

# 환경설정 – Windows

2012학년도 2학기  
웹프로그래밍

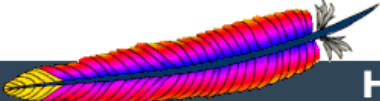
# Index

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- Apache httpd 설치
- JDK설치
- Tomcat 설치
- MySQL 설치
- Editor 설치
  - Sublime Editor

# Apache Http Server 다운로드

- <http://httpd.apache.org/>



## Apache

### HTTP SERVER PROJECT

#### Essentials

- [About](#)
- [License](#)
- [FAQ](#)
- [Security Reports](#)

#### Download!

[From a Mirror](#)

#### Documentation

- [Version 2.4](#)
- [Version 2.2](#)
- [Version 2.0](#)
- [Trunk \(dev\)](#)
- [Wiki](#)

#### Get Support

- [Support](#)

#### Get Involved

#### The Number One HTTP Server On The Internet

The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows NT. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards.

Apache httpd has been the most popular web server on the Internet since April 1996, and celebrated its 17th birthday as a project this February.

The Apache HTTP Server ("httpd") is a project of [The Apache Software Foundation](#).

#### Apache httpd 2.4.3 Released

2012-08-21

The Apache Software Foundation and the Apache HTTP Server Project are pleased to [announce](#) the release of version 2.4.3 of the Apache HTTP Server ("Apache"). This version of Apache is our 3rd GA release of the new generation 2.4.x branch of Apache HTTPD and represents fifteen years of innovation by the project, and is recommended over all previous releases. This version of Apache is principally a security and bug fix release.

This version of httpd is a major release of the 2.4 stable branch, and represents the best available version of Apache HTTP Server. [New features](#) include Loadable MPMs, major improvements to OSCP support, mod\_lua, Dynamic Reverse Proxy configuration, Improved Authentication/Authorization, FastCGI Proxy, New Expression Parser, and a Small Object Caching API.

[Download](#) | [New Features in httpd 2.4](#) | [Complete ChangeLog for 2.4](#) | [ChangeLog for just 2.4.3](#)

#### Apache httpd 2.2.23 Released

2012-09-13

# Apache Http Server 설치

- [Other files](#)

## Apache HTTP Server 2.2.23 (httpd)

2012-09-13

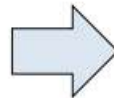
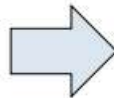
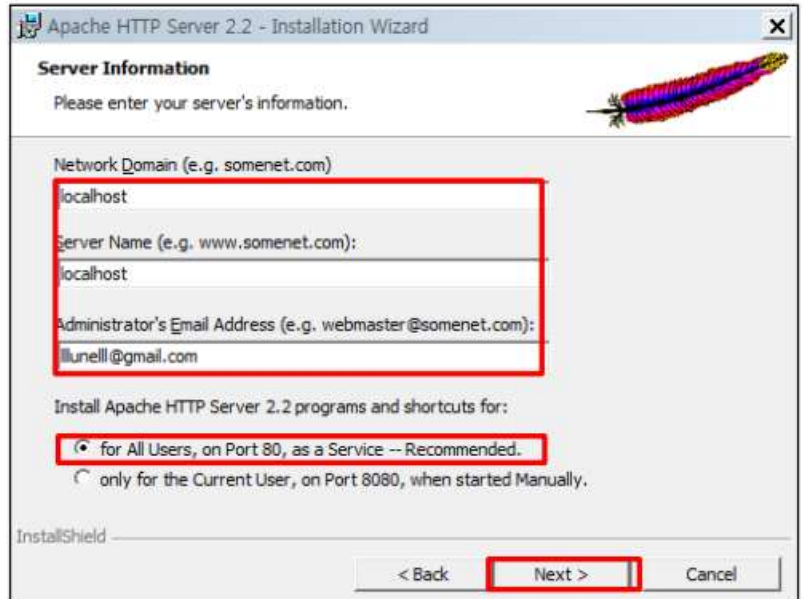
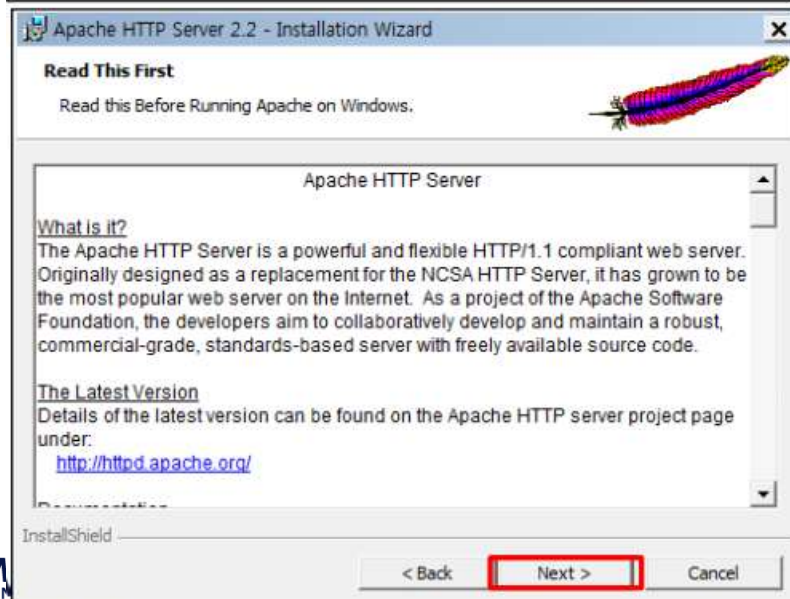
The Apache HTTP Server Project is pleased to announce the release of Apache HTTP Server (httpd) version 2.2.23.

For details see the [Official Announcement](#) and the [CHANGES\\_2.2](#) or condensed [CHANGES\\_2.2.23](#) lists

Add-in modules for Apache 2.0 are not compatible with Apache 2.2. If you are running third party add-in modules, you must obtain modules compiled or updated for Apache 2.2 from that third party, before you attempt to upgrade from these previous versions. Modules compiled for Apache 2.2 should continue to work for all 2.2.x releases.

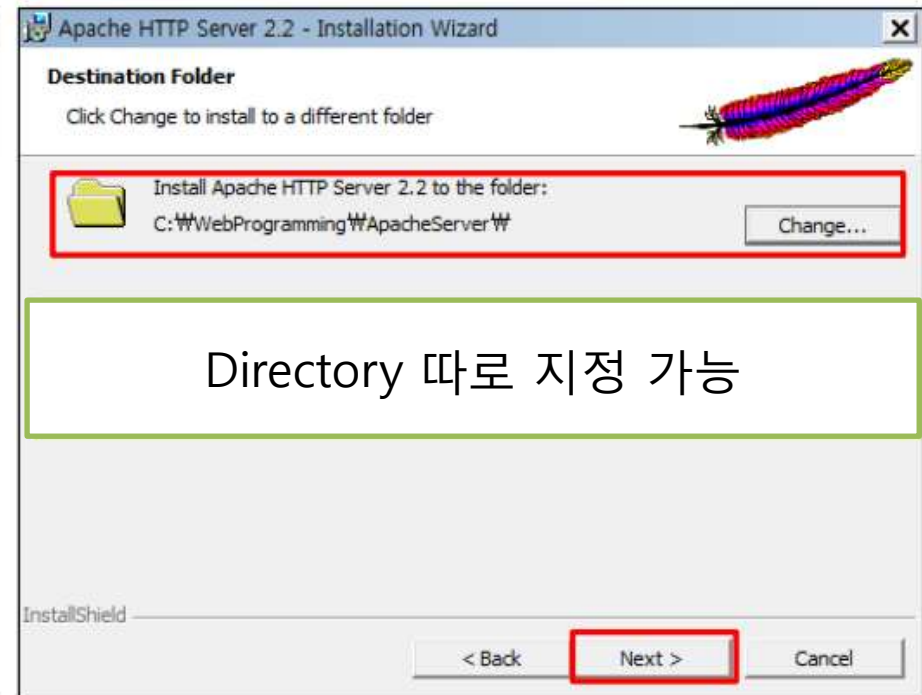
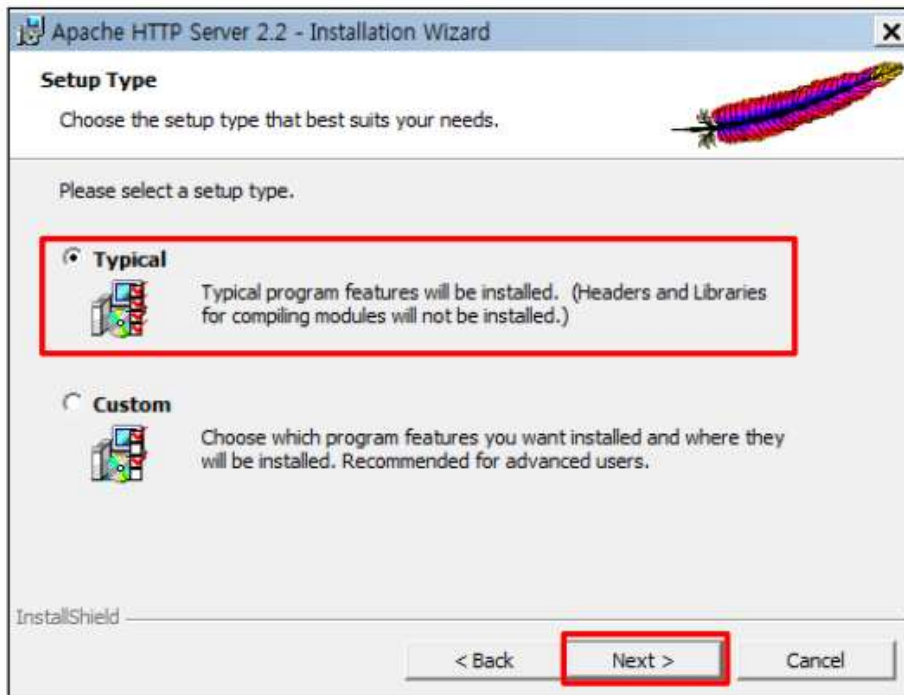
- Unix Source: [httpd-2.2.23.tar.gz](#) [ [PGP](#) ] [ [MD5](#) ] [ [SHA1](#) ]
- Unix Source: [httpd-2.2.23.tar.bz2](#) [ [PGP](#) ] [ [MD5](#) ] [ [SHA1](#) ]
- Win32 Source: [httpd-2.2.23-win32-src.zip](#) [ [PGP](#) ] [ [MD5](#) ] [ [SHA1](#) ]
- Win32 Binary without crypto (no mod\_ssl) (MSI Installer): [httpd-2.2.23-win32-x86-no\\_ssl.msi](#) [ [PGP](#) ] [ [MD5](#) ] [ [SHA1](#) ]
- Win32 Binary including OpenSSL 0.9.8t (MSI Installer): [httpd-2.2.23-win32-x86-openssl-0.9.8t.msi](#) [ [PGP](#) ] [ [MD5](#) ] [ [SHA1](#) ]
- NetWare Binary: [httpd\\_2.2.23-netware.zip](#) [ [PGP](#) ] [ [MD5](#) ] [ [SHA1](#) ]
- [Security and official patches](#)
- [Other files](#)

# Apache Http Server 설치 (Cont.)

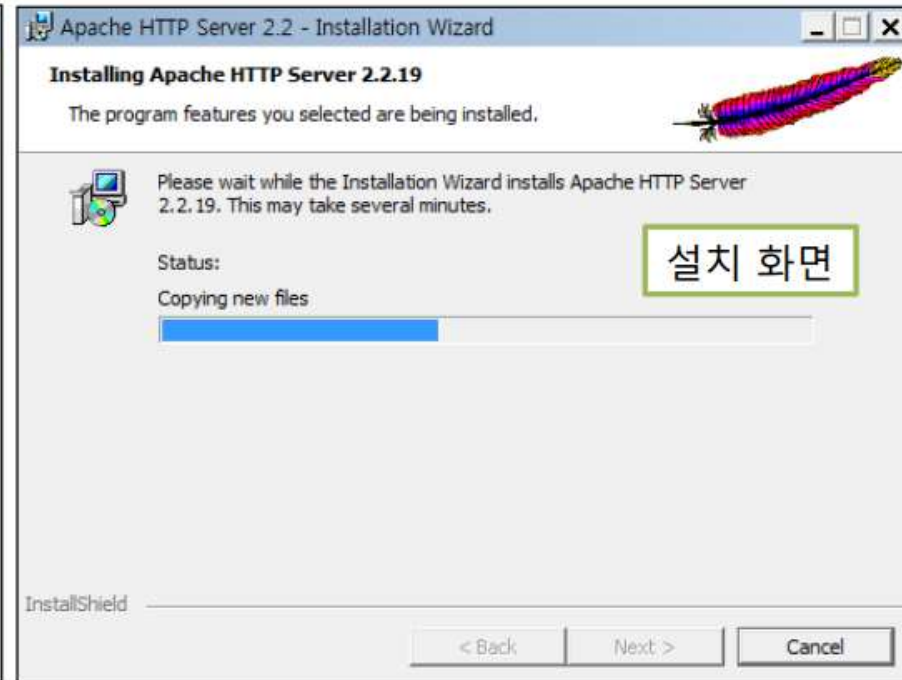
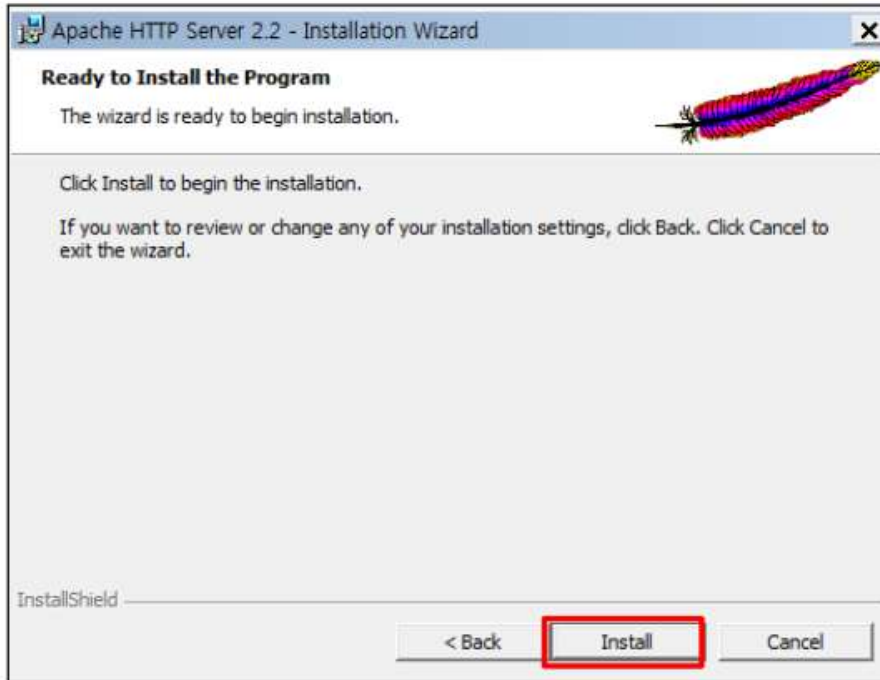


