

The background features a large, abstract, wavy shape in shades of green and white, resembling a stylized wave or a flowing ribbon. The shape is composed of several overlapping, curved segments that create a sense of movement and depth. The colors range from a bright, vibrant green to a soft, pale green, with white highlights and shadows that give it a three-dimensional appearance. The overall effect is clean, modern, and organic.

테스트 환경 구축

테스트 환경 개요

- JDK
- Spring Tool Suite or Eclipse with spring plugin
- Apache Tomcat
- MySQL or Oracle
- Apache Maven

JDK 설치

- <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

Java SE Development Kit 8u45

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	146.89 MB	jdk-8u45-linux-i586.rpm
Linux x86	166.88 MB	jdk-8u45-linux-i586.tar.gz
Linux x64	145.19 MB	jdk-8u45-linux-x64.rpm
Linux x64	165.24 MB	jdk-8u45-linux-x64.tar.gz
Mac OS X x64	221.98 MB	jdk-8u45-macosx-x64.dmg
Solaris SPARC 64-bit (SVR4 package)	131.73 MB	jdk-8u45-solaris-sparcv9.tar.Z
Solaris SPARC 64-bit	92.9 MB	jdk-8u45-solaris-sparcv9.tar.gz
Solaris x64 (SVR4 package)	139.51 MB	jdk-8u45-solaris-x64.tar.Z
Solaris x64	95.88 MB	jdk-8u45-solaris-x64.tar.gz
Windows x86	175.97 MB	jdk-8u45-windows-i586.exe
Windows x64	180.42 MB	jdk-8u45-windows-x64.exe

