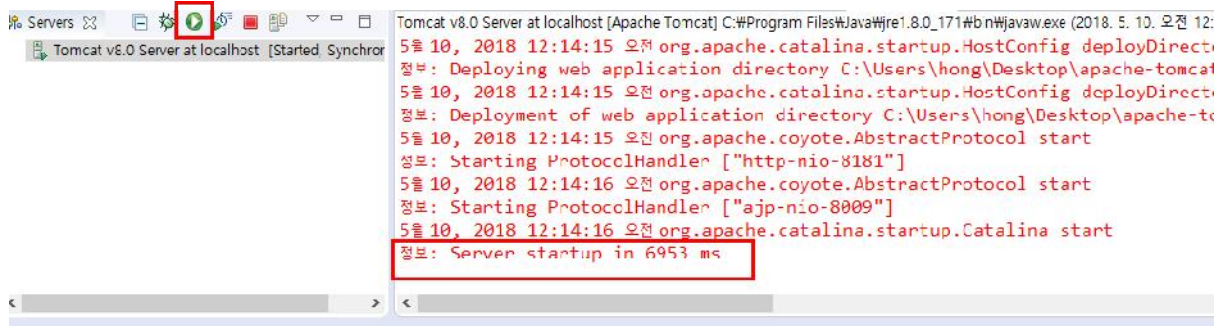
Timeouts

Ports
Modify the server ports.

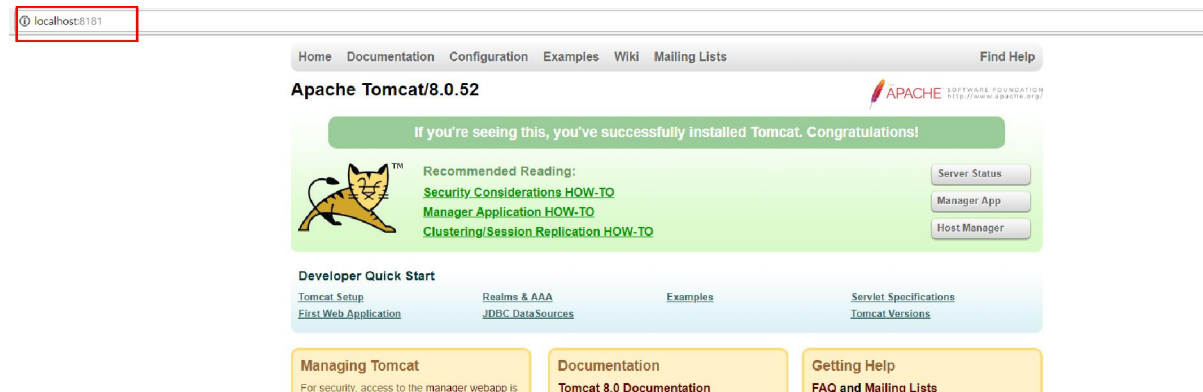
Port Name	Port Number
Tomcat admin port	8005
HTTP/1.1	8181
AJP/1.3	8009

MIME Mappings

9. run버튼을 눌러 서버실행 → startup 메시지가 뜨면 서버 정상 실행



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

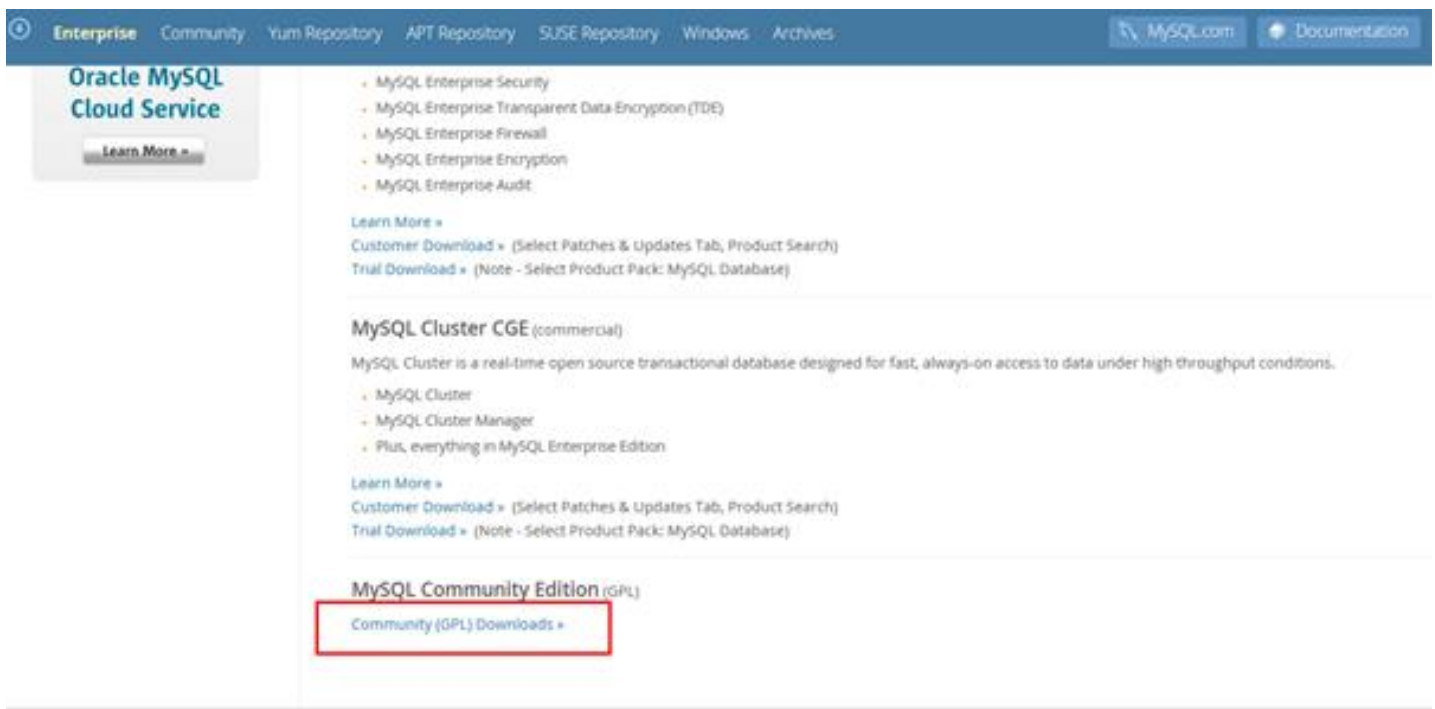


* MySQL 설치 진행

1. mysql.com에 접속 → DOWNLOAD 링크 클릭



2. MYSQL Community Edition(GPL) 다운로드



3. MySQL on Windows Installer 다운로드

MySQL Connectors
MySQL offers standard database driver connectivity for using MySQL with applications and tools that are compatible with industry standards ODBC and JDBC.
[DOWNLOAD](#)

MySQL on Windows (Installer & Tools)
(Current Generally Available Release: 5.7.21)
MySQL provides you with a suite of tools for developing and managing MySQL-based business critical applications on Windows.
[DOWNLOAD](#)

MySQL Yum Repository
MySQL provides a YUM software repository to simplify installing and updating MySQL products on a variety of Linux operating systems.
[DOWNLOAD](#)

4. MySQL Installer 클릭

MySQL on Windows

MySQL provides you with a suite of tools for developing and managing business critical applications on Windows.

MySQL Installer

MySQL Installer provides an easy to use, wizard-based installation experience for all MySQL software on Windows.

MySQL Connectors

MySQL offers industry standard database driver connectivity for using MySQL with applications and tools.

MySQL Workbench

MySQL Workbench provides DBAs and developers an integrated tools environment for database design, administra

5. Download 클릭

MySQL Installer 5.7.21

Select Operating System:
Microsoft Windows

Looking for previous GA versions?

Operating System	Version	Size	Action
Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-5.7.21.0.msi)	5.7.21	18.6M	Download
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-5.7.21.0.msi)	5.7.21	370.8M	Download

MD5: bb2b0571db135bda15f636386c30a422 | Signature

MD5: 0ca5dbc3b37c577eba0e42ee99bddfd7 | Signature

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

6. No thanks 클릭

Begin Your Download

mysql-installer-community-5.7.21.0.msi

Login Now or Sign Up for a free account.

An Oracle Web Account provides you with the following advantages:

- Fast access to MySQL software downloads
- Download technical White Papers and Presentations
- Post messages in the MySQL Discussion Forums
- Report and track bugs in the MySQL bug system
- Comment in the MySQL Documentation

Login »