# Apache Http Server 설치 (Cont.)

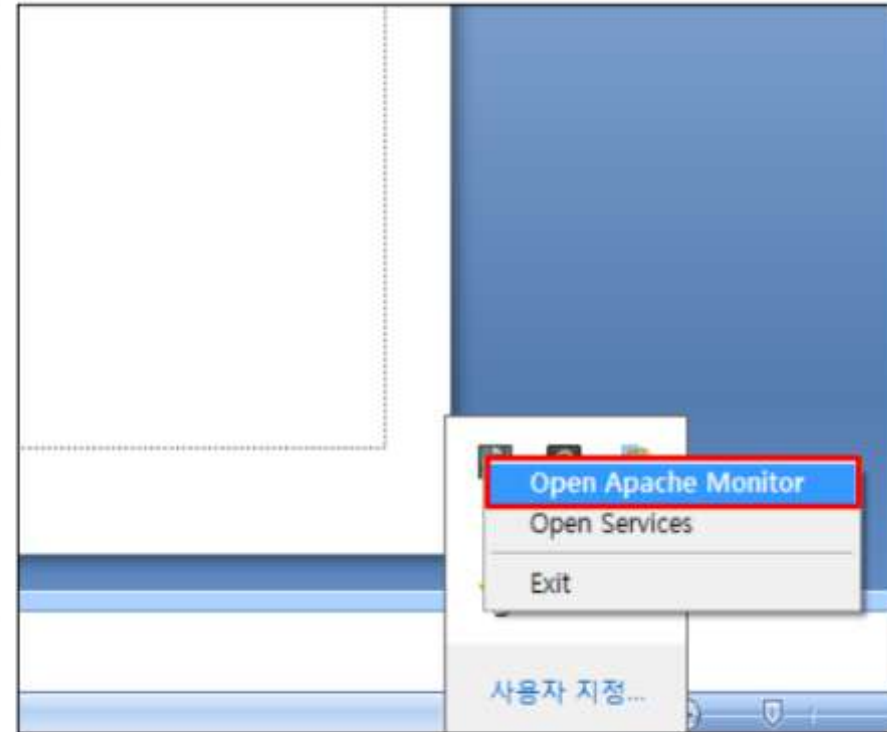
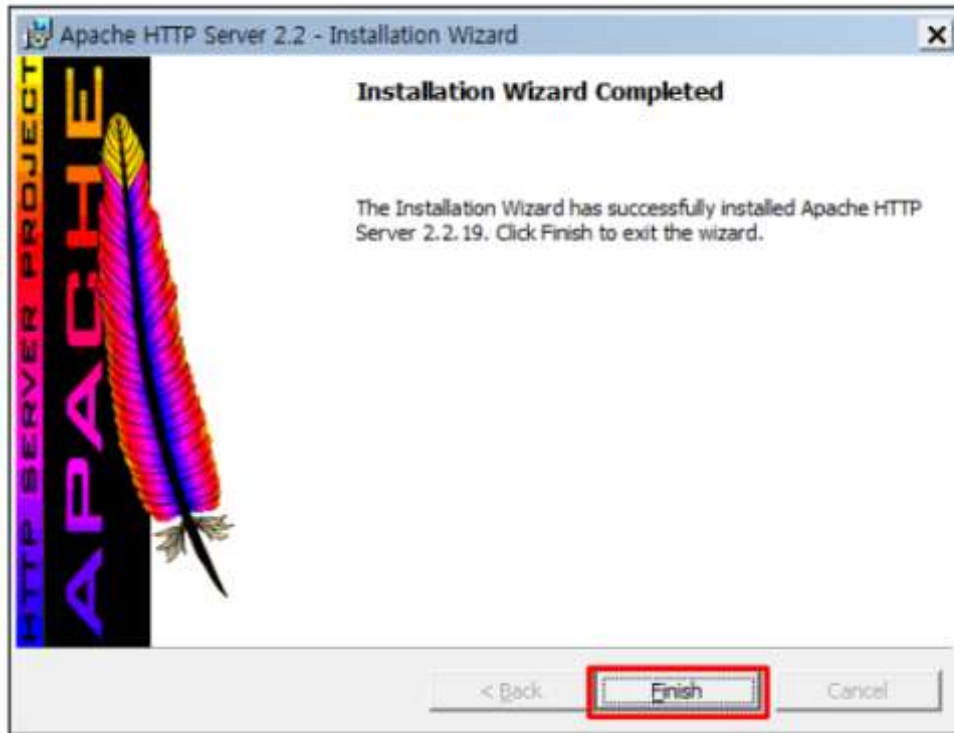
- 설치 디렉터리 지정 -> next 클릭
  - C:\Program Files\Apache Software Foundation (default)



# Apache Http Server 설치 (Cont.)



# Apache Http Server 설치 (Cont.)

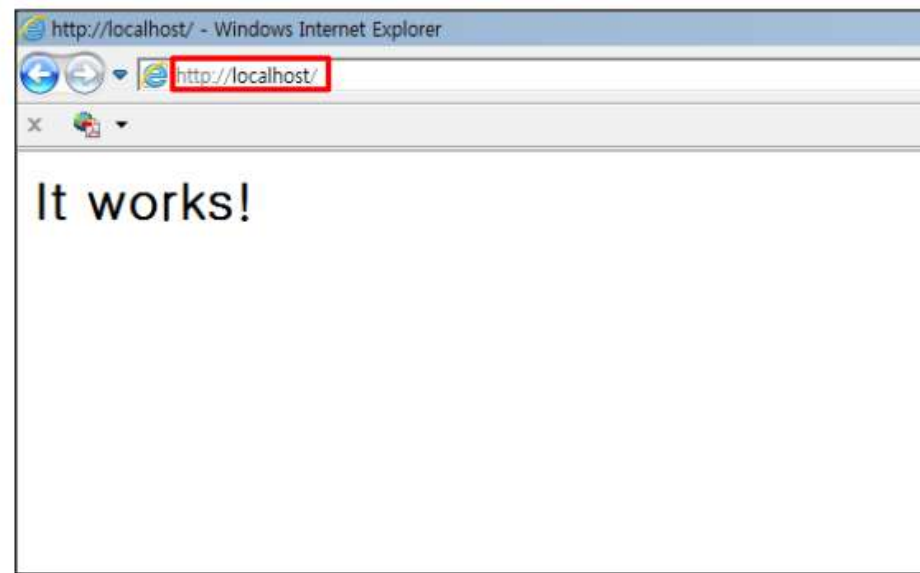
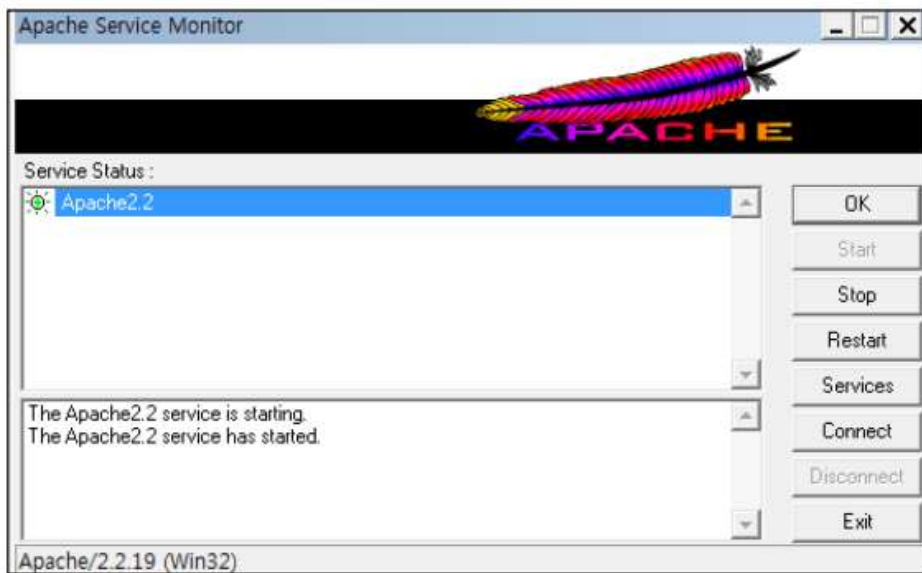


아파치 트레이 아이콘 오른쪽 버튼 클릭



# Apache Http Server 설치 (Cont.)

- Apache Service Monitor 창에 서 Apache HTTP Server 시작/종료 설정
- 주소 창에 `http://localhost/` 를 입력 다음과 같은 화면 이 뜨면 설치 완료



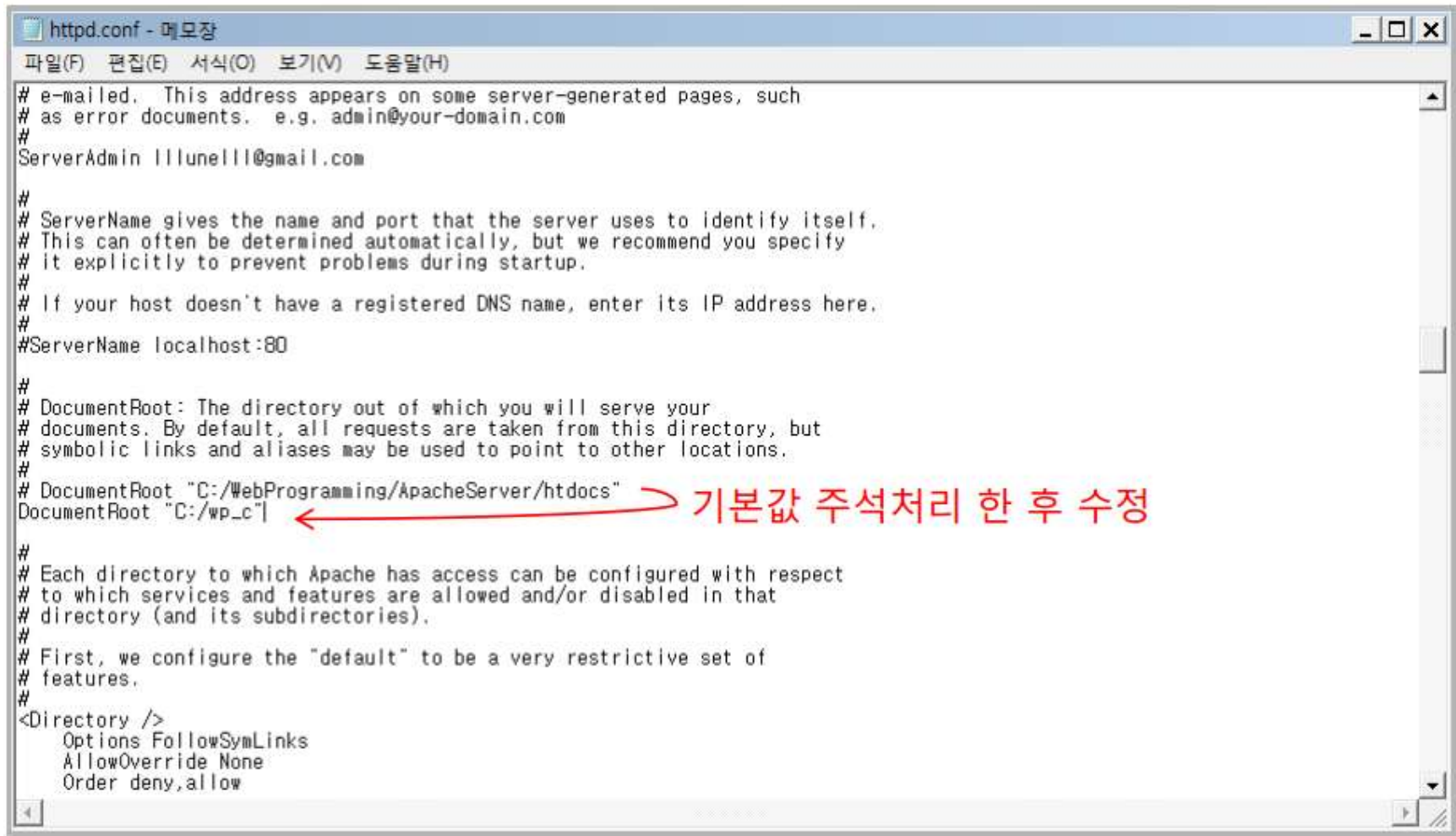
# Document Root 변경

- 시작->프로그램->Apache HTTP Server 2.2-> Configuration
- Apache Server -> Edit Apache httpd.conf... 클릭



