

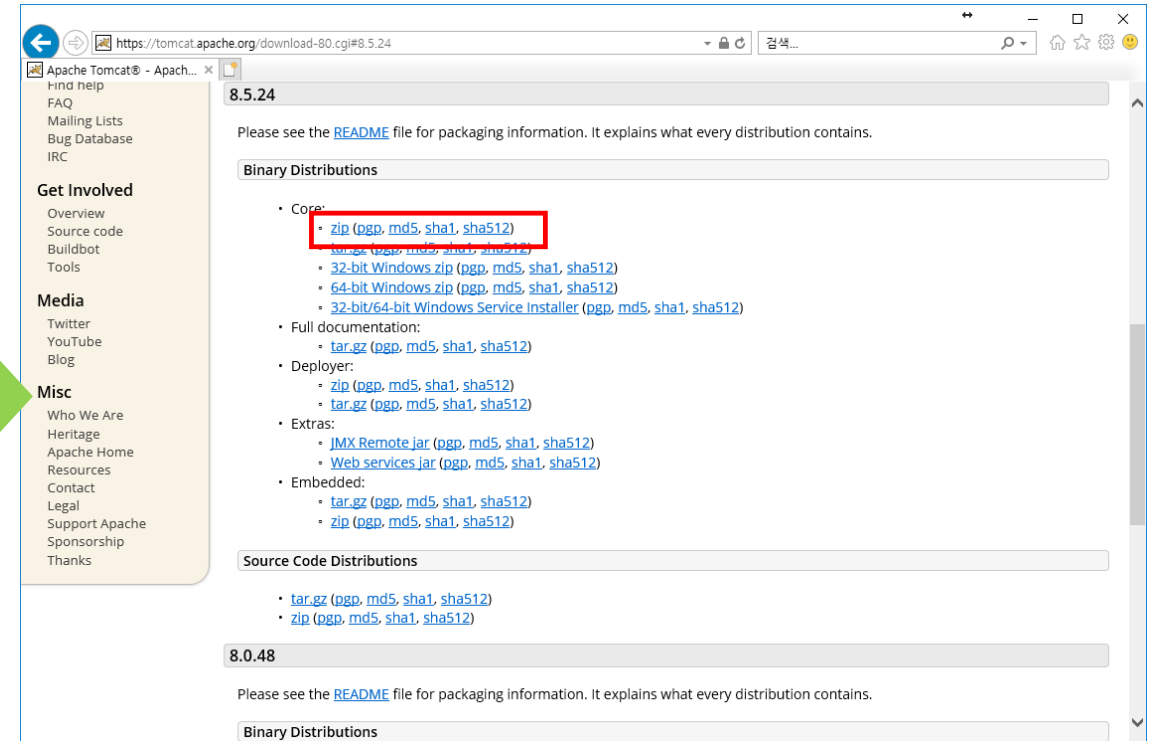