using my Oracle Web account

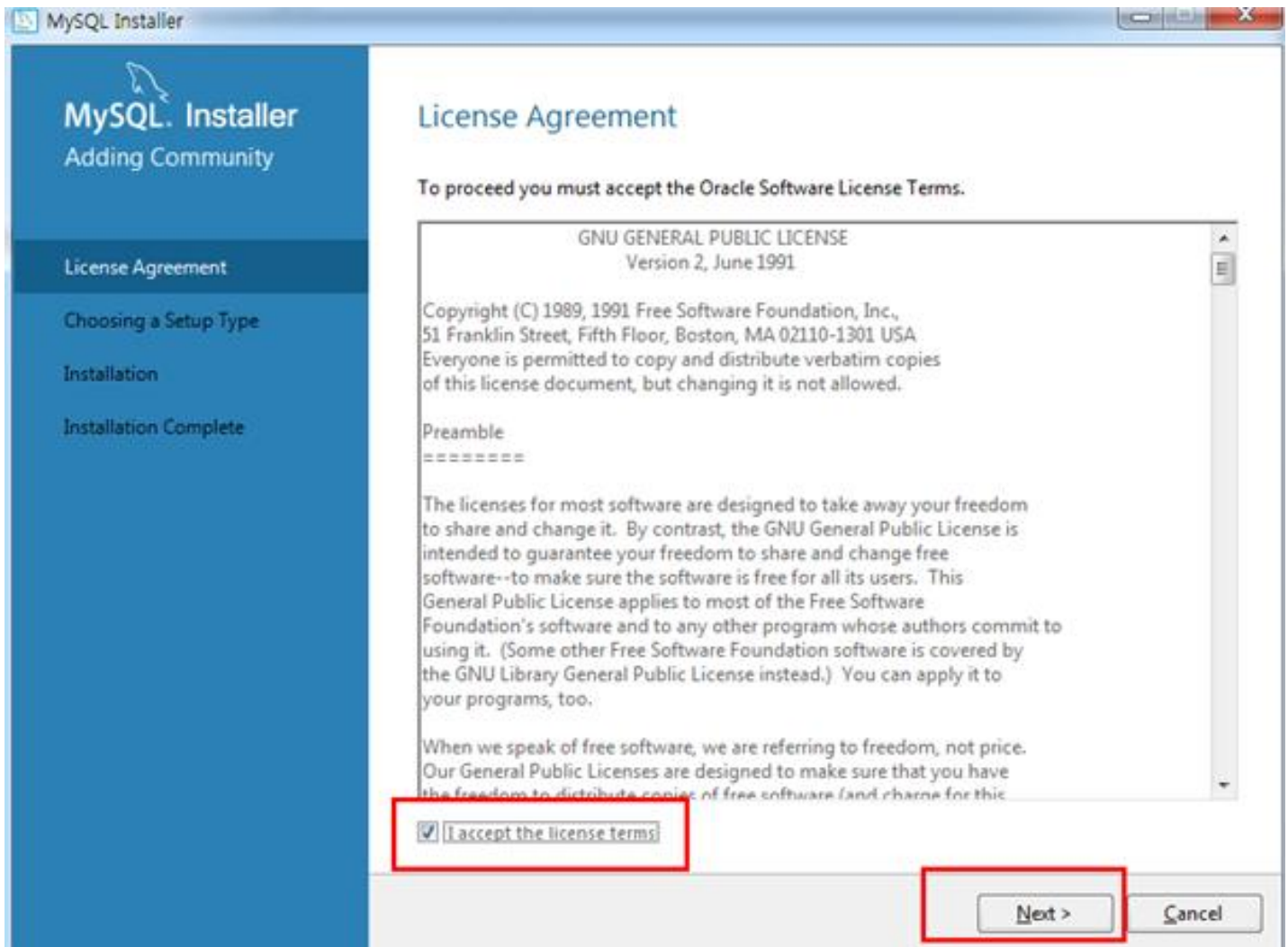
Sign Up »

for an Oracle Web account

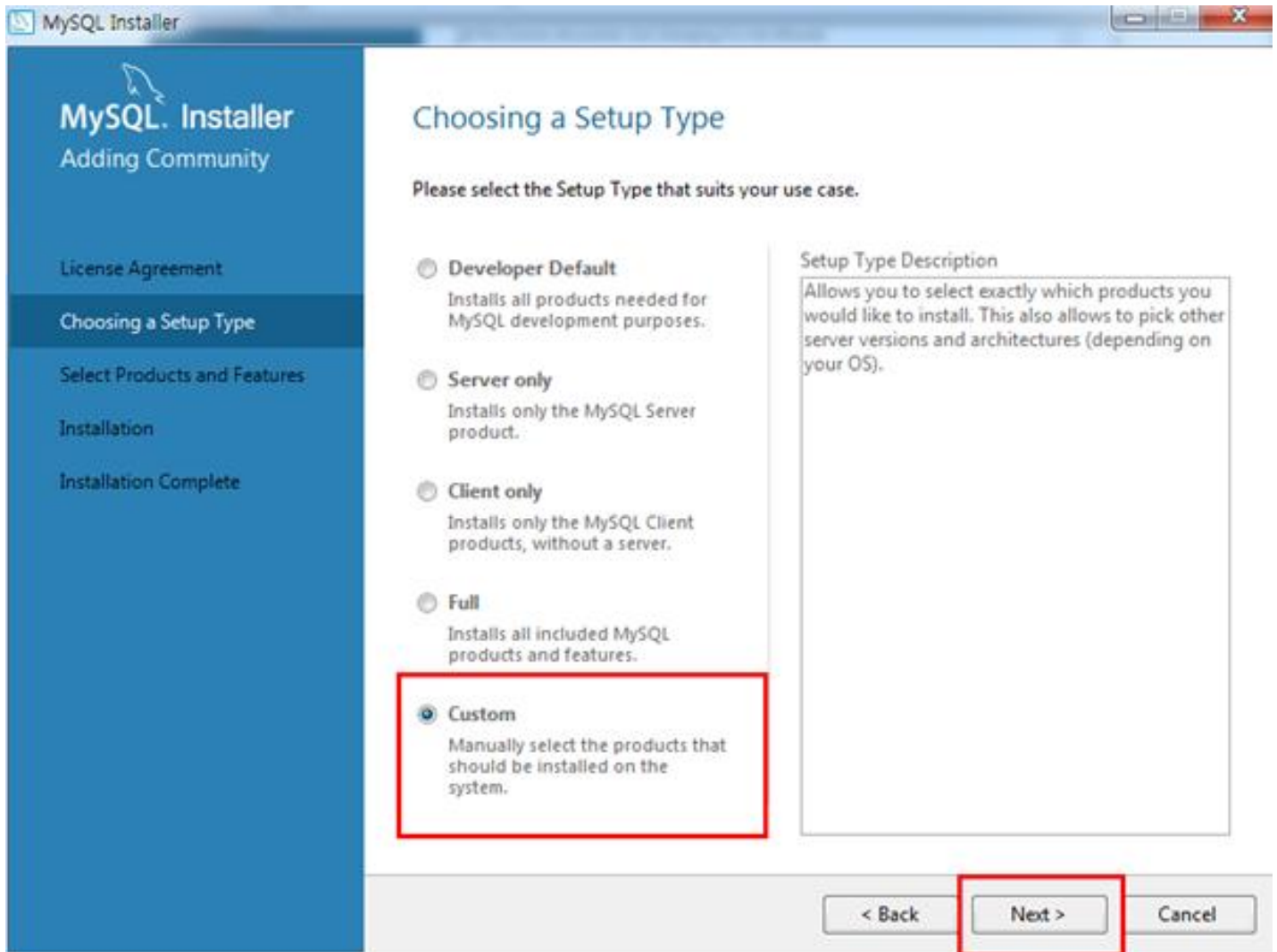
MySQL.com is using Oracle SSO for authentication. If you already have an Oracle Web account, click the Login link. Otherwise, you can signup for a free account by clicking the Sign Up link and following the instructions.

No thanks, just start my download.