# Document Root 변경 (Cont.)

- DocumentRoot 경로를 원하는 경로로 변경 (176줄)



```
httpd.conf - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)
# e-mailed. This address appears on some server-generated pages, such
# as error documents. e.g. admin@your-domain.com
#
ServerAdmin illunell@gmail.com

#
# ServerName gives the name and port that the server uses to identify itself.
# This can often be determined automatically, but we recommend you specify
# it explicitly to prevent problems during startup.
#
# If your host doesn't have a registered DNS name, enter its IP address here.
#
#ServerName localhost:80

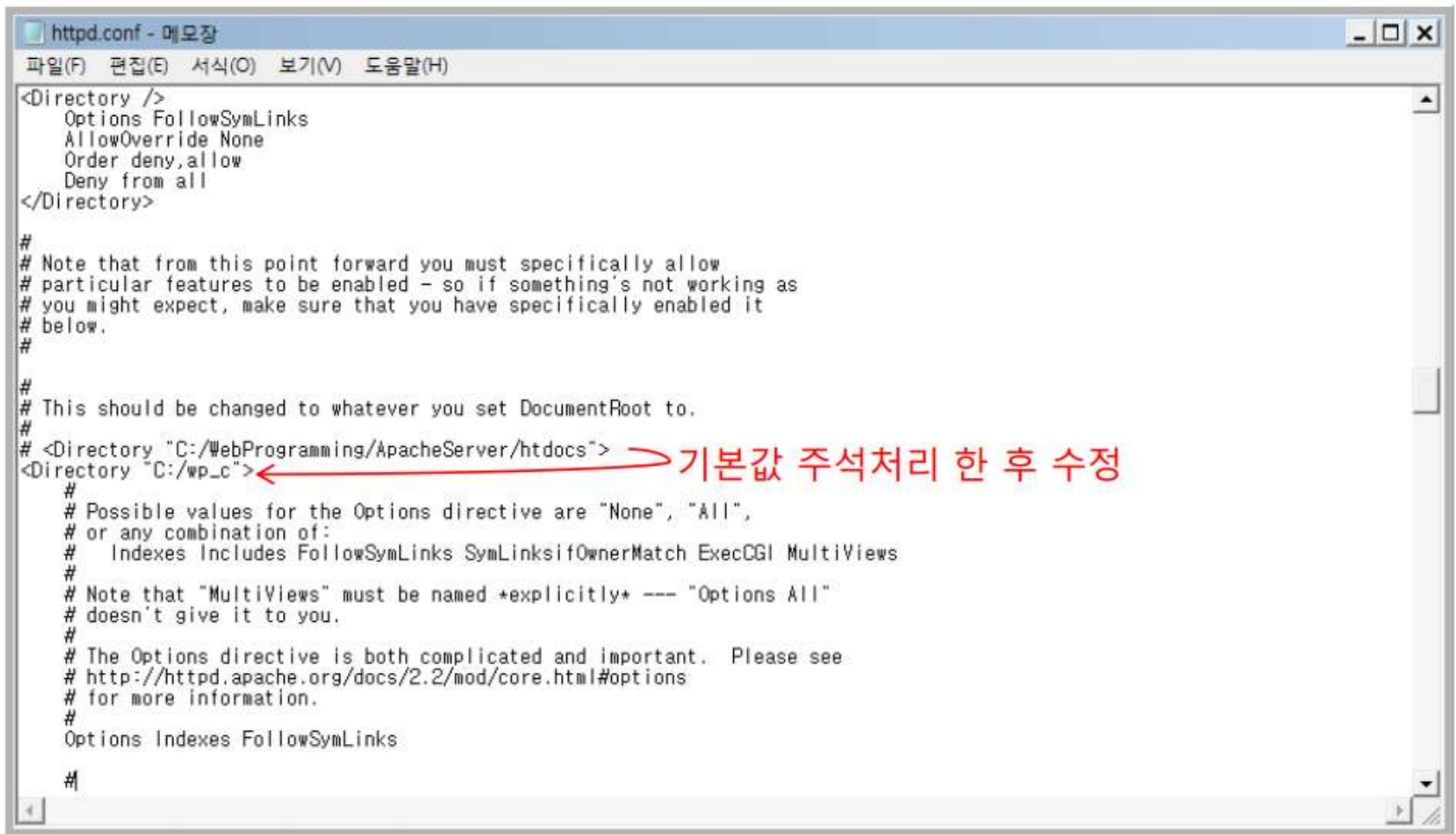
#
# DocumentRoot: The directory out of which you will serve your
# documents. By default, all requests are taken from this directory, but
# symbolic links and aliases may be used to point to other locations.
#
# DocumentRoot "C:/WebProgramming/ApacheServer/htdocs"
DocumentRoot "C:/wp_c"

#
# Each directory to which Apache has access can be configured with respect
# to which services and features are allowed and/or disabled in that
# directory (and its subdirectories).
#
# First, we configure the "default" to be a very restrictive set of
# features.
#
<Directory />
    Options FollowSymLinks
    AllowOverride None
    Order deny,allow
```

기본값 주석처리 한 후 수정

# Document Root 변경 (Cont.)

- <Directory "C:/Program Files ...">를 원하는 경로로 변경 (DocumentRoot 와 같은 경로)



```
httpd.conf - 메모장
파일(F) 편집(E) 서식(O) 보기(V) 도움말(H)

<Directory />
    Options FollowSymLinks
    AllowOverride None
    Order deny,allow
    Deny from all
</Directory>

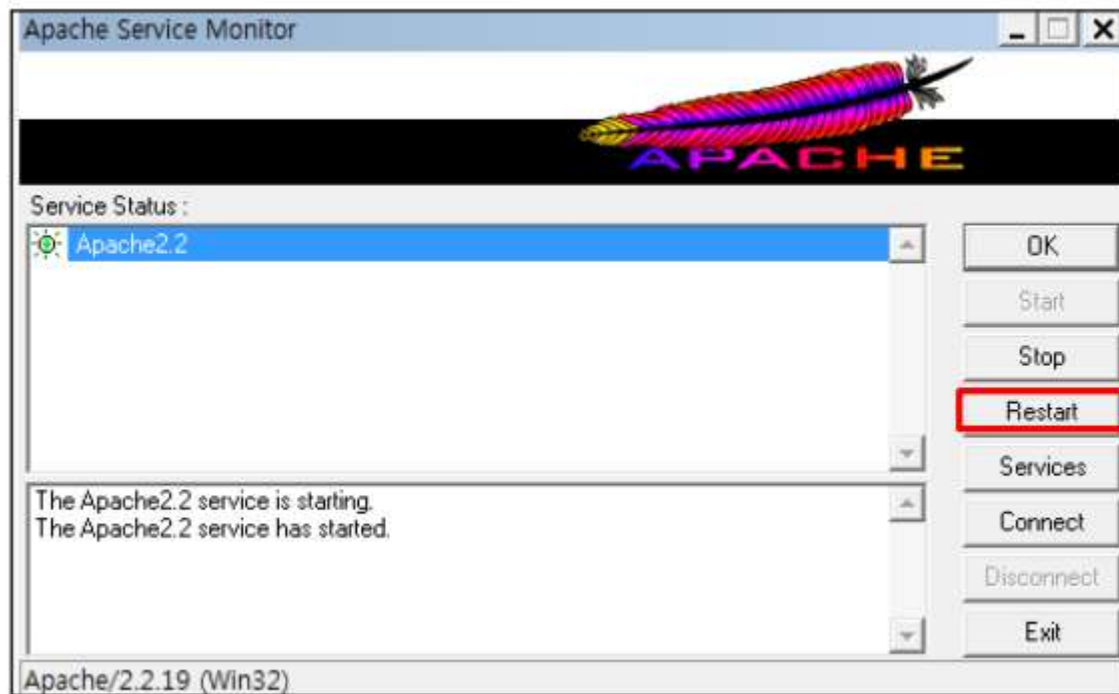
#
# Note that from this point forward you must specifically allow
# particular features to be enabled - so if something's not working as
# you might expect, make sure that you have specifically enabled it
# below.
#
#
# This should be changed to whatever you set DocumentRoot to.
#
# <Directory "C:/WebProgramming/ApacheServer/htdocs">
<Directory "C:/wp_c">
#
# Possible values for the Options directive are "None", "All",
# or any combination of:
#   Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI MultiViews
#
# Note that "MultiViews" must be named *explicitly* --- "Options All"
# doesn't give it to you.
#
# The Options directive is both complicated and important. Please see
# http://httpd.apache.org/docs/2.2/mod/core.html#options
# for more information.
#
Options Indexes FollowSymLinks

#
```

기본값 주석처리 한 후 수정

# Document Root 변경 (Cont.)

- 저장
- 아파치 재시작



# JDK설치

# JDK version 확인

---

- 명령 프롬프트 창에서 "java -version" 입력

```
C:\Users\SIYEON>java -version
java version "1.7.0_03"
Java(TM) SE Runtime Environment (build 1.7.0_03-b05)
Java HotSpot(TM) 64-Bit Server VM (build 22.1-b02, mixed mode)
```

# JDK 다운로드

- Oracle 사이트 (<http://www.oracle.com>) 에서 Downloads 탭 아래 Java for Developers 클릭

**ORACLE** Welcome 시연 Account Sign Out Help Select Country/Region Communiti I ar

**Products and Services** **Solutions** **Downloads** **Store** **Support** **Training** **Partners** **About**

**Popular Downloads**

- [Java for Developers](#)
- Java for Your Computer
- JavaFX
- Solaris
- MySQL
- Oracle Fusion Middleware 11g
- Oracle Database 11g
- Prebuilt Developer VMs

**Database**

- Oracle Database 11g
- Oracle Database 11g Release 2 Express Edition
- MySQL
- Oracle Berkeley DB
- Oracle Instant Client
- Oracle Application Express
- See All...

**Enterprise Management**

- Oracle Enterprise Manager
- Oracle Application Testing Suite
- See All...

**Server and Storage Systems**

- Solaris
- Linux and Oracle VM
- Firmware
- See All...

**Developer Tools**

- SQL Developer
- JDeveloper and A
- Developer Tools f
- Enterprise Pack fo
- NetBeans IDE
- See All...

**Prebuilt Develop**



# JDK 다운로드 (Cont.)

- Java Platform (JDK) 7u7 Download



The screenshot shows the 'Downloads' tab of the Java SE website. Under the 'Java SE Downloads' section, there are four buttons: 'Latest Release', 'Next Release (Early Access)', 'Embedded Use', and 'Previous Releases'. Below these, there are two download buttons: 'Java Platform (JDK) 7u7' and 'JavaFX 2.2'. The 'Java Platform (JDK) 7u7' button is highlighted with a red rectangular box. Below the buttons, the text 'Here are the Java SE downloads in detail:' is visible.

Overview Downloads Documentation Community Technologies Training

## Java SE Downloads

Latest Release Next Release (Early Access) Embedded Use Previous Releases

 **DOWNLOAD** ↓

Java Platform (JDK) 7u7

 **DOWNLOAD** ↓

JavaFX 2.2

Here are the Java SE downloads in detail:

# JDK 다운로드 (Cont.)

- Windows 환경에 맞는 파일 다운로드

## Java SE Development Kit 7u7

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 x86	120.62 MB	<a href="#">jdk-7u7-linux-i586.rpm</a>
Linux x86	92.86 MB	<a href="#">jdk-7u7-linux-i586.tar.gz</a>
Linux x64	118.8 MB	<a href="#">jdk-7u7-linux-x64.rpm</a>
Linux x64	91.59 MB	<a href="#">jdk-7u7-linux-x64.tar.gz</a>
Mac OS X	143.46 MB	<a href="#">jdk-7u7-macosx-x64.dmg</a>
Solaris x86	135.4 MB	<a href="#">jdk-7u7-solaris-i586.tar.Z</a>
Solaris x86	91.86 MB	<a href="#">jdk-7u7-solaris-i586.tar.gz</a>
Solaris x64	22.51 MB	<a href="#">jdk-7u7-solaris-x64.tar.Z</a>
Solaris x64	14.95 MB	<a href="#">jdk-7u7-solaris-x64.tar.gz</a>
Solaris SPARC	135.69 MB	<a href="#">jdk-7u7-solaris-sparc.tar.Z</a>
Solaris SPARC	95.15 MB	<a href="#">jdk-7u7-solaris-sparc.tar.gz</a>
Solaris SPARC 64-bit	22.75 MB	<a href="#">jdk-7u7-solaris-sparcv9.tar.Z</a>
Solaris SPARC 64-bit	17.47 MB	<a href="#">jdk-7u7-solaris-sparcv9.tar.gz</a>
Windows x86	88.36 MB	<a href="#">jdk-7u7-windows-i586.exe</a>
Windows x64	90 MB	<a href="#">jdk-7u7-windows-x64.exe</a>

# TOMCAT 설치

# Tomcat 다운로드

- <http://tomcat.apache.org/> 에서 Tomcat 7.0 다운로드 선택



The screenshot shows the Apache Tomcat website. At the top left is the Tomcat logo (a yellow cat) and the text "Apache Tomcat". To the right is the Apache Software Foundation logo (a red feather) and the text "The Apache Software Foundation" with the URL "http://www.apache.org/". Below the logos is a search bar with the text "Search the Site" and a "Search Site" button. The main content area has a dark blue header with the text "Apache Tomcat". Below this header, there are two columns. The left column has a section titled "Apache Tomcat" with links for "Home" and "Taglibs", and a section titled "Download" with links for "Which version?", "Tomcat 7.0", "Tomcat 6.0", "Tomcat 5.5", "Tomcat Connectors", "Tomcat Native", and "Archives". The "Tomcat 7.0" link is highlighted with a red box. The right column has a paragraph describing Apache Tomcat as an open source software implementation of the Java Servlet and JavaServer Pages technologies, and another paragraph describing the development process and inviting participation. At the bottom right, there is a paragraph about the mission-critical web applications powered by Apache Tomcat.

**Apache Tomcat**

Apache Tomcat is an open source software implementation of the Java Servlet and JavaServer Pages technologies. The Java Servlet and JavaServer Pages specifications are developed under the [Java Community Process](#).