- 환경변수 등록
 - JAVA_HOME
 - Path

Spring Tool Suite (STS) 설치

- <http://spring.io/tools/sts/all>



STS 3.6.4.RELEASE

New & Noteworthy



Windows

Based on Eclipse 4.4.2



Mac

Based on Eclipse 4.4.2



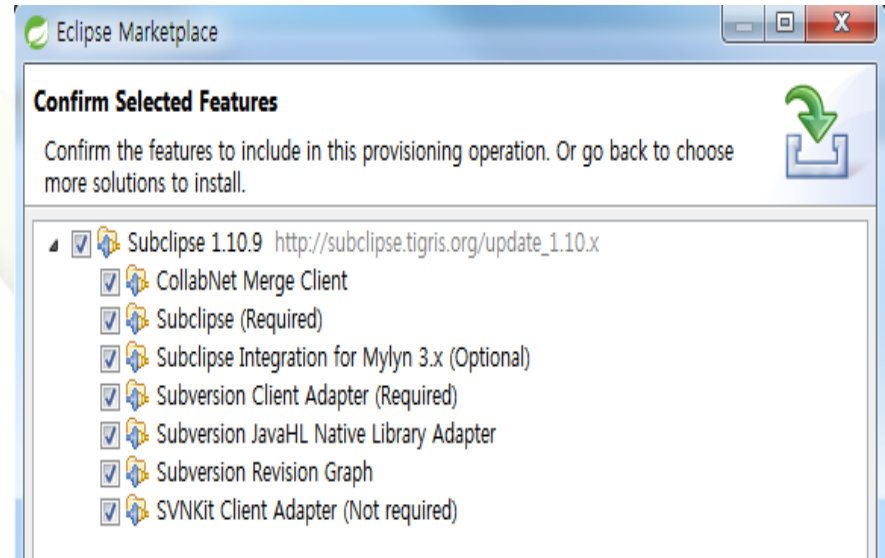
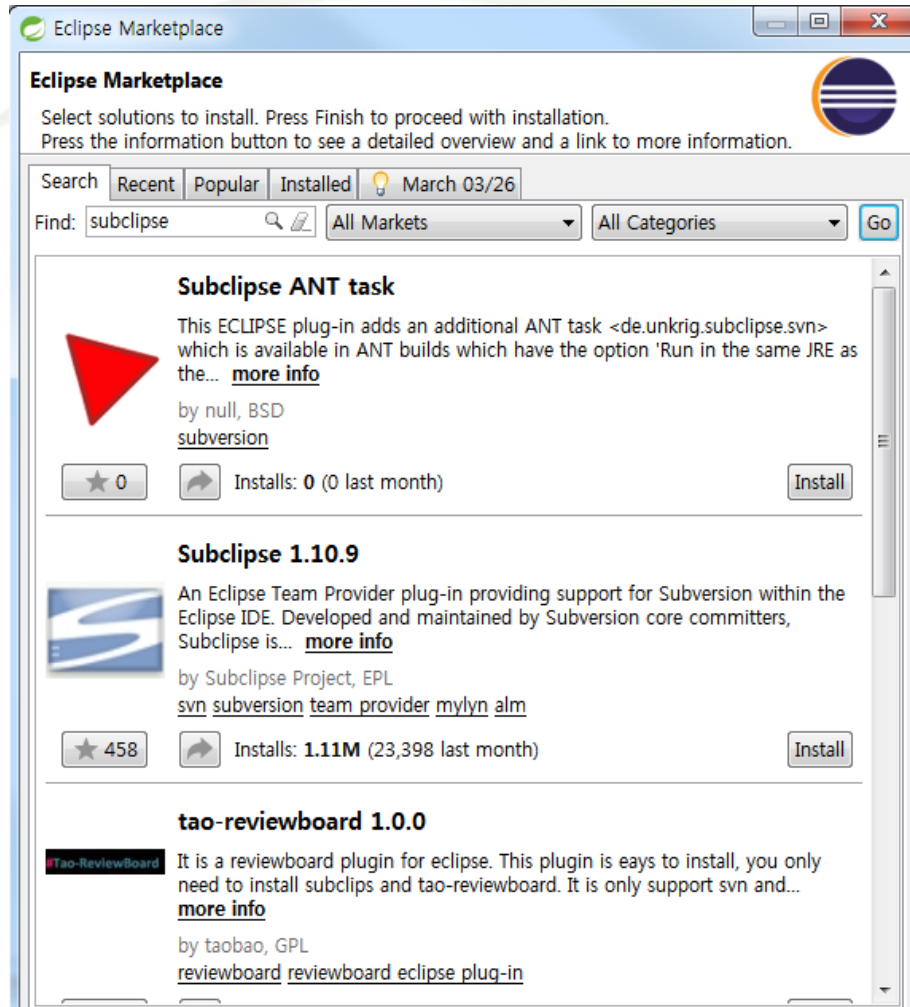
Linux

Based on Eclipse 4.4.2



STS Subclipse Plugin 설치

■ STS 메뉴에서 Help → Eclipse Marketplace 실행



Apache Tomcat 설치

- <http://tomcat.apache.org/download-80.cgi>

8.0.21

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

Binary Distributions

- Core:
 - [zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [tar.gz](#) ([pgp](#), [md5](#), [sha1](#))
 - [32-bit Windows zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [64-bit Windows zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [64-bit Itanium Windows zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [32-bit/64-bit Windows Service Installer](#) ([pgp](#), [md5](#), [sha1](#))
- Full documentation:
 - [tar.gz](#) ([pgp](#), [md5](#), [sha1](#))
- Deployer:
 - [zip](#) ([pgp](#), [md5](#), [sha1](#))
 - [tar.gz](#) ([pgp](#), [md5](#), [sha1](#))
- Extras:
 - [JMX Remote jar](#) ([pgp](#), [md5](#), [sha1](#))
 - [Web services jar](#) ([pgp](#), [md5](#), [sha1](#))
 - [JULI adapters jar](#) ([pgp](#), [md5](#), [sha1](#))
 - [JULI log4j jar](#) ([pgp](#), [md5](#), [sha1](#))
- Embedded:
 - [tar.gz](#) ([pgp](#), [md5](#), [sha1](#))
 - [zip](#) ([pgp](#), [md5](#), [sha1](#))