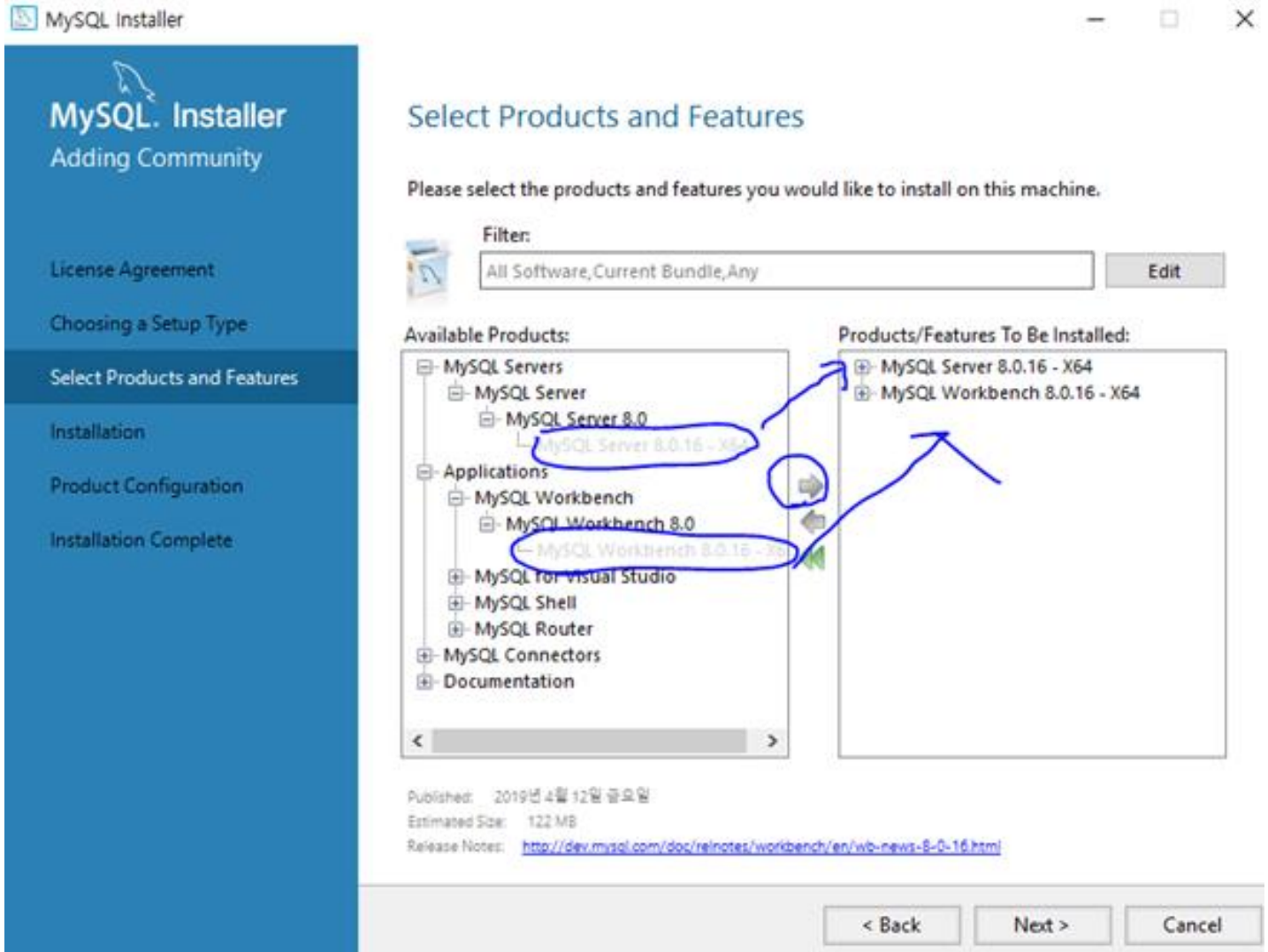
7. 설치 파일 실행 → 라이선스 동의 후 Next 클릭



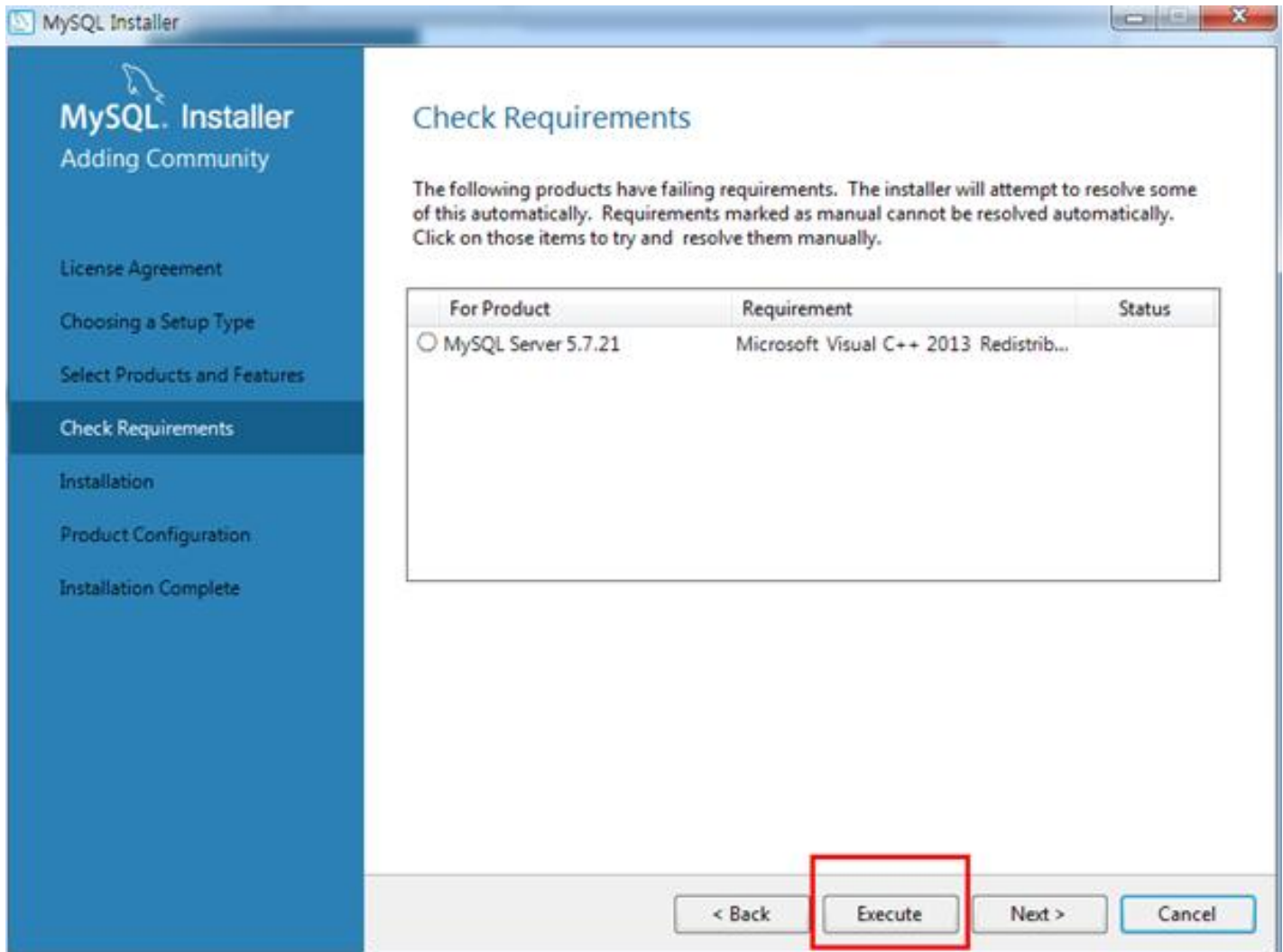
8. Custom 클릭 후 Next



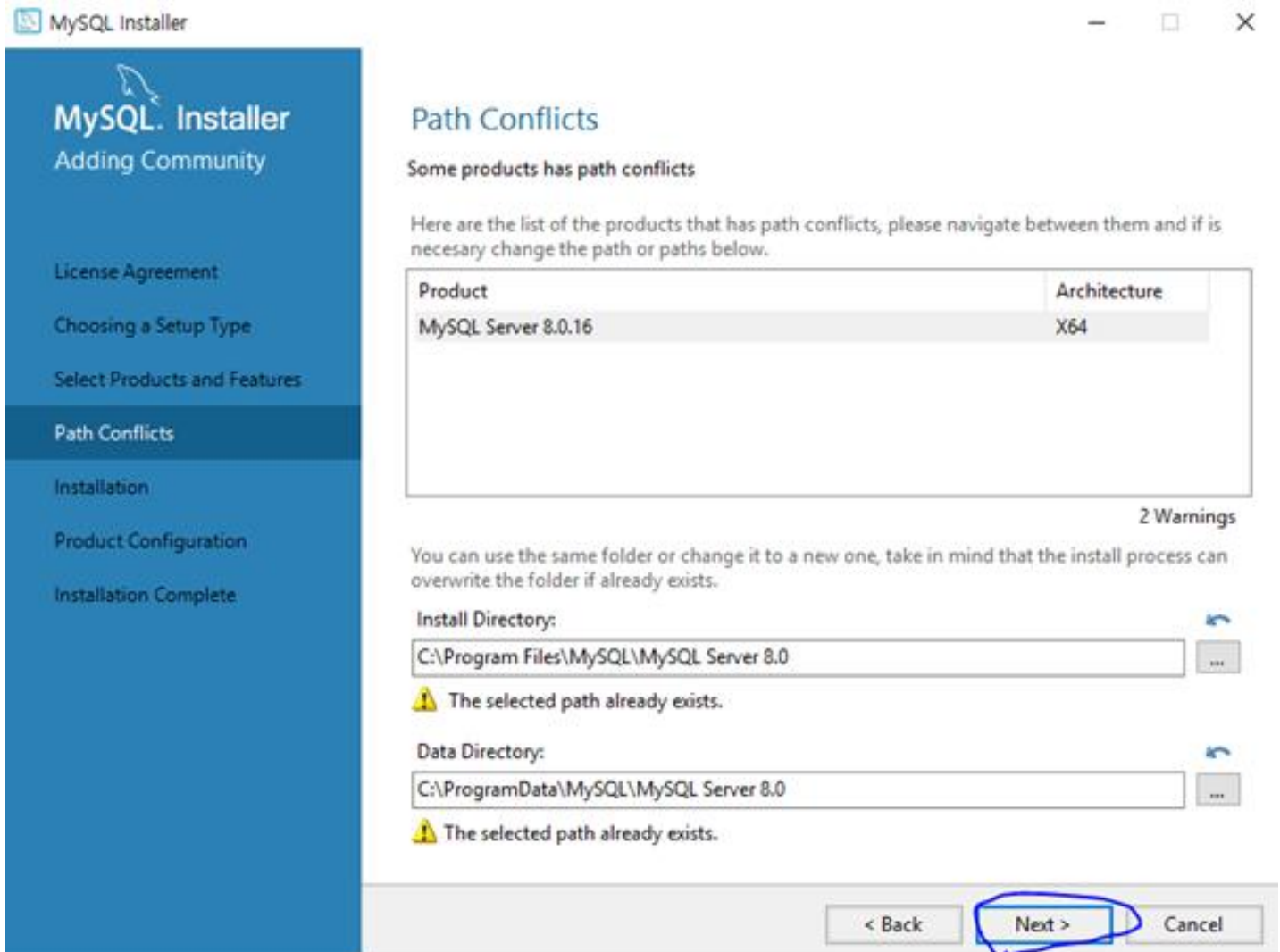
9. MySQL Server 탭 아래에 있는 MySQL Server 8.0.16 x64 파일, Application 탭 아래 MySQL Workbench, 화살표를 이용하여 오른쪽에 담고 Next클릭



10. Microsoft Visual C++ 2013 미설치 했을 시에만 뜨는 화면, Execute를 눌러 설치하고 진행



11. Execute 버튼을 눌러 설치 시작



MySQL Installer

MySQL. Installer

Adding Community

License Agreement

Choosing a Setup Type

Select Products and Features

Path Conflicts

Installation

Product Configuration

Installation Complete

Installation

The following products will be installed.

Product	Status	Progress	Notes
 MySQL Server 8.0.16	Ready to Install		
 MySQL Workbench 8.0.16	Ready to Install		

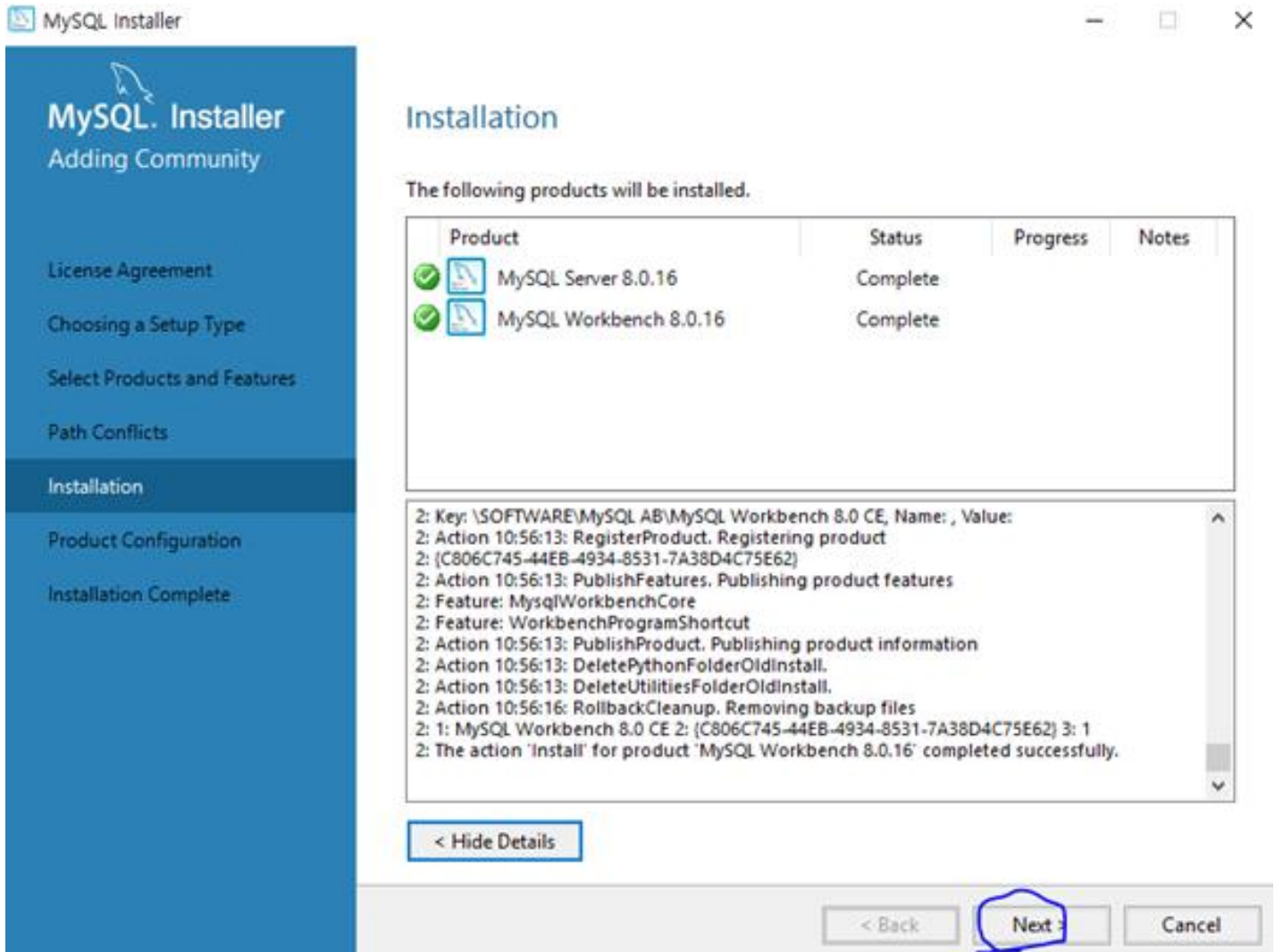
Click [Execute] to install the following packages.