Apache Tomcat is developed in an open and participatory environment and released under the [Apache License version 2](#). Apache Tomcat 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 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**

- [Home](#)
- [Taglibs](#)

**Download**

- [Which version?](#)
- [Tomcat 7.0](#)
- [Tomcat 6.0](#)
- [Tomcat 5.5](#)
- [Tomcat Connectors](#)
- [Tomcat Native](#)
- [Archives](#)

# Tomcat 다운로드 (Cont.)

- 32bit/64bit windows Service Installer 다운로드

- [Bug Database](#)
- [IRC](#)

### Get Involved

- [Overview](#)
- [SVN Repositories](#)
- [Buildbot](#)
- [Reviewboard](#)

### Media

- [Blog](#)
- [Twitter](#)

### Misc

- [Who We Are](#)
- [Heritage](#)
- [Apache Home](#)
- [Resources](#)
- [Contact](#)
- [Legal](#)
- [Sponsorship](#)
- [Thanks](#)

**7.0.12**

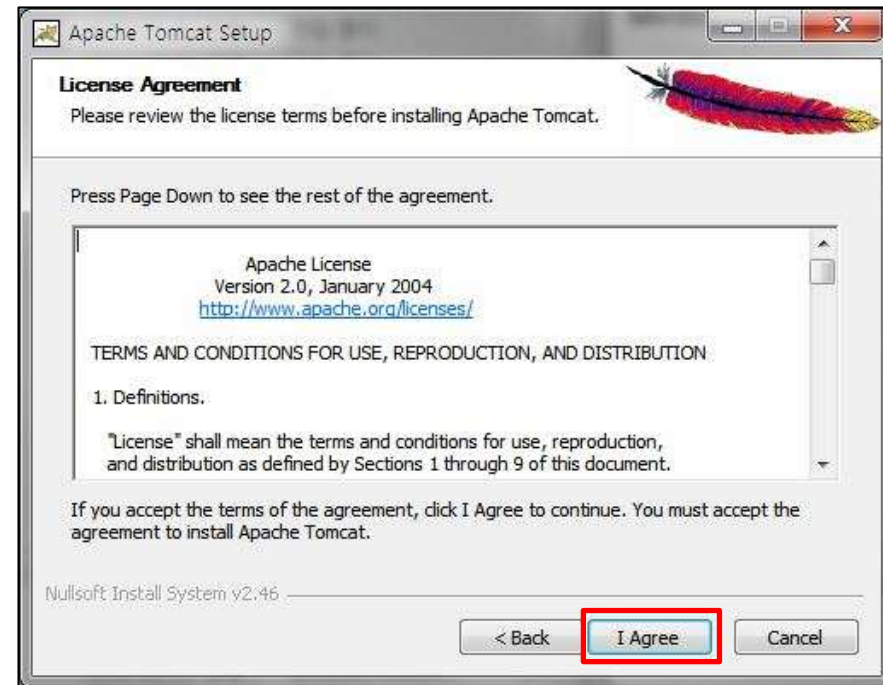
Please see the [README](#) file for packaging information. It explains what every distribution contains.

### Binary Distributions

- Core:
  - [zip \(pgp, md5\)](#)
  - [tar.gz \(pgp, md5\)](#)
  - [32-bit Windows zip \(pgp, md5\)](#)
  - [64-bit Windows zip \(pgp, md5\)](#)
  - [64-bit Itanium Windows zip \(pgp, md5\)](#)
  - [32-bit/64-bit Windows Service Installer \(pgp, md5\)](#)
- Full documentation:
  - [tar.gz \(pgp, md5\)](#)
- Deployer:
  - [zip \(pgp, md5\)](#)
  - [tar.gz \(pgp, md5\)](#)
- Extras:
  - [JMX Remote jar \(pgp, md5\)](#)
  - [Web services jar \(pgp, md5\)](#)
  - [JULI adapters jar \(pgp, md5\)](#)
  - [JULI log4j jar \(pgp, md5\)](#)
- Embedded:
  - [tar.gz \(pgp, md5\)](#)
  - [zip \(pgp, md5\)](#)

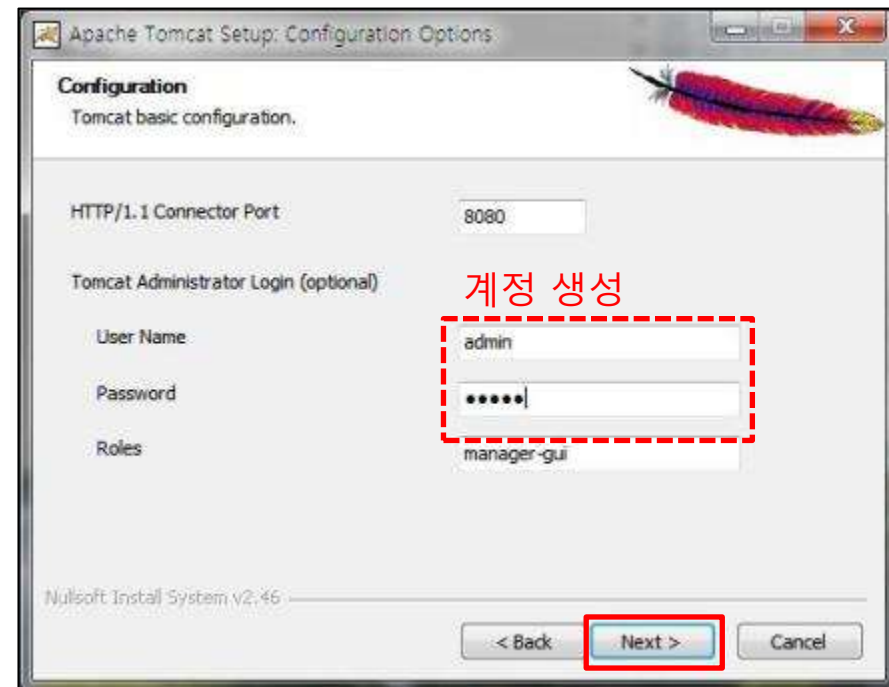
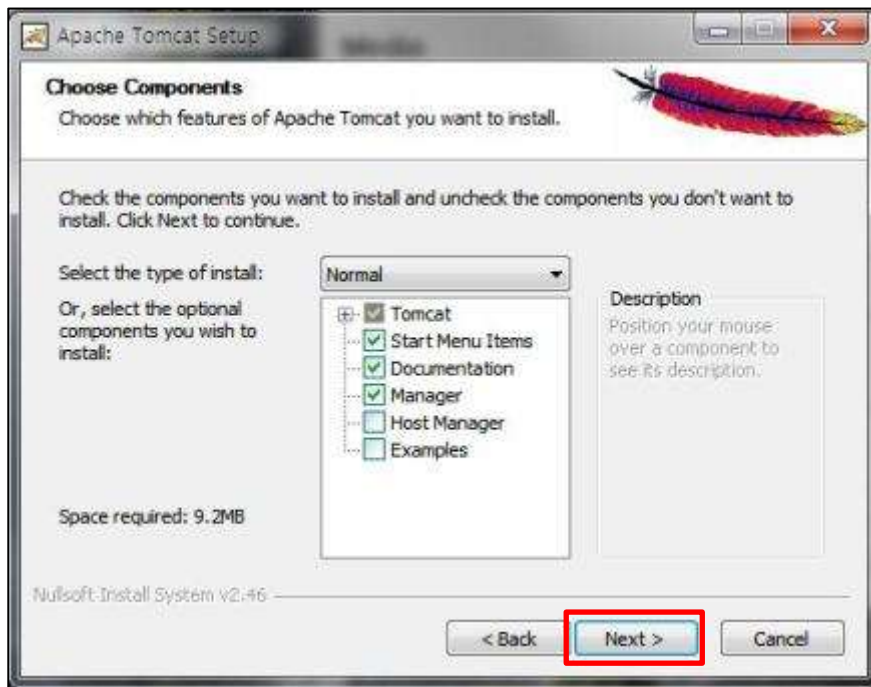
# Tomcat 설치

- apache-tomcat-7.0.12.exe 실행

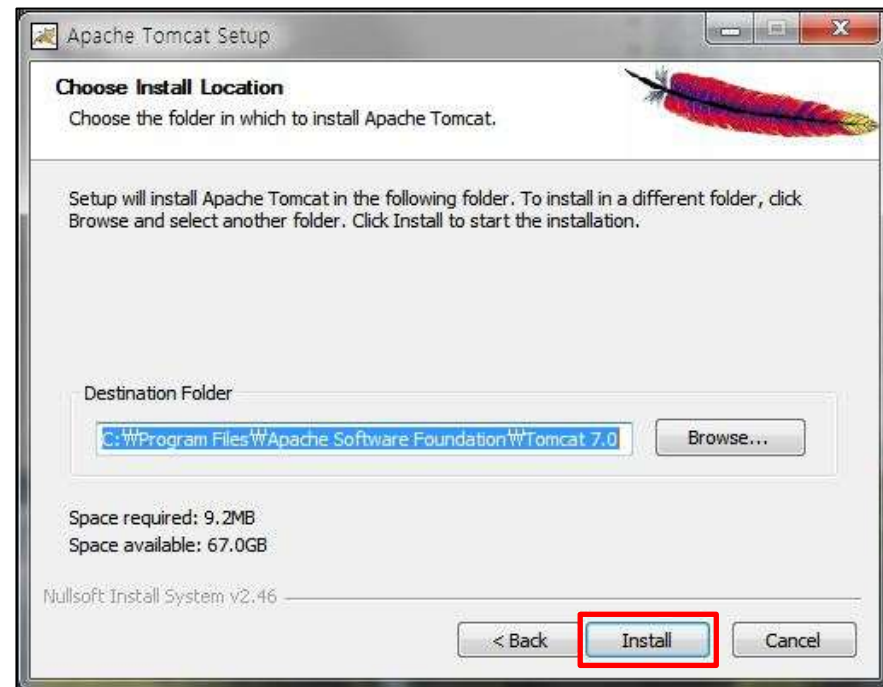
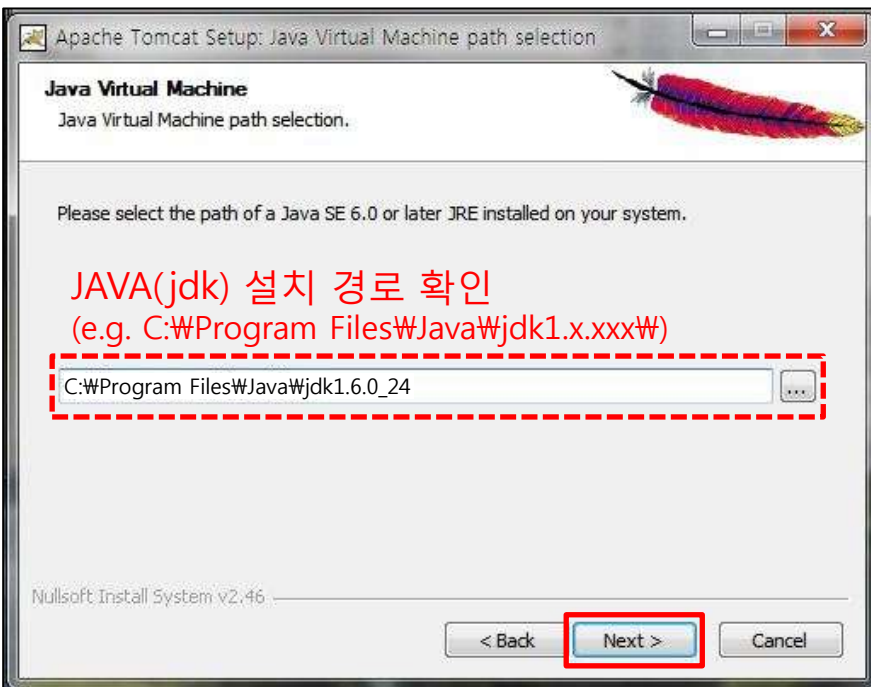