MySQL 설치

- <http://dev.mysql.com/downloads/>



The screenshot shows the MySQL website's 'Downloads' section. At the top, the MySQL logo is accompanied by the tagline 'The world's most popular open source database'. Below this is a navigation bar with tabs for 'MySQL.com', 'Downloads' (which is active), 'Documentation', and 'Developer Zone'. A secondary navigation bar lists various download options: 'Enterprise', 'Community' (highlighted in orange), 'Yum Repository', 'APT Repository', 'SUSE Repository', 'Windows', and 'Archives'. The main content area is titled 'MySQL Community Downloads'. On the left, a sidebar lists links: 'MySQL on Windows', 'MySQL Yum Repository', 'MySQL APT Repository', 'MySQL SUSE Repository', and 'MySQL Community Server'. The main content area features the 'MySQL Community Server (GPL)' section, which includes the text '(Current Generally Available Release: 5.6.24)' and a description: 'MySQL Community Server is the world's most popular open source database.' Below this description is a 'DOWNLOAD' link.

MySQL
The world's most popular open source database

MySQL.com Downloads Documentation Developer Zone

Enterprise **Community** Yum Repository APT Repository SUSE Repository Windows Archives

MySQL Community Downloads

MySQL on Windows

MySQL Yum Repository

MySQL APT Repository

MySQL SUSE Repository

MySQL Community Server

MySQL Community Server (GPL)

(Current Generally Available Release: 5.6.24)

MySQL Community Server is the world's most popular open source database.

DOWNLOAD

Apache Maven 설치

- <http://maven.apache.org/download.cgi>

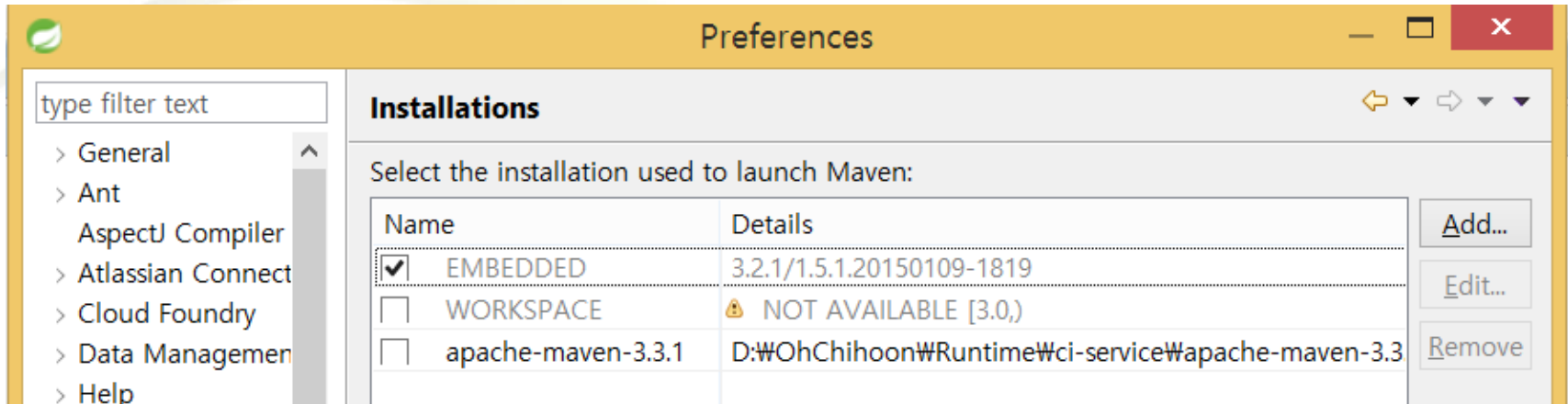
➔ Maven 3.3.1

This is the current stable version of Maven.