< Back

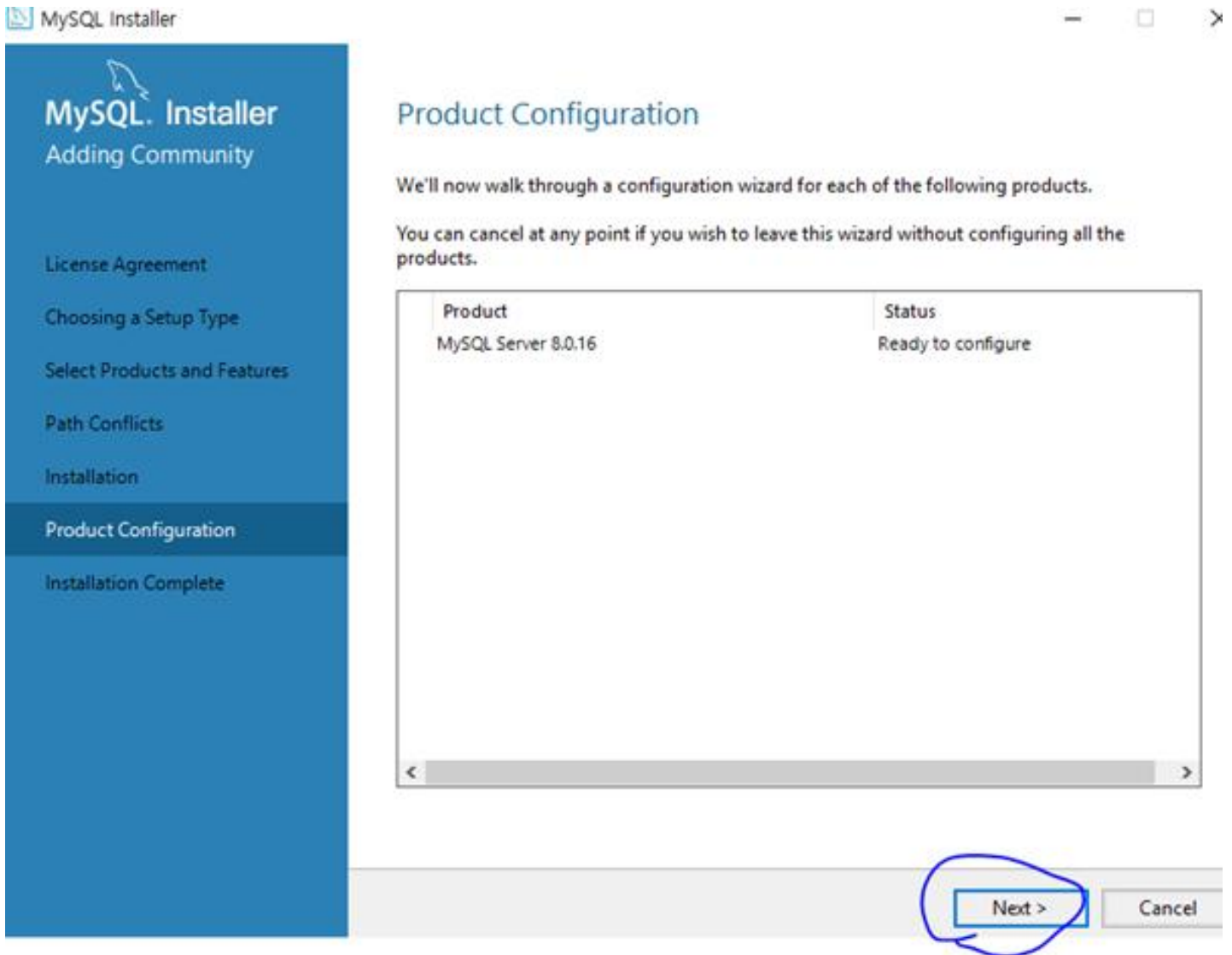
Execute

Cancel

12. 설치가 끝났으면 Next 클릭.