# Tomcat 설치 (Cont.)

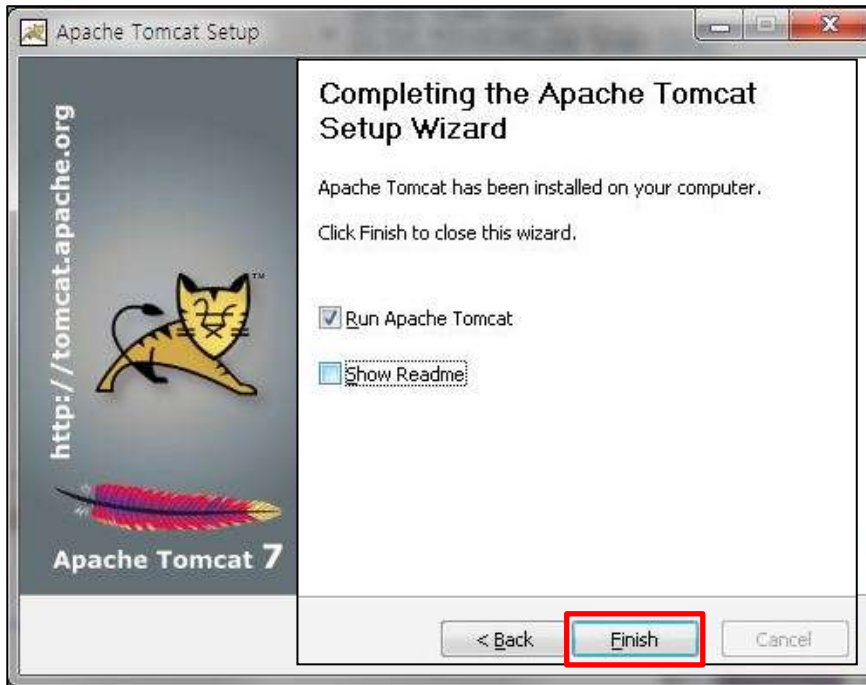


# Tomcat 설치 (Cont.)



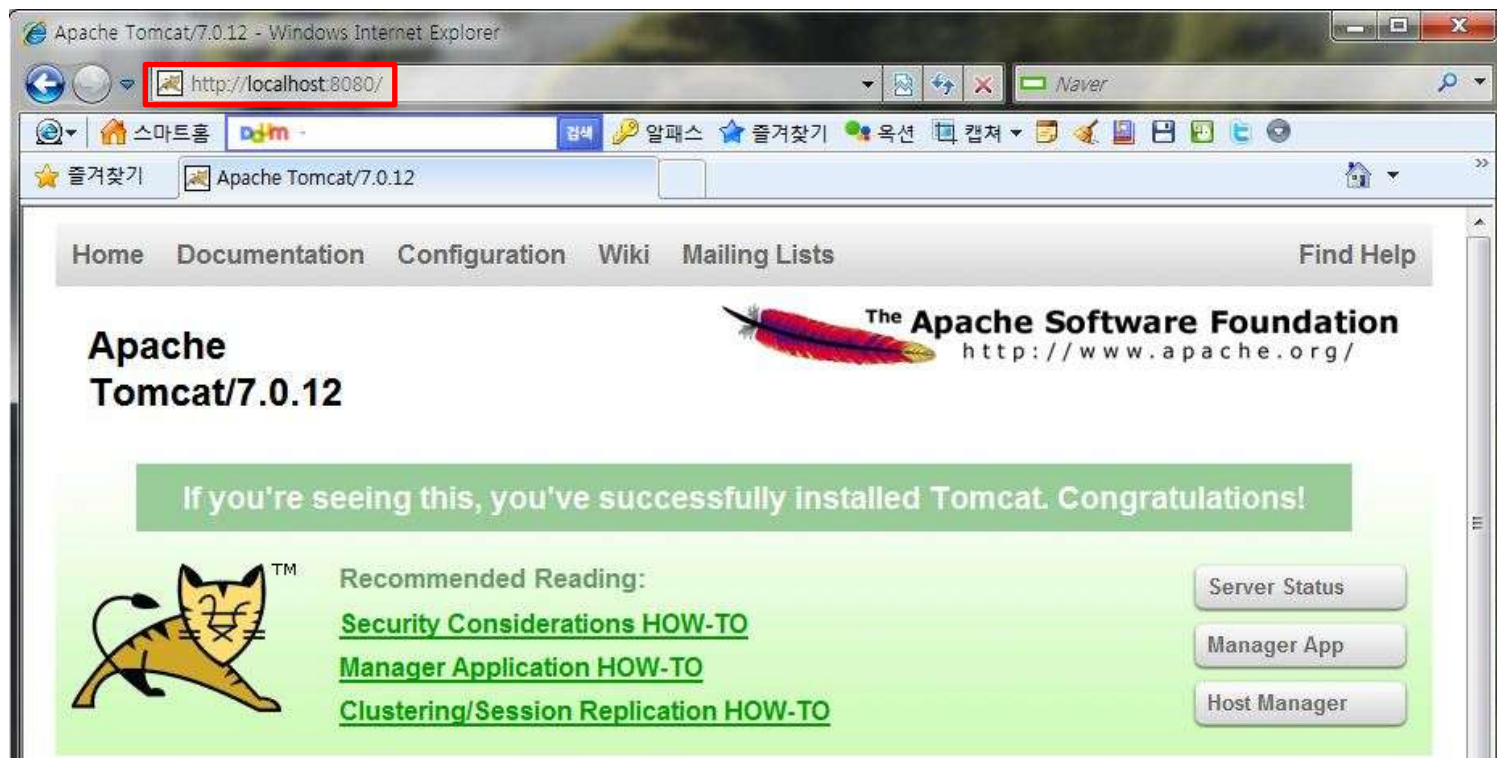


# Tomcat 설치 (Cont.)



# Tomcat 설치 (Cont.)

- 설치 확인
  - 작업 표시줄 Tray Icon 확인
  - <http://localhost:8080> 확인



# MYSQL 설치

# MySQL이란?

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- MySQL은 다중 스레드, 다중 사용자 형식의 구조 질의어 형식의 데이터베이스 관리 시스템이다. 응용프로그램에서 MySQL 데이터베이스에 접근하기 위해 다수의 프로그래밍 언어로 된 API를 사용할 수 있다.
- 또한 MySQL은 공식적으로 C/C++, JAVA, 파이썬, 루비, perl, PHP등의 프로그래밍 언어를 지원하며 MySQL은 미디어위키와 드루팔 같은 인기 있는 웹 응용프로그램에서도 사용된다.

# MySQL Download

- <http://www.mysql.com/> 접속 후 Downloads(GA) 탭 선택
- MySQL Community Server Download 선택



# MySQL Download


- Windows (x86, 32-bit 또는 64-bit), MSI Installer를 Download

## MySQL Community Server 5.5.27

Select Platform:

Select

<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-5.5.27-win32.msi)	5.5.27	31.1M	<a href="#">Download</a>
	MD5: cc877b228248774152b998afe5a18eda   <a href="#">Signature</a>		
<b>Windows (x86, 64-bit), MSI Installer</b> (mysql-5.5.27-winx64.msi)	5.5.27	32.6M	<a href="#">Download</a>
	MD5: 5f935240f98115a5b40fcc5bfff3f092e   <a href="#">Signature</a>		
<b>Windows (x86, 64-bit), ZIP Archive</b> (mysql-5.5.27-winx64.zip)	5.5.27	145.4M	<a href="#">Download</a>
	MD5: 774ba843ca899c50ac80a22ff217ad9d   <a href="#">Signature</a>		
<b>Windows (x86, 32-bit), ZIP Archive</b> (mysql-5.5.27-win32.zip)	5.5.27	143.0M	<a href="#">Download</a>
	MD5: 720a2488857398de4ab54b4aa01b1d99   <a href="#">Signature</a>		
<b>Windows (x86, 32-bit), ZIP Archive</b> (mysql-5.5.27.zip)	5.5.27	28.0M	<a href="#">Download</a>
	MD5: d600887a978e4da2eac412fb8fc0c442   <a href="#">Signature</a>		

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

# MySQL Download

- » No thanks, just take me to the downloads! 선택

## Begin Your Download - mysql-5.5.27-winx64.msi

Please take the time to let us know about you.

If this is the first time you have downloaded from us, you will be sent a password to enable you to log into all of the MySQL web sites, including forums and bugs.

If you already have a MySQL.com account, save time by logging in now.

### Returning Users

*Save time by logging in*

Email:

Password:

[Forgot your password?](#)

Login

### New Users

*Proceed with registration*

Proceed

**» No thanks, just start my download!**

# MySQL Download

- Mirror site 선택 후 다운로드 진행

**You are downloading:**

mysql-5.5.17-win32.msi

To make this download faster, please choose a mirror site close to you from the list below.

## **Mirrors in: *Korea, Republic of***

We have looked up your IP address using [MaxMind GeoIP](#), and believe that these mirrors may be closest to you. A complete list of mirrors by continent is below.

•  [Kyung Hee University Linux User Group](#) [HTTP](#) [FTP](#)

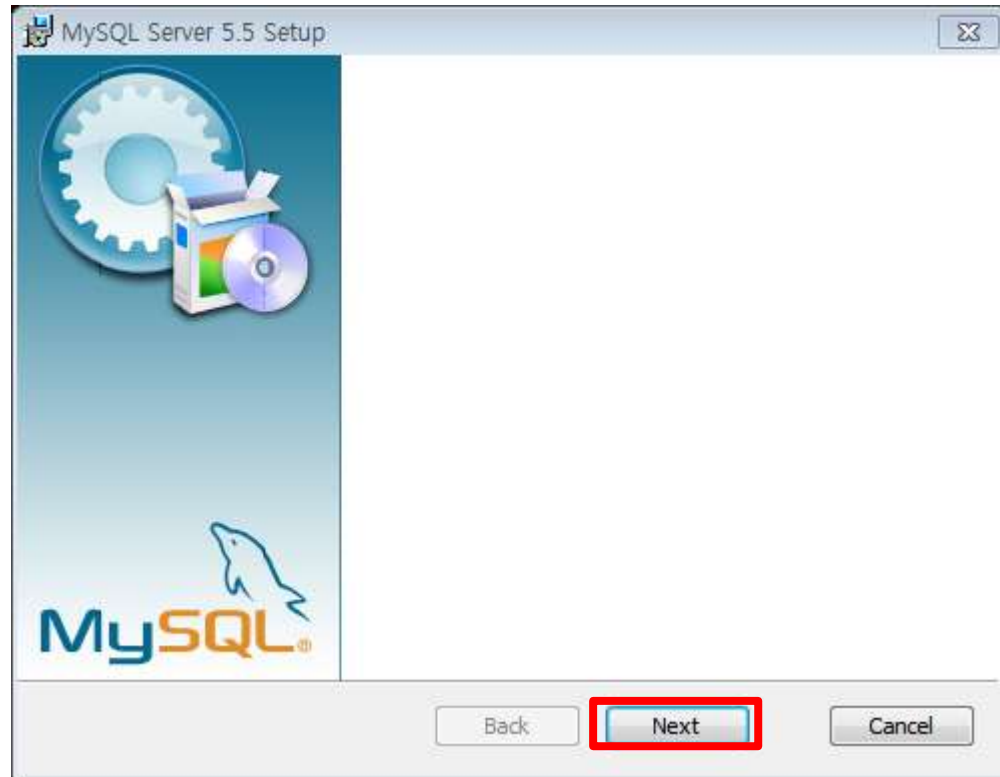
## **Europe**

	Univ. of Technology / Vienna, Austria	<a href="#">HTTP</a> <a href="#">FTP</a>
	Kangaroot Linux Solutions, Belgium	<a href="#">HTTP</a> <a href="#">FTP</a>
	Easynet, Belgium	<a href="#">HTTP</a> <a href="#">FTP</a>
	Silicon Hill, Czech Republic	<a href="#">HTTP</a> <a href="#">FTP</a>
	Masaryk University in Brno, Czech Republic	<a href="#">HTTP</a> <a href="#">FTP</a>
	Borsen, Denmark	<a href="#">HTTP</a>
	dotsrc.org, Denmark	<a href="#">HTTP</a> <a href="#">FTP</a>
	Ircam / Paris, France	<a href="#">HTTP</a> <a href="#">FTP</a>
	ovh.net, Germany	<a href="#">HTTP</a> <a href="#">FTP</a>
	SunSITE Central Europe, Germany	<a href="#">HTTP</a> <a href="#">FTP</a>
	GWDG, Germany	<a href="#">HTTP</a> <a href="#">FTP</a>