	Link
Maven 3.3.1 (Binary tar.gz)	apache-maven-3.3.1-bin.tar.gz
Maven 3.3.1 (Binary zip)	apache-maven-3.3.1-bin.zip
Maven 3.3.1 (Source tar.gz)	apache-maven-3.3.1-src.tar.gz
Maven 3.3.1 (Source zip)	apache-maven-3.3.1-src.zip
Release Notes	3.3.1
Release Reference Documentation	3.3.1

Apache Maven 설정

- STS → Window → Preferences → Maven → Installations (선택적)

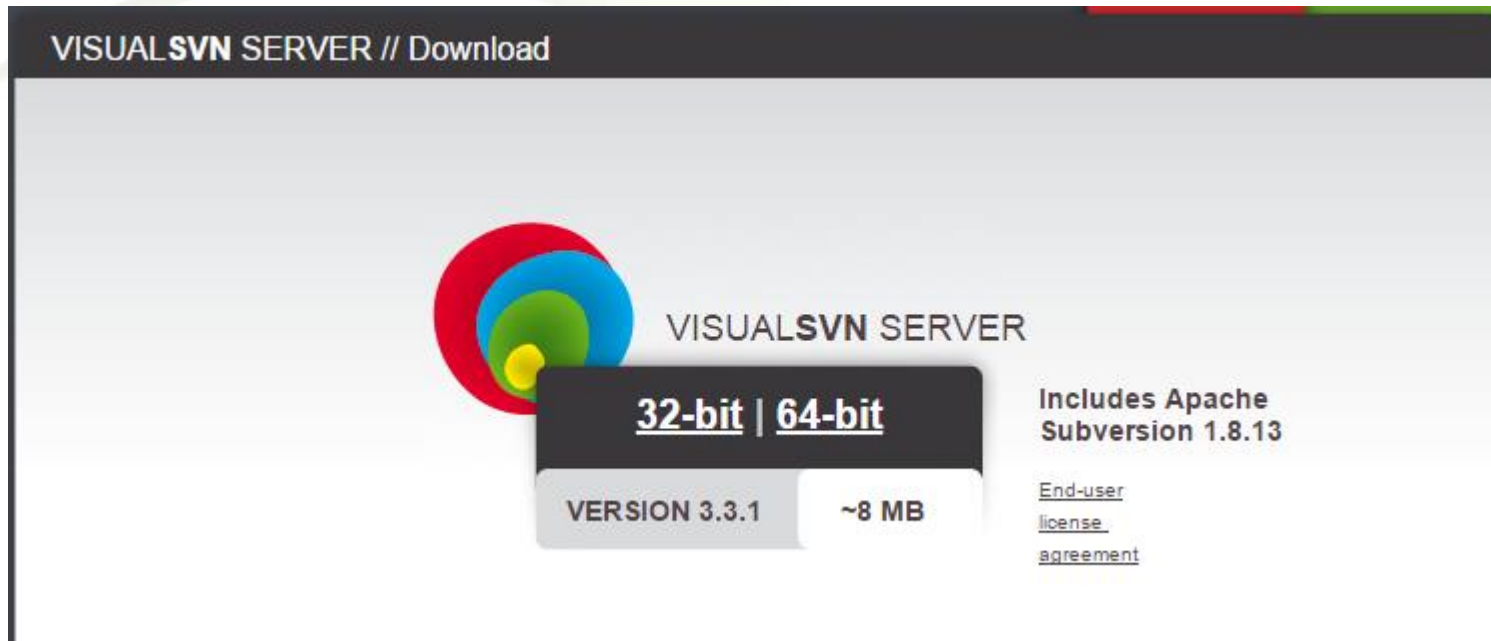


- 환경변수 등록

- MAVEN_HOME
- Path : %MAVEN_HOME%\bin

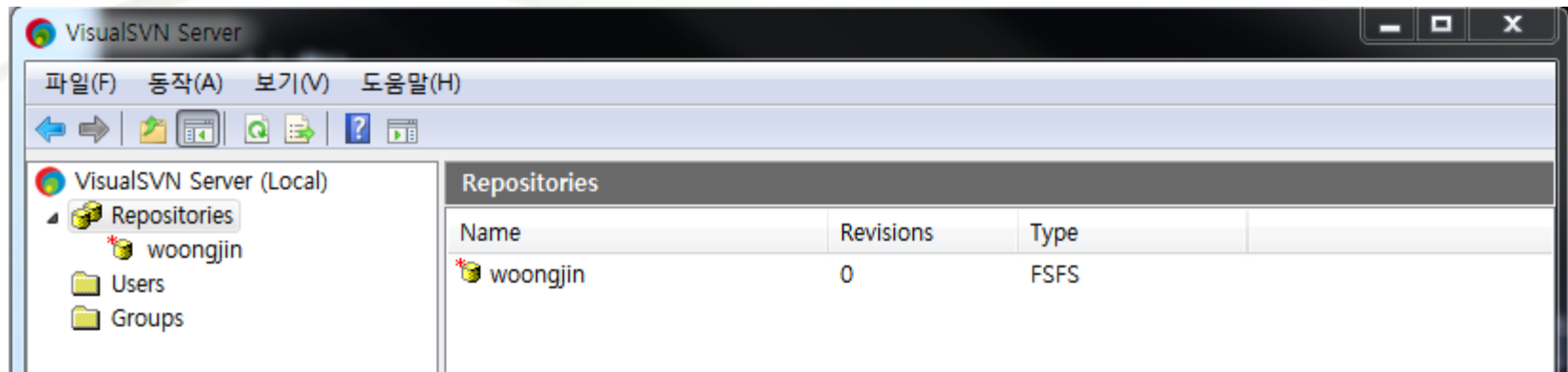