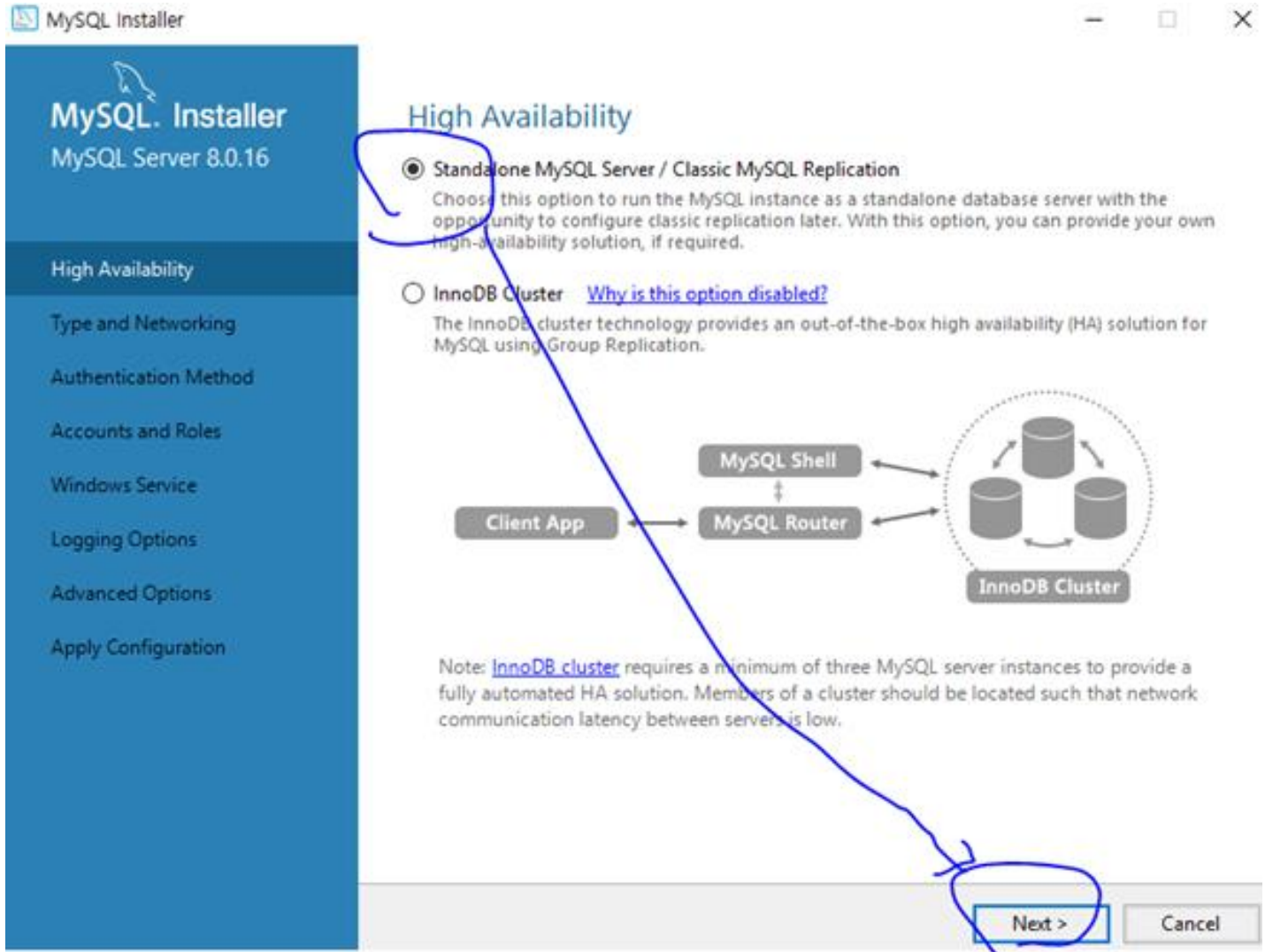


13. Next 클릭하여 서버 설정 시작.

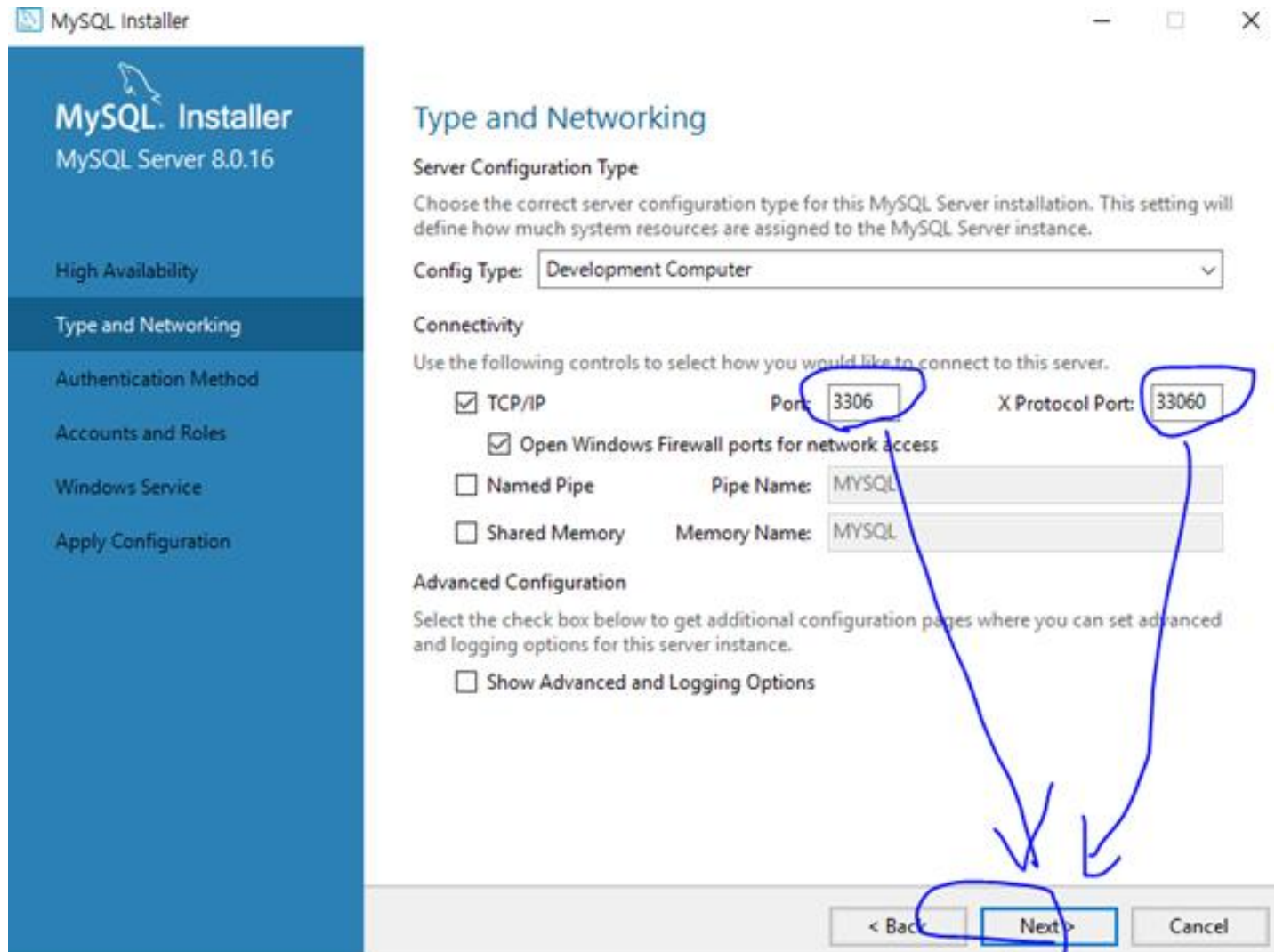


* MySQL Server 설정

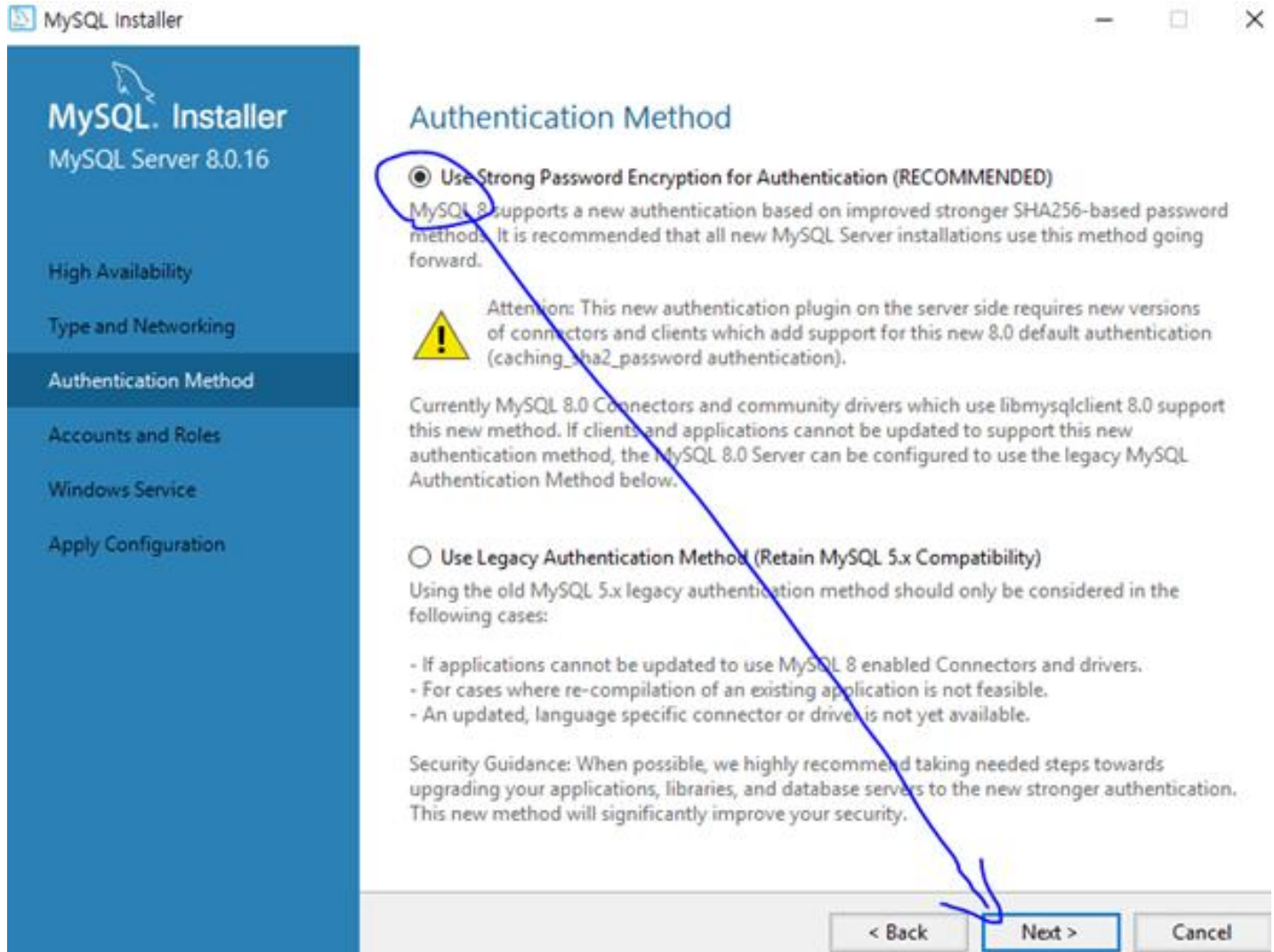
1. Standalone MySQL Server/Classic MySQL Replication 선택



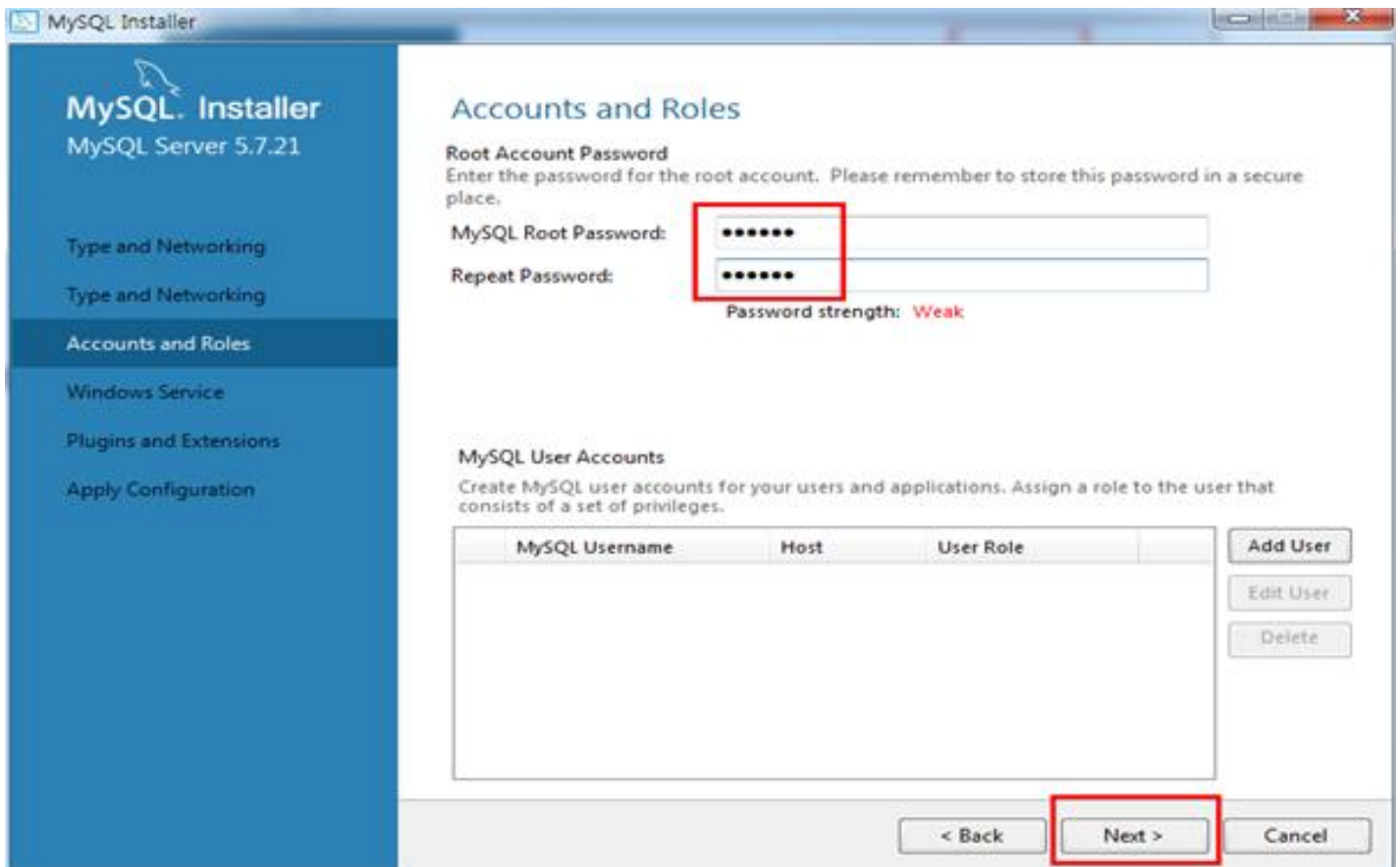
2. Port번호 확인하고 넘어갈 것. 기본은 3306으로 되어있음.