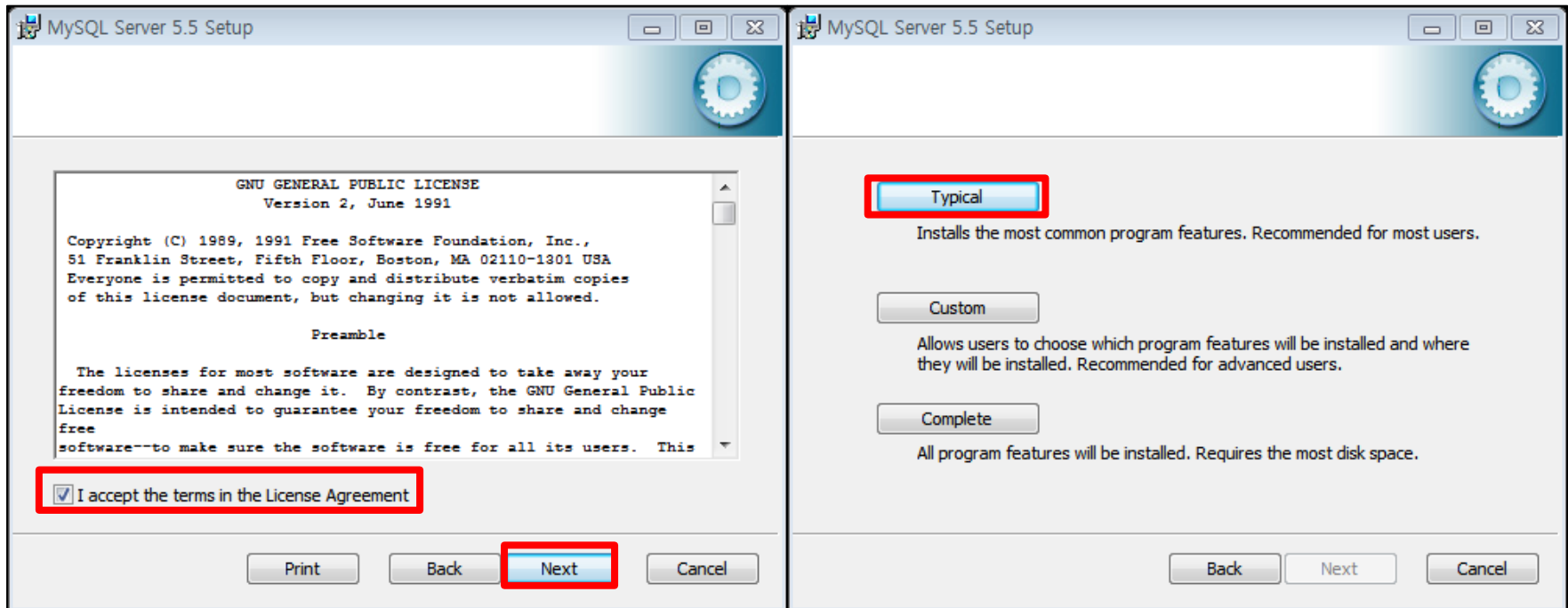
# MySQL 설치

- 설치파일 실행
  - next 선택

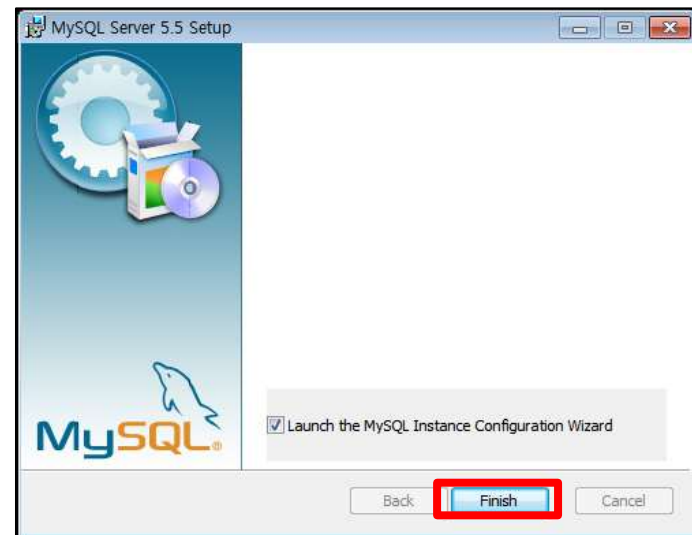
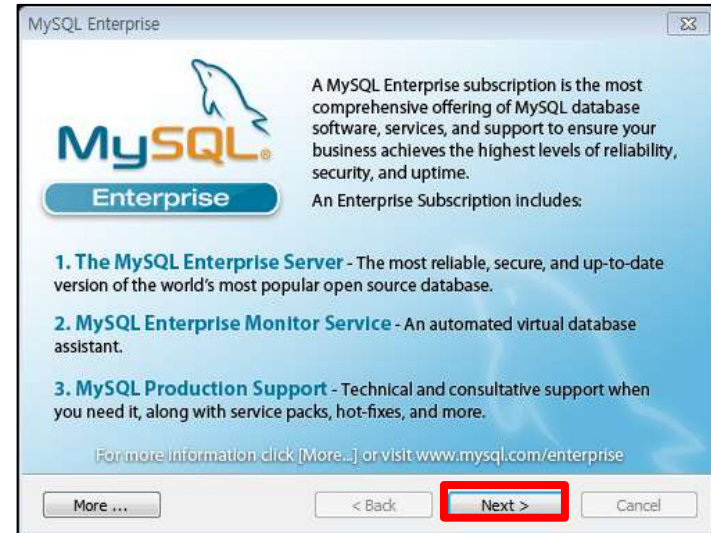
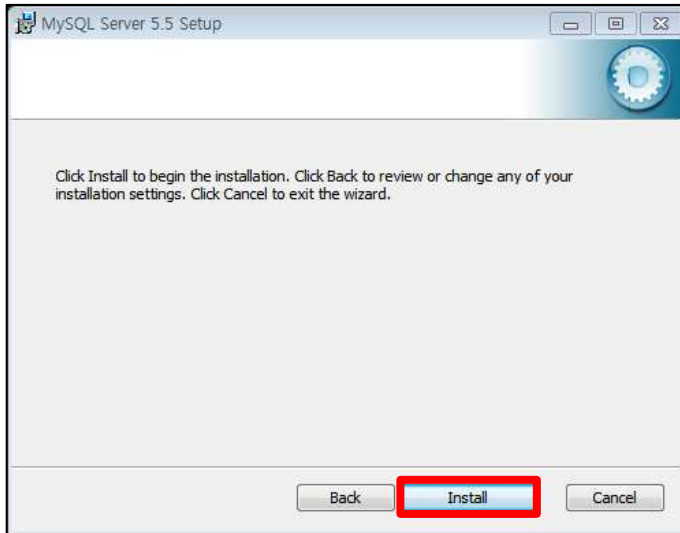


# MySQL 설치

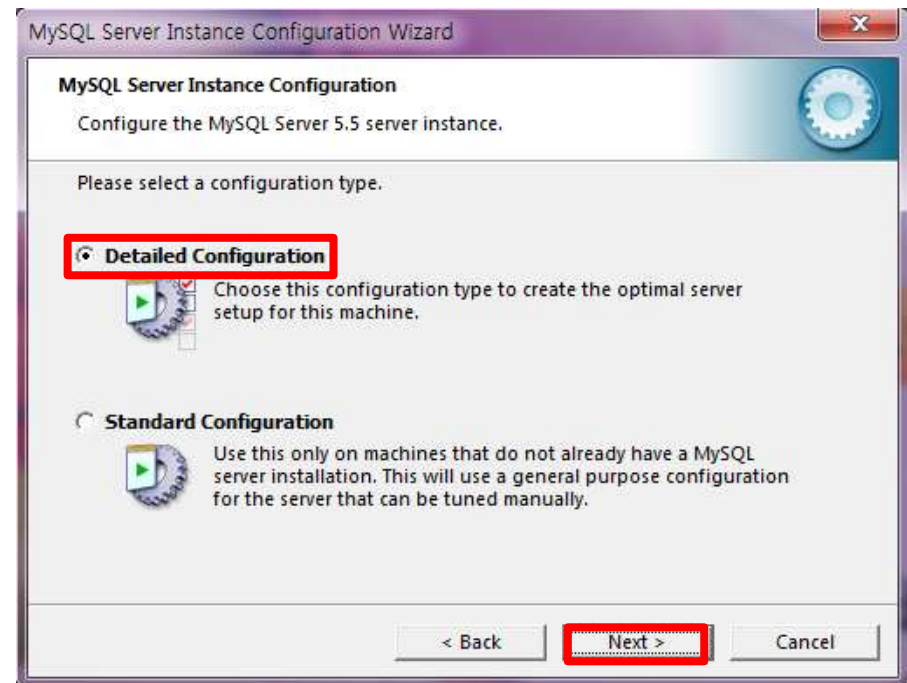
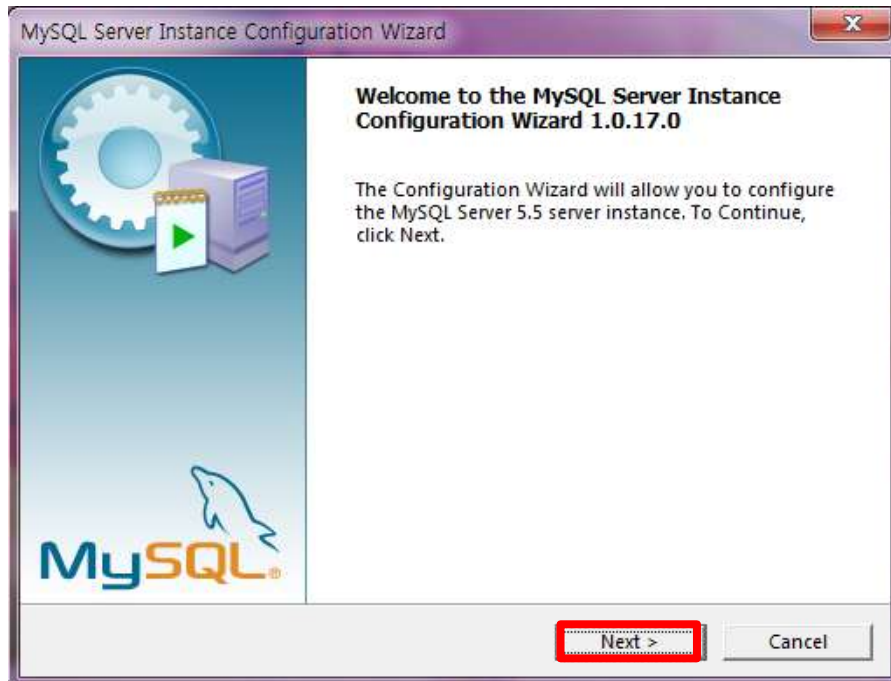
- I accept the terms in the License Agreement 선택 후 Next
- Typical 선택



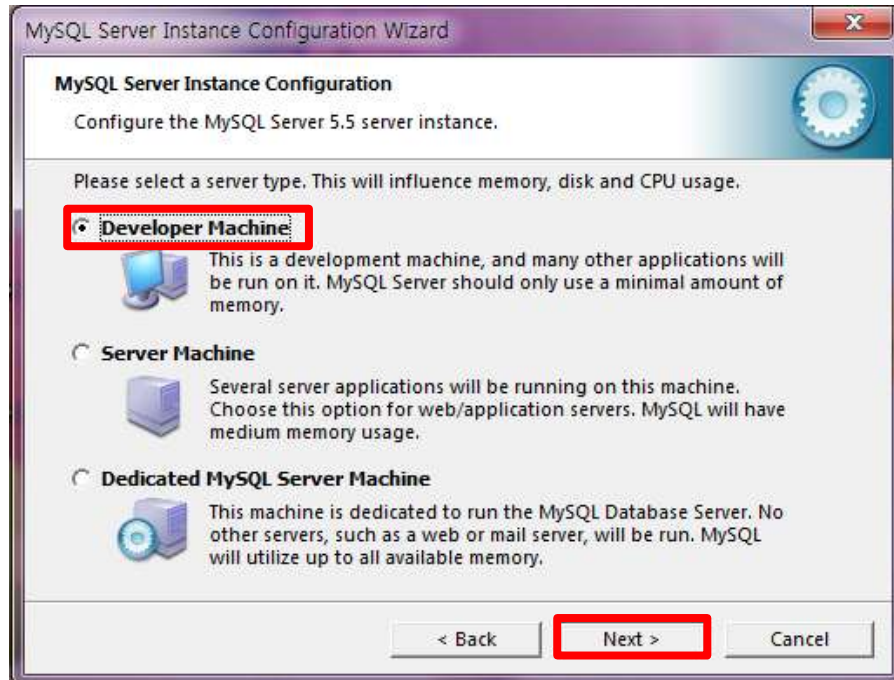
# MySQL 설치



# MySQL 설치



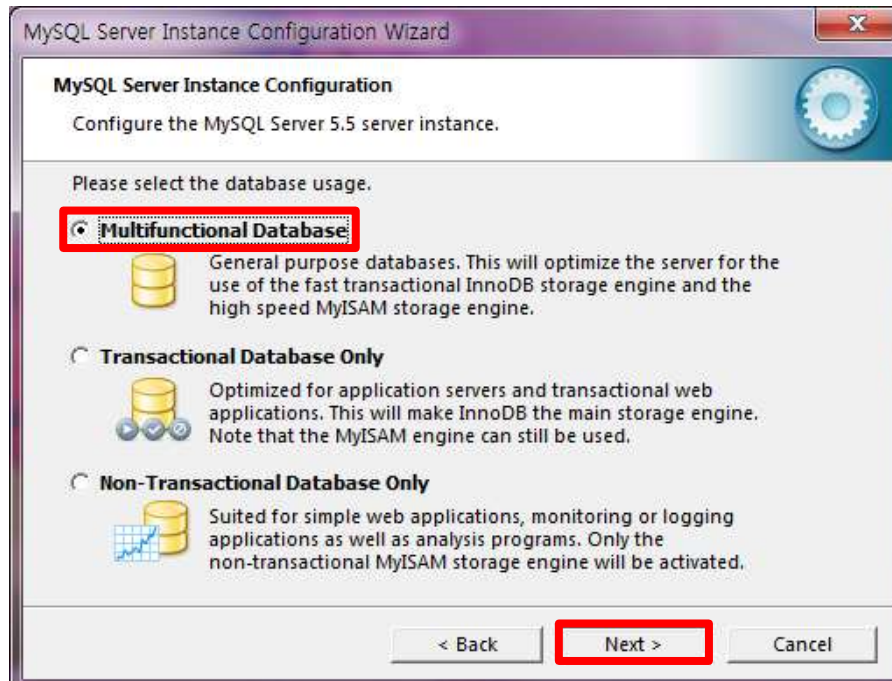
# MySQL 설치



- Developer Machine
  - MySQL 개인적으로 사용을 할 때, 최소한의 resource만을 사용하도록 구성.
- Server Machine
  - 여러 다른 서버 어플리케이션과 MySQL을 사용할 때, 중간 정도의 resource를 사용하도록 구성.
- Dedicated MySQL Server Machine
  - 오직 MySQL 서버만을 사용할 때, 시스템의 전체 자원을 사용하도록 구성.

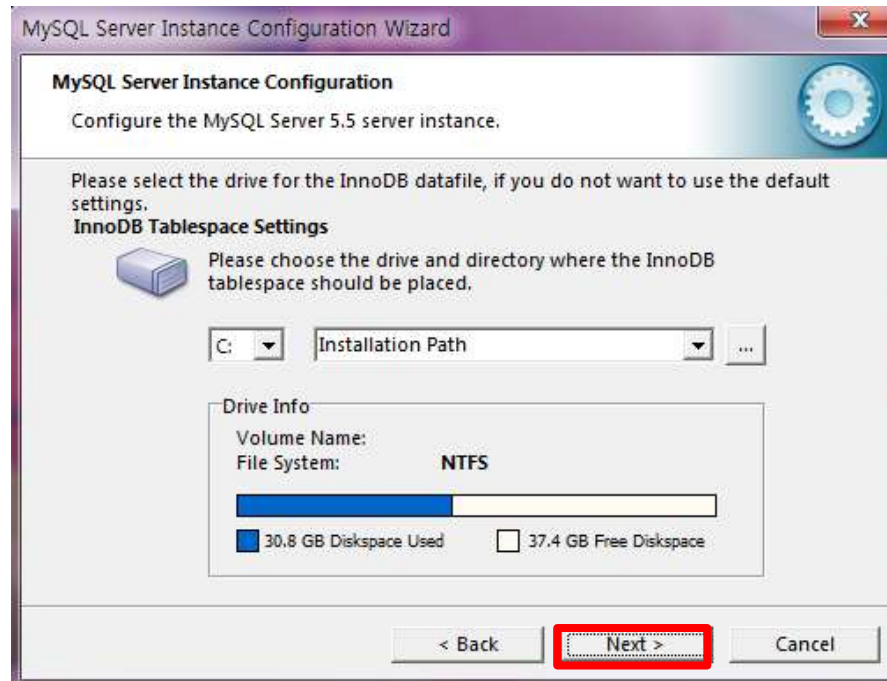
# MySQL 설치

- MySQL Storage Engine
  - InnoDB
    - Transaction 처리가 필요하고 높은 성능을 요구하는 대용량 대용량 사이트에서 사용시 효율적.
    - 따라서, 데이터의 변경이 많은 업무에 효과적.
  - MyISAM
    - 주로 DB 조회(read) 작업이 많은 소규모 사이트인 경우에 효율적.