Subversion (VisualSVN) 설치

- <https://www.visualsvn.com/server/download/>

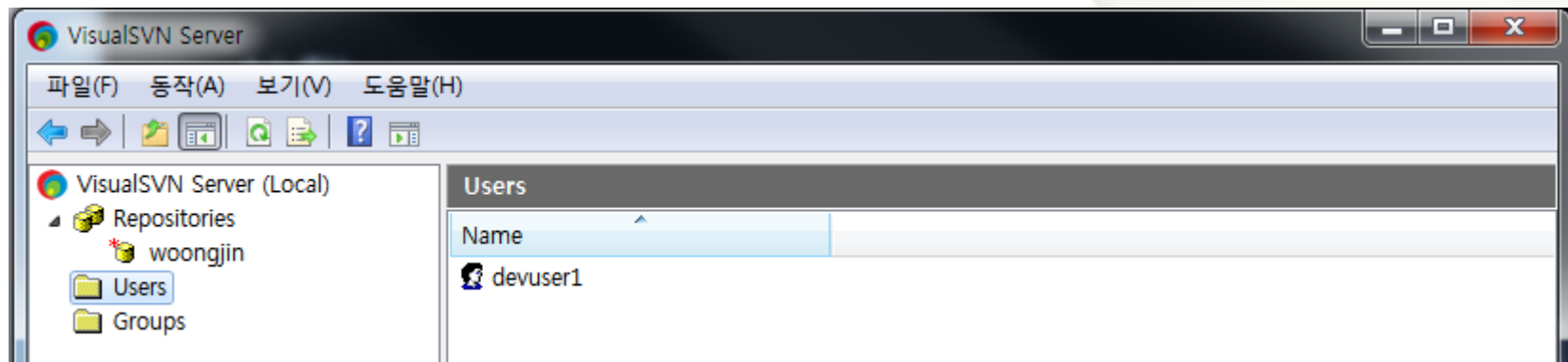


Subversion 저장소 및 사용자 생성

■ 저장소 생성



■ 사용자 생성



실습1. Maven 프로젝트 생성, 빌드, 배포

1. 명령 프롬프트 실행

2. Maven 설치 및 환경변수 등록 확인

`mvn -version`

오류 발생시 Path 환경변수 확인

3. Maven 프로젝트를 만들 경로로 이동

4. Maven 프로젝트 생성 스크립트 실행

`mvn archetype:generate -DgroupId=com.mvnexample -DartifactId=maven-app -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false`