3. 비밀번호 체계는 Use String password encryption for Authentication 선택



4. 관리자 Root 비밀번호 설정 후 Next (공용환경에서는 mysql로 지정)



The image shows the 'Accounts and Roles' step of the MySQL Installer for MySQL Server 5.7.21. The left sidebar lists the installation steps: Type and Networking, Type and Networking, Accounts and Roles (selected), Windows Service, Plugins and Extensions, and Apply Configuration.

Accounts and Roles

Root Account Password
Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password:

Repeat Password:

Password strength: **Weak**

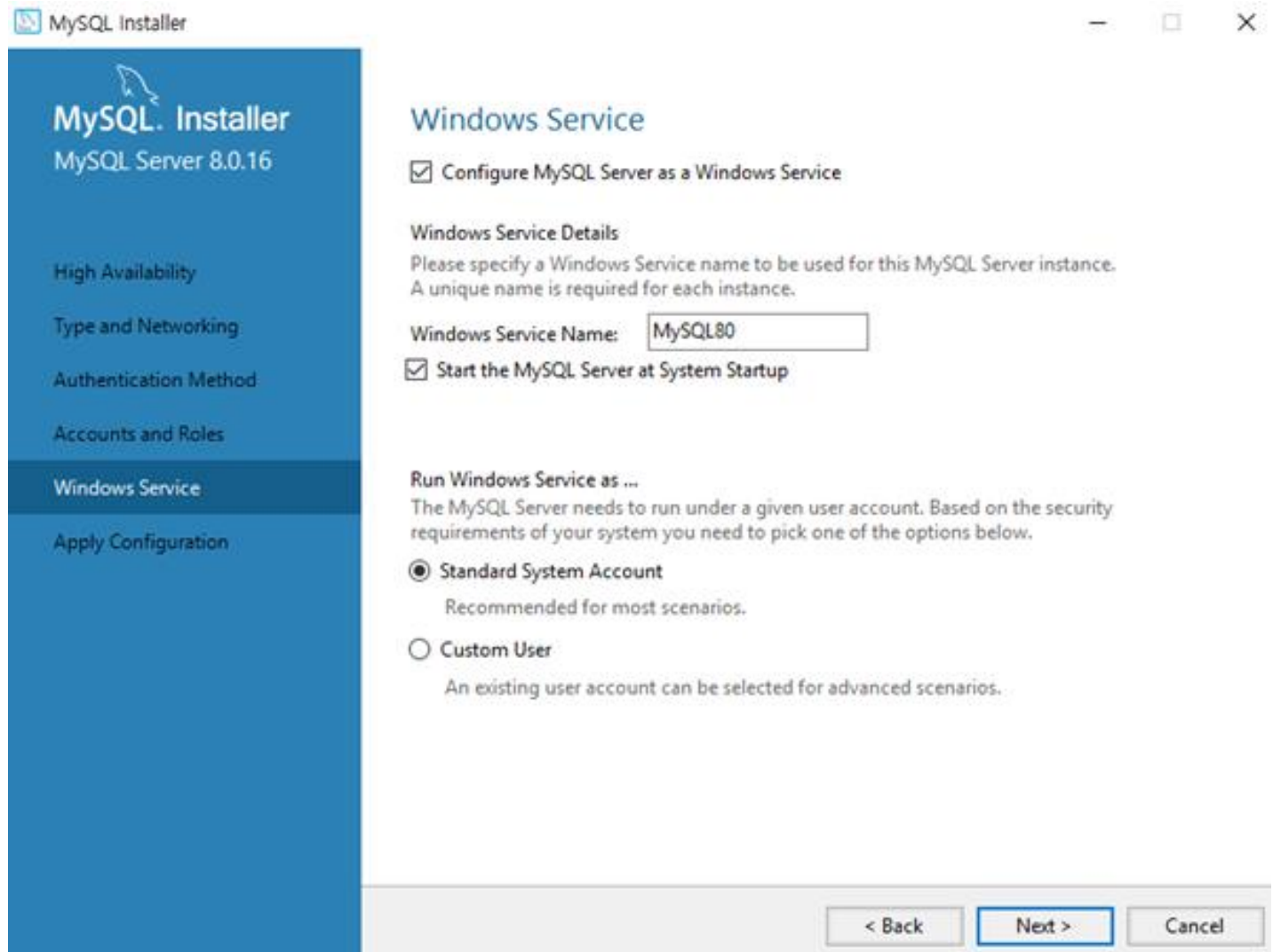
MySQL User Accounts
Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