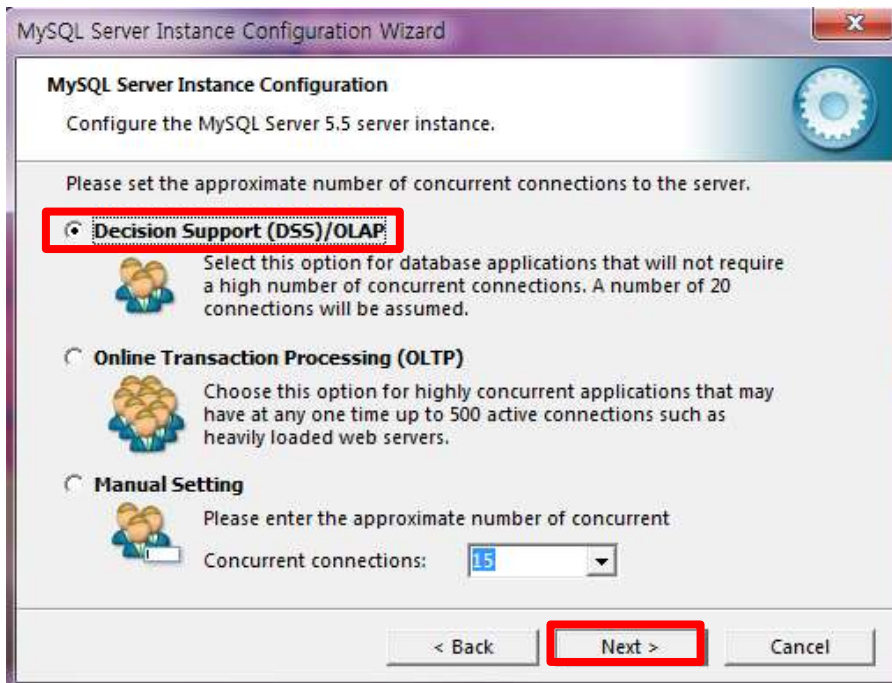
- Multifunctional Database
  - InnoDB와 MyISAM storage engine을 균등하게 사용.
- Transactional Database Only
  - InnoDB에 대부분의 자원을 할당하며, MyISAM을 최소한으로 사용.
- Non-Transactional Database Only
  - MyISAM만을 사용.

# MySQL 설치





# MySQL 설치

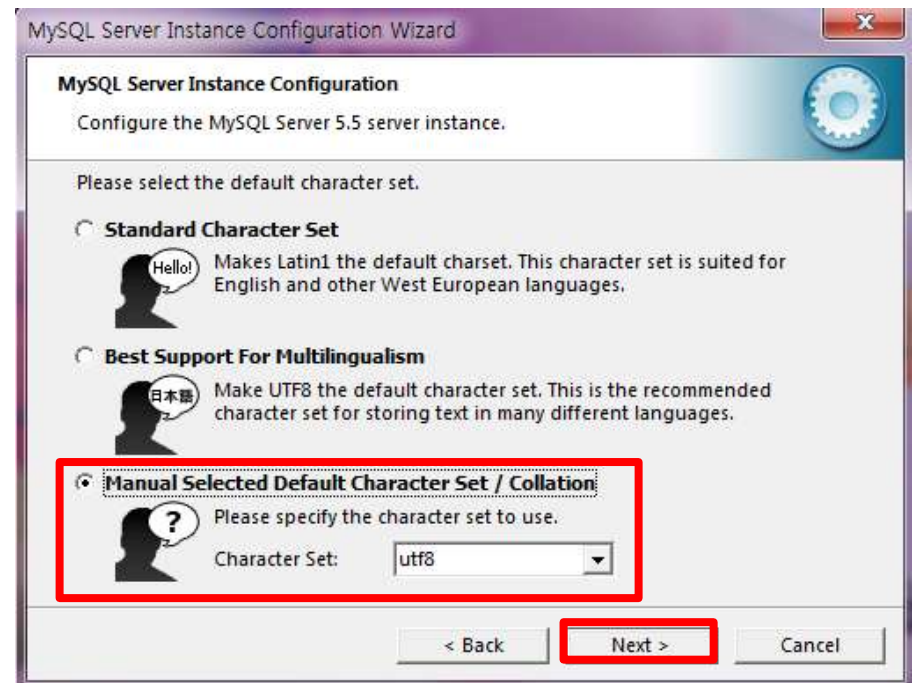
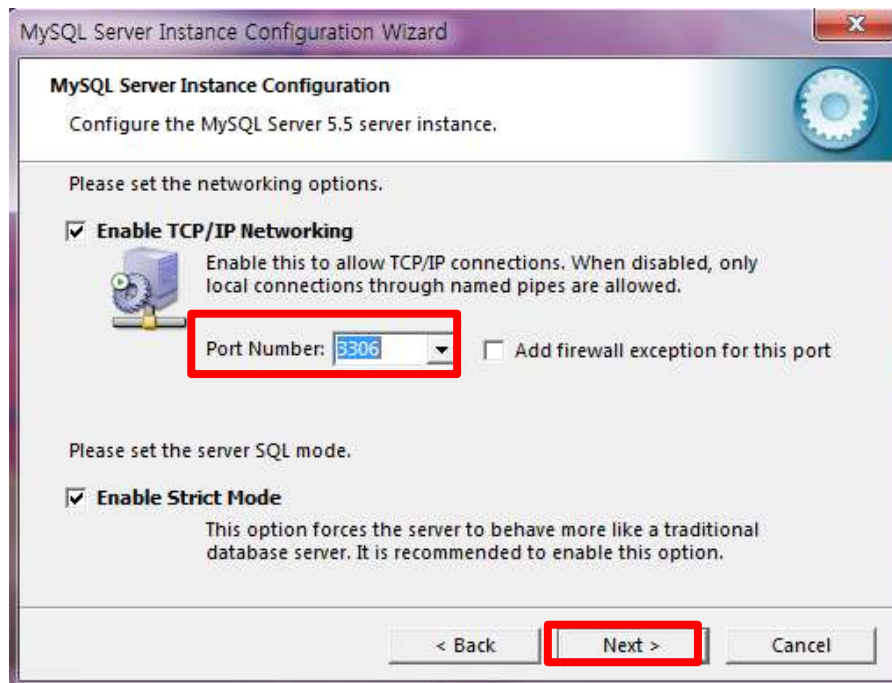


- Decision Support (DSS)/OLAP
  - 소수의 동시 접속을 사용할 경우.  
동시 접속은 평균 20, 최대 100까지 가능.
- Online Transaction Processing (OLTP)
  - 다수의 동시 접속을 사용할 경우.  
동시 접속은 최대 500까지 가능
- Manual Setting
  - 수동으로 동시 접속 최대를 설정할 경우.



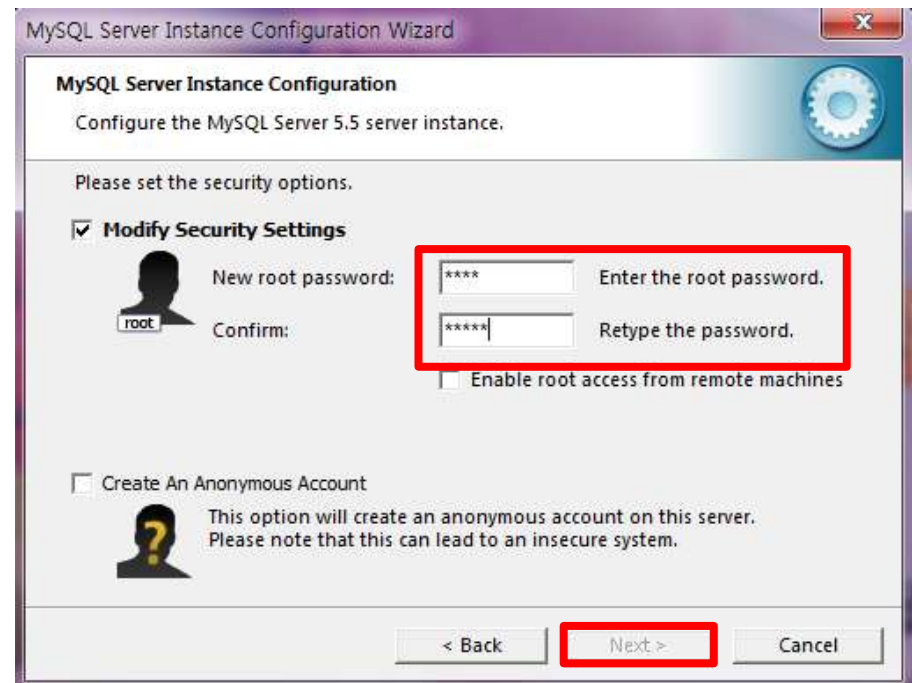
# MySQL 설치

- Port : 3306(MySQL 기본 포트번호)
- Manual Selected Default Character Set / Collation에서 utf8 선택



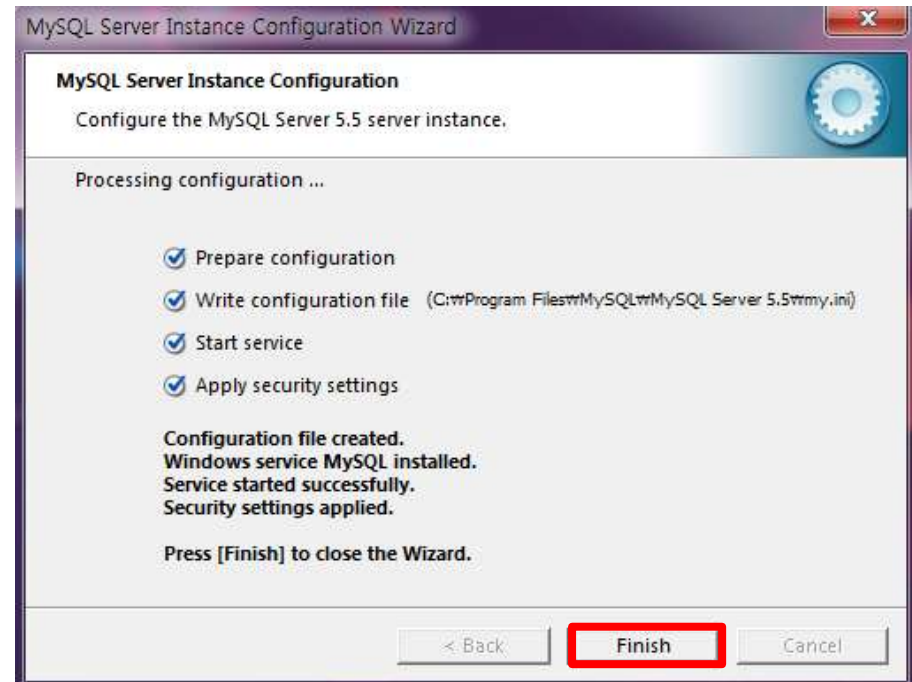
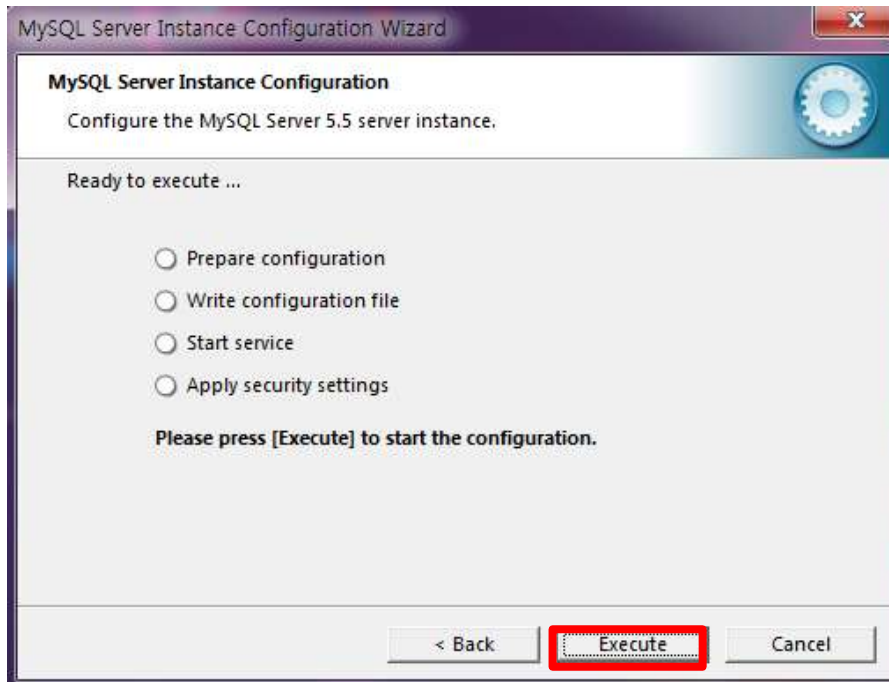
# MySQL 설치

- 'Include Bin Directory in Windows PATH' 선택 후, Next 클릭
- root 계정의 패스워드는 tiger로 설정