5. 프로젝트 생성 확인

실습1. Maven 프로젝트 생성, 빌드, 배포

1. 명령 프롬프트 실행

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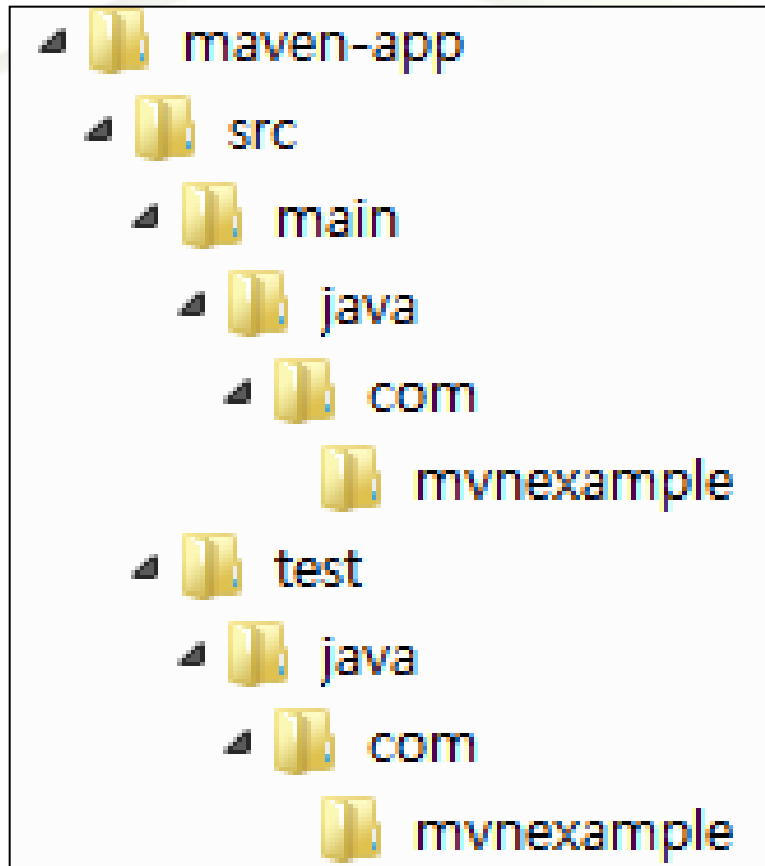
3. Maven 프로젝트를 만들 경로로 이동

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```

실습1. Maven 프로젝트 생성, 빌드, 배포

5. 프로젝트 생성 및 구조 확인



참고. Maven 명령 실행

▪ 명령 구조

```
mvn [options] [<goal(s)>] [<phase(s)>]
```

- phase만 지정할 경우 해당 phase의 기본 goal 실행
- goal은 plugin:goal 형식으로 지정
- Example
 - mvn clean → clean phase의 기본 goal 실행
 - mvn clean test → clean phase 및 test phase의 기본 goal을 순서대로 실행
 - mvn compile:compile → compile plugin으로 compile goal 실행
 - mvn -Dmaven.test.skip=true package → test를 생략하고 package phase의 기본 goal 실행

참고. Maven Lifecycle Phase & Default Goal

Clean Lifecycle Bindings

clean	clean:clean
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Default Lifecycle Bindings - Packaging `ejb` / `ejb3` / `jar` / `par` / `rar` / `war`

process-resources	resources:resources
compile	compiler:compile
process-test-resources	resources:testResources
test-compile	compiler:testCompile
test	surefire:test
package	ejb:ejb <i>or</i> ejb3:ejb3 <i>or</i> jar:jar <i>or</i> par:par <i>or</i> rar:rar <i>or</i> war:war
install	install:install
deploy	deploy:deploy

Site Lifecycle Bindings

site	site:site
site-deploy	site:deploy

실습1. Maven 프로젝트 생성, 빌드, 배포

6. package phase 실행 및 산출물 확인

`mvn package`

targets 하위에서 패키징 파일 확인

7. install phase 실행 및 산출물 확인

`mvn install`

사용자root\.m2\repository 하위에서 확인