MySQL Username	Host	User Role
----------------	------	-----------

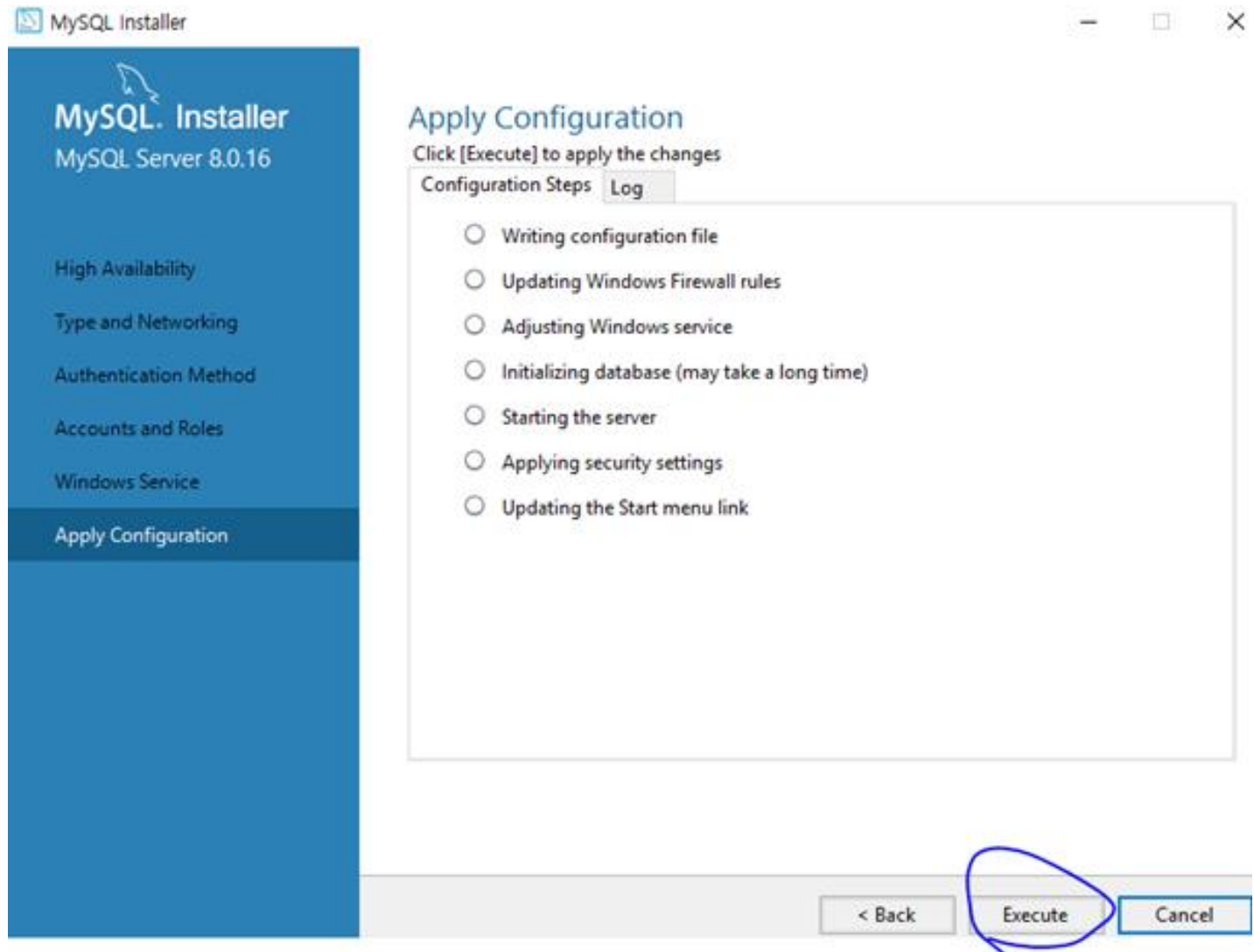
Buttons: Add User, Edit User, Delete

Navigation buttons: < Back, **Next >**, Cancel

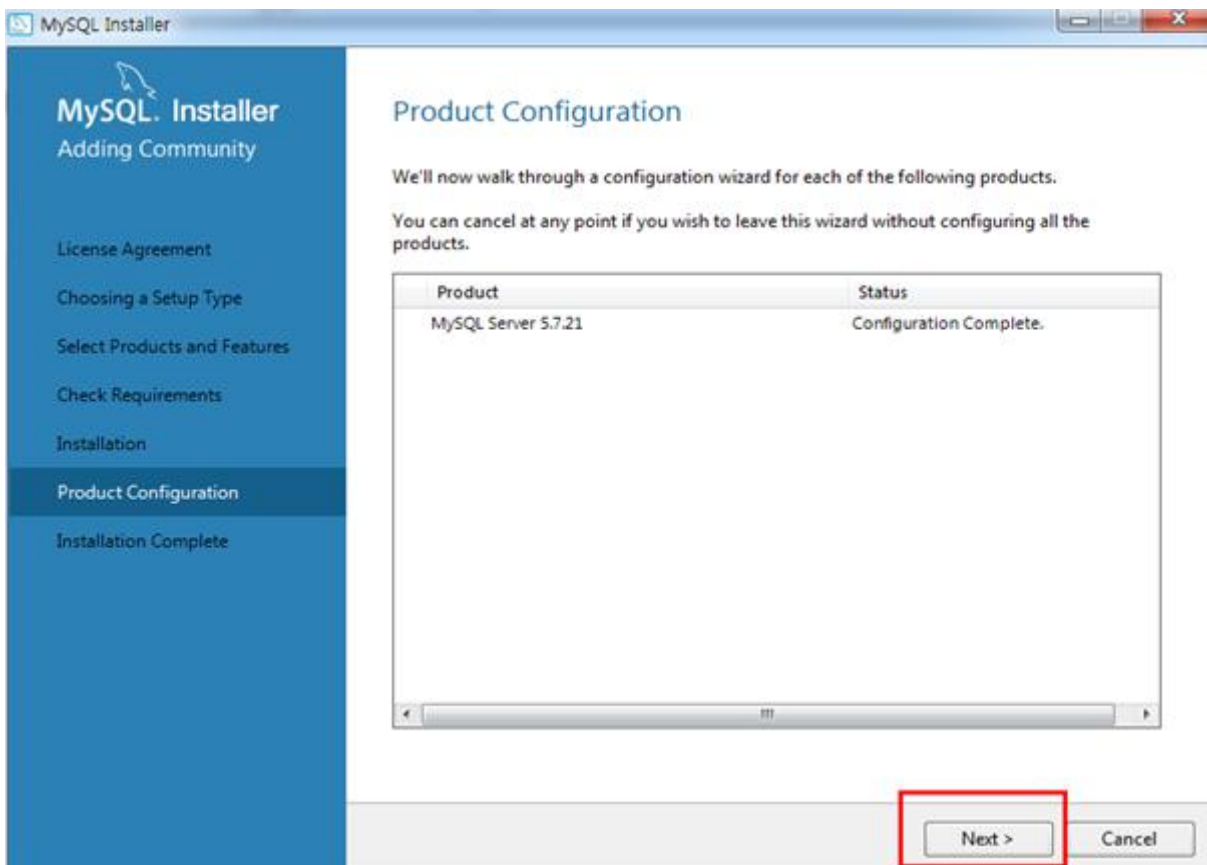
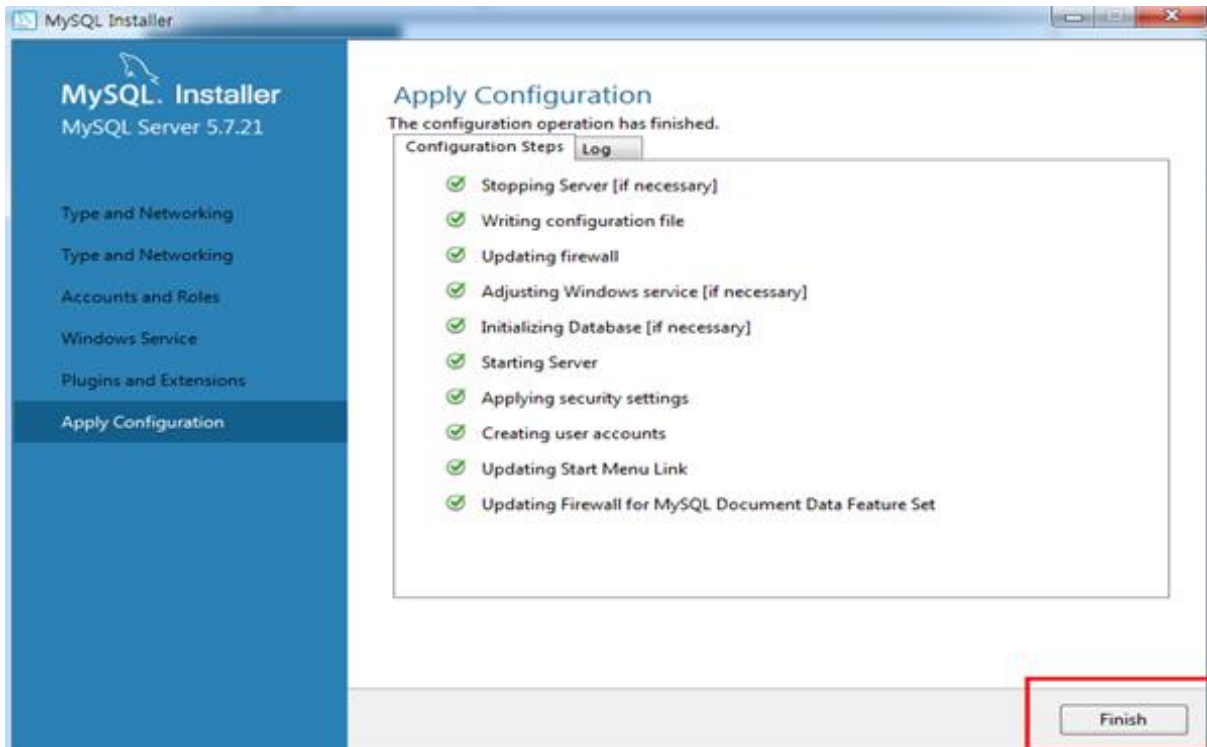
5. Service Name 지정 후 Next 클릭(디폴트로 뒤도 된다)