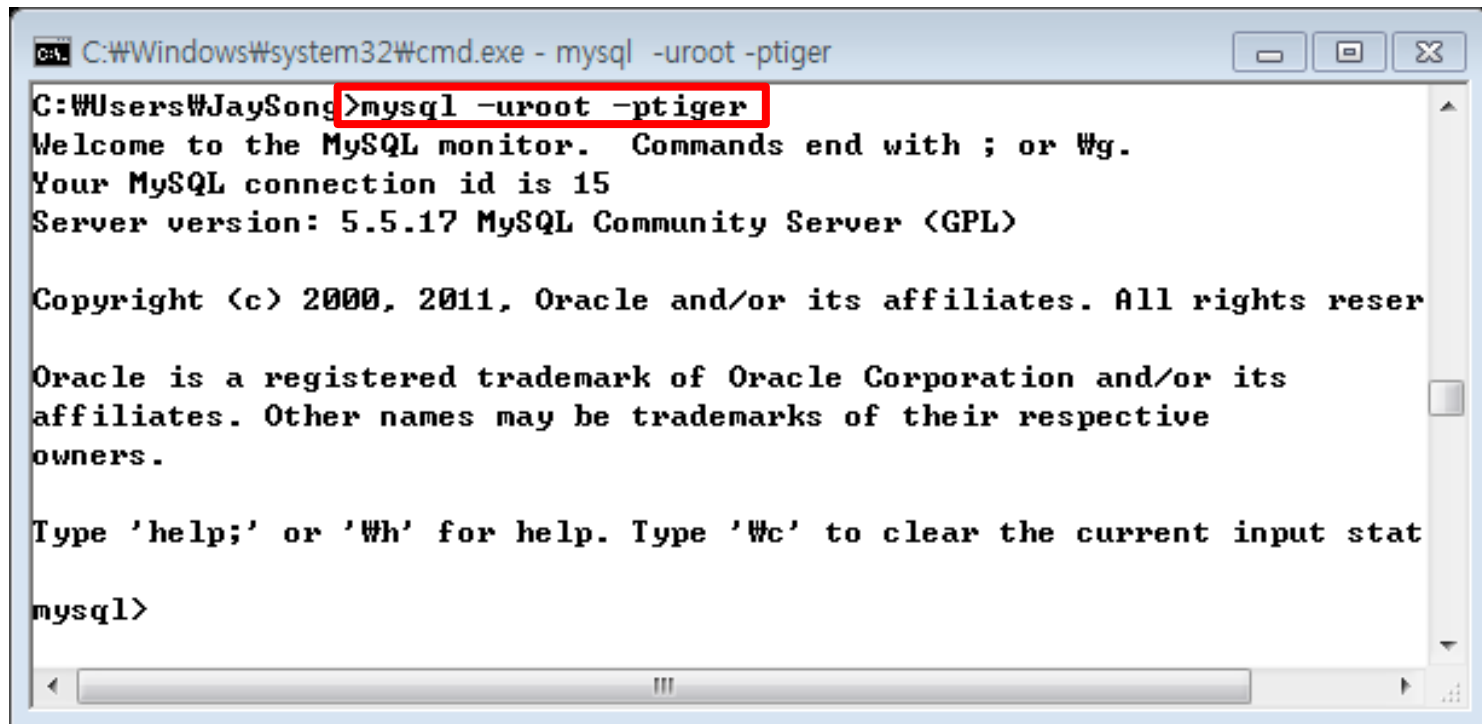
# MySQL 설치

- Excute 선택
- 설치 완료 후 Finish 선택



# MySQL 접속

- Command 창에서 mysql -uroot -ptiger 입력
  - 명령어 : mysql -uroot -ptiger database
    - -u 옵션 : user이름을 'root' 설정
    - -p 옵션 : 암호(tiger)를 사용하여 접속
    - database : 해당 database로 접속



```
C:\Windows\system32\cmd.exe - mysql -uroot -ptiger
C:\Users\JaySong>mysql -uroot -ptiger
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 15
Server version: 5.5.17 MySQL Community Server (GPL)

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owners.

Type 'help;' or '\h' for help. Type '\w' to clear the current input statement.

mysql>
```

# SUBLIME EDITOR 설치

# Sublime Text 2 설치

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## Sublime Text 2

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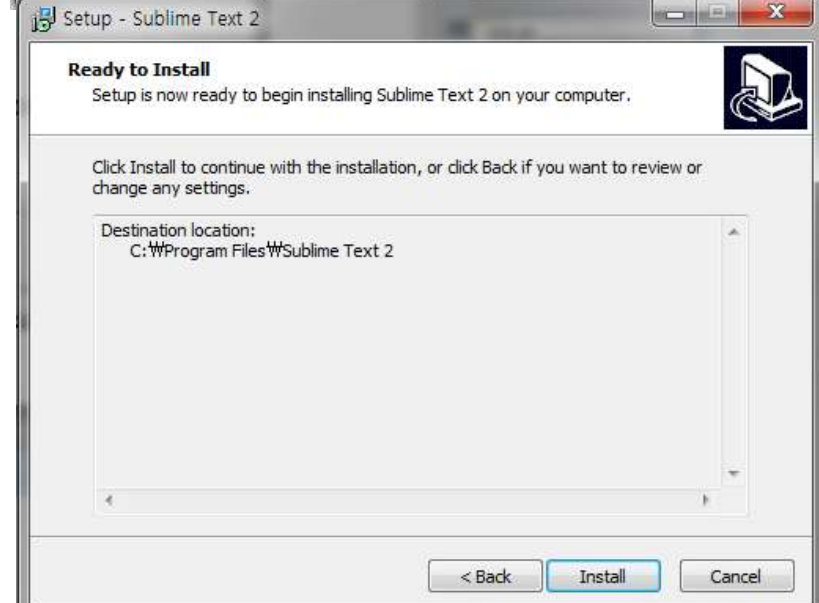
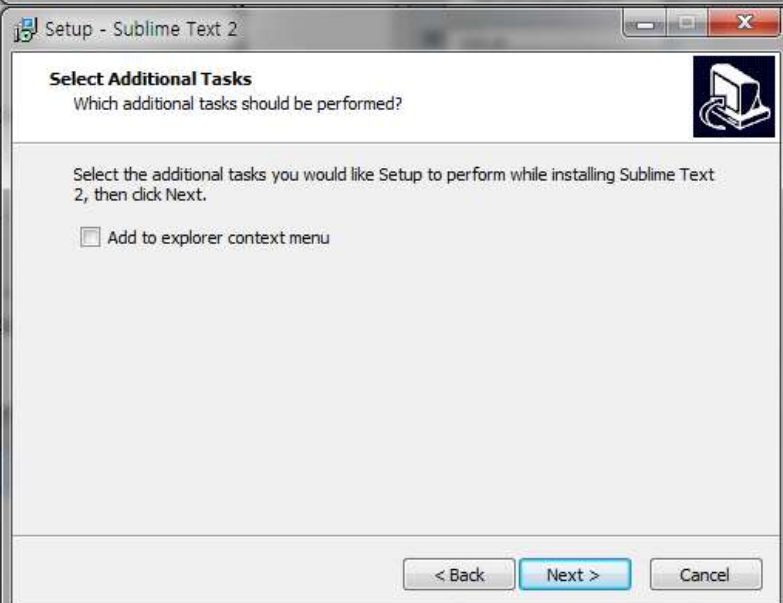
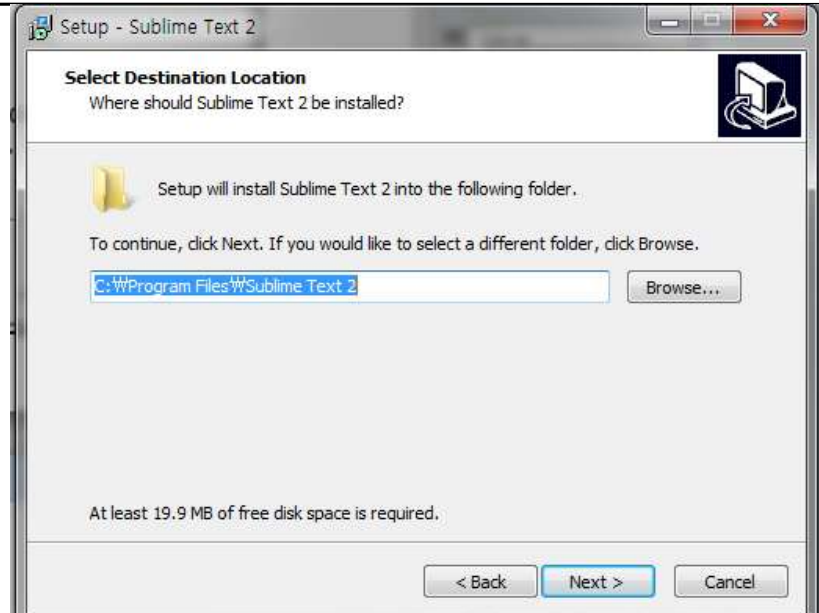
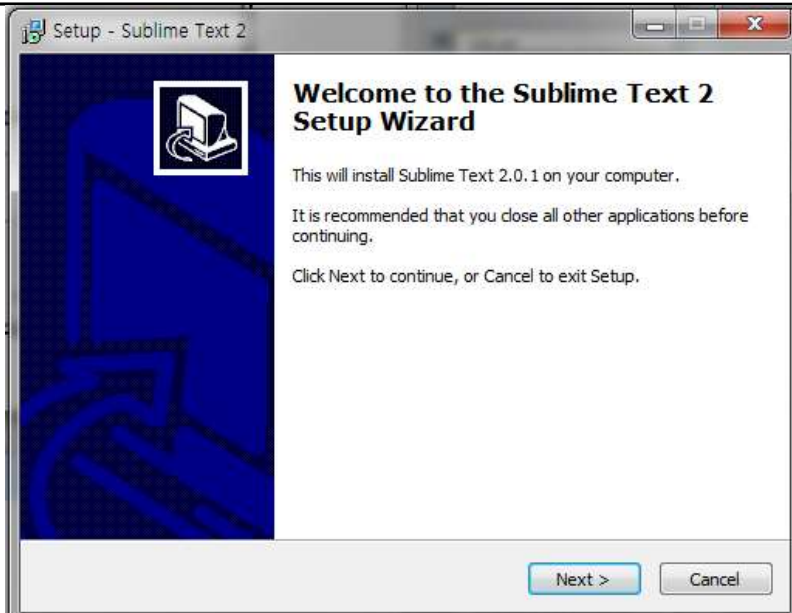
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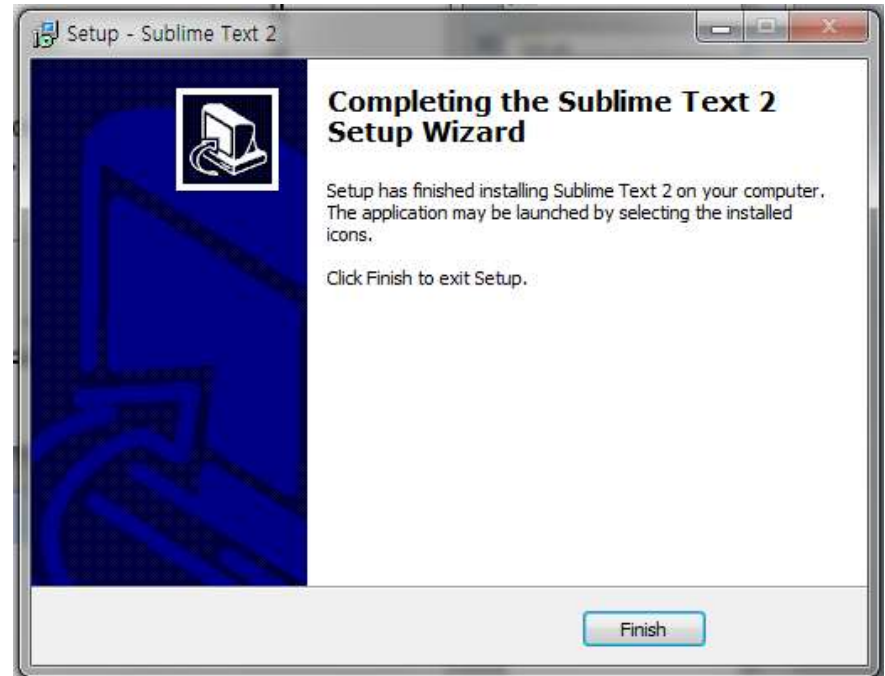
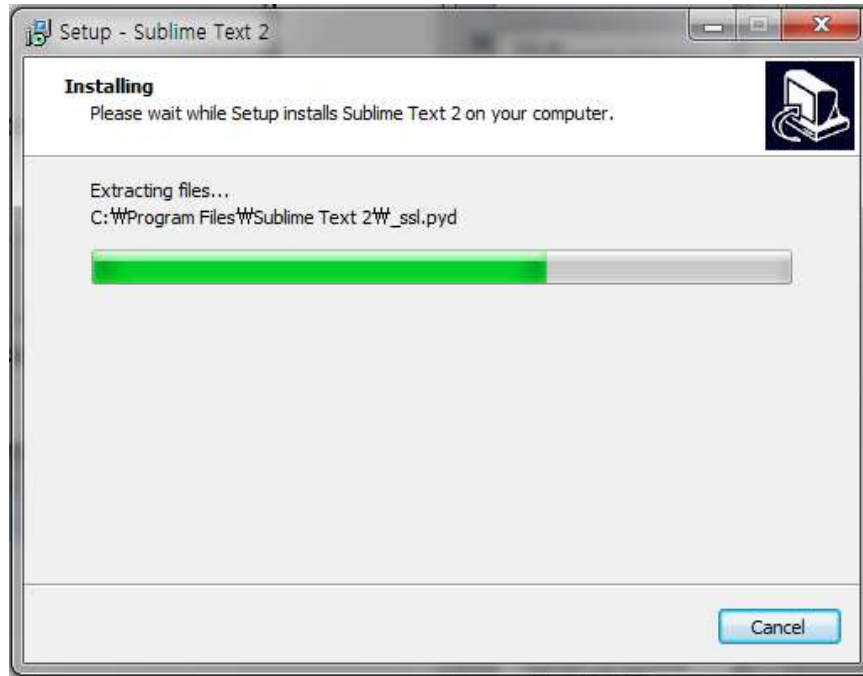
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# Sublime Text 2 설치(Cont.)





# Sublime Text 2 설치(Cont.)





# Sublime Text