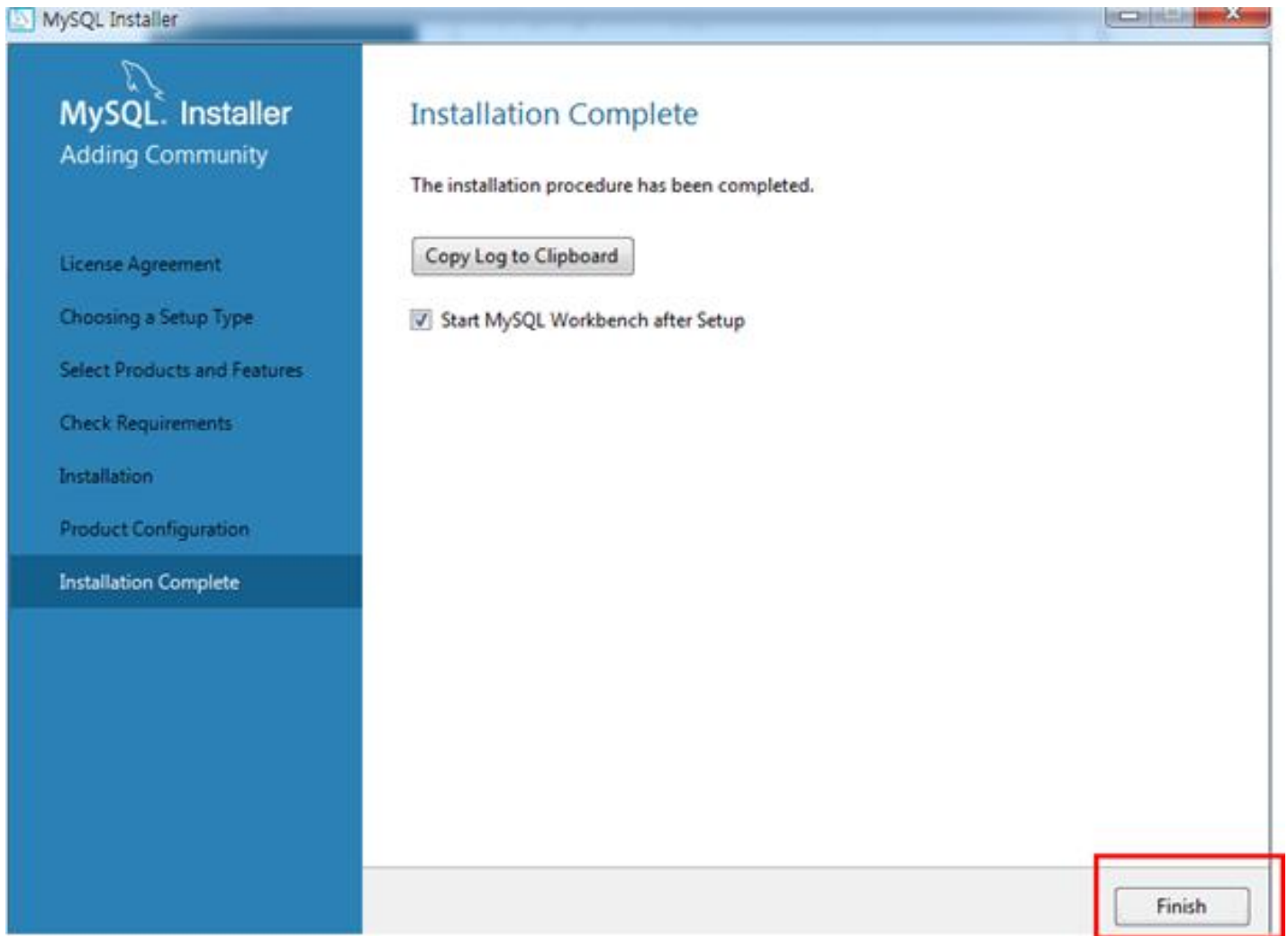
6. Next, Execute 클릭



7. Finish, Next 클릭

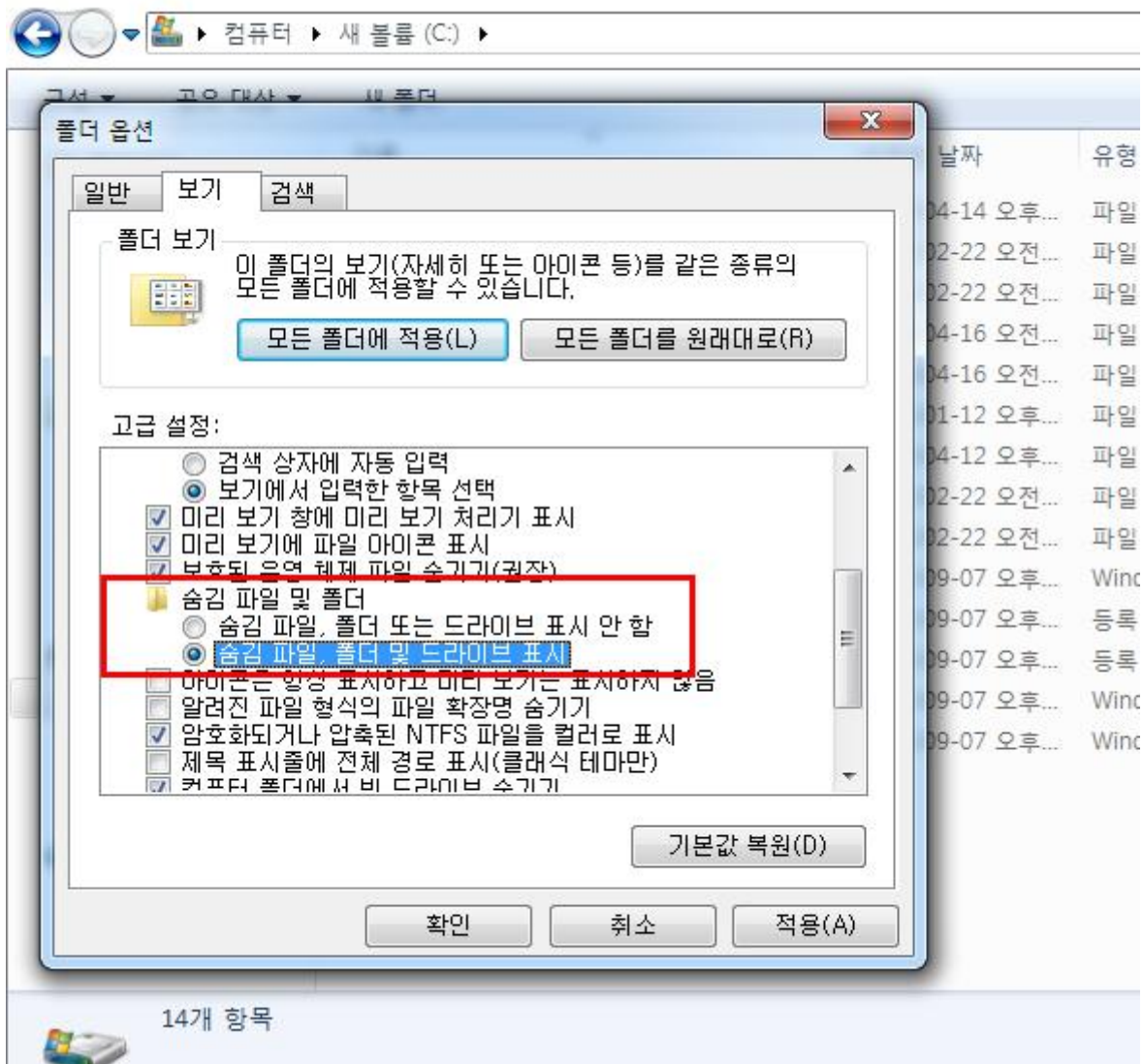


8. 설정 완료.

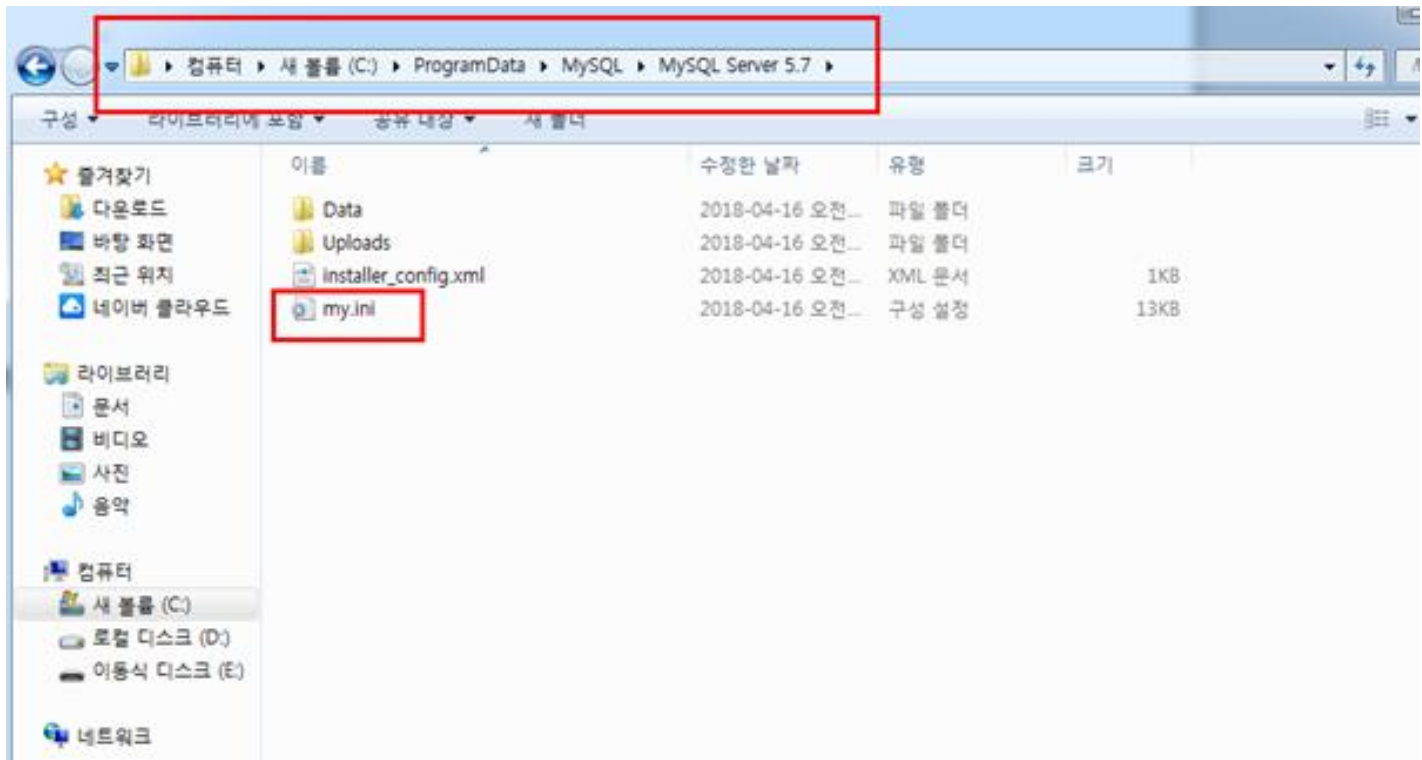


* MySQL 한글 인코딩 설정(8버전에선 생략해도 됩니다)

1. 내 컴퓨터 -> C드라이브 클릭 -> 폴더옵션에서 숨김 폴더 표시 체크



2. 숨겨진 폴더 ProgramData -> MySQL -> MySQL Server 5.7 폴더 연 뒤 my.ini 파일 수정



3. my.ini 파일 안에 다음 문장 추가

```
[client]  
default-character-set=utf8
```

```
[mysqld]  
character-set-server=utf8  
collation-server=utf8_general_ci  
init_connect=SET collation_connection=utf8_general_ci  
init_connect=SET NAMES utf8
```

```
[mysql]  
default-character-set=utf8
```

4. 설정이 완료된 모습

#

```
[client]
default-character-set=utf8
```

pipe

socket=0,0

port=3306

[mysql]

no-beep

default-character-set=utf8

SERVER SECTION

#

#

```
# The following options will be read by the MySQL Server. Make sure that
# you have installed the server correctly (see above) so it reads this
```

file,

#

server_type=3

[mysqld]

character-set-server=utf8

collation-server=utf8_general_ci

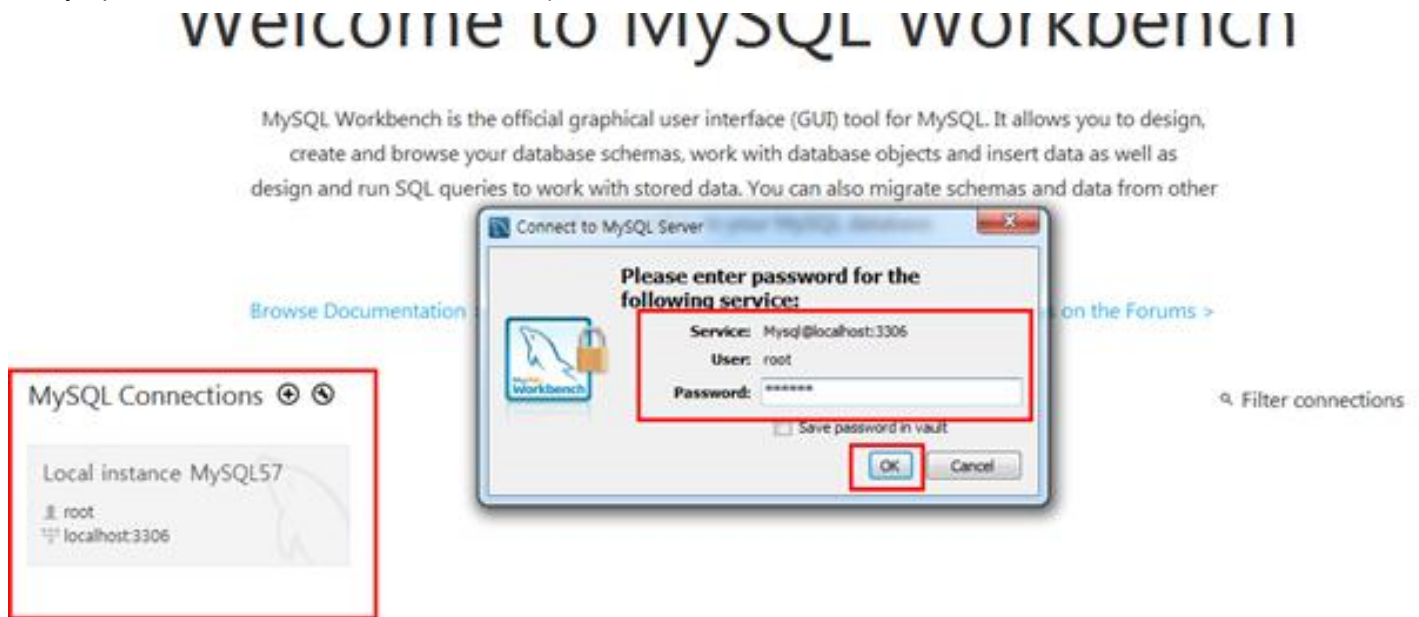
init_connect=SET collation_connection=utf8_general_ci

init_connect=SET NAMES utf8

The next three options are mutually exclusive to SERVER_PORT below.

skip-networking

5. MySQL Workbench 실행 후 한글 인코딩 확인, 이미 워크벤치가 실행중이라면 재실행한다.



6. System Variable 탭 아래 'char'입력 후 한글 인코딩 확인.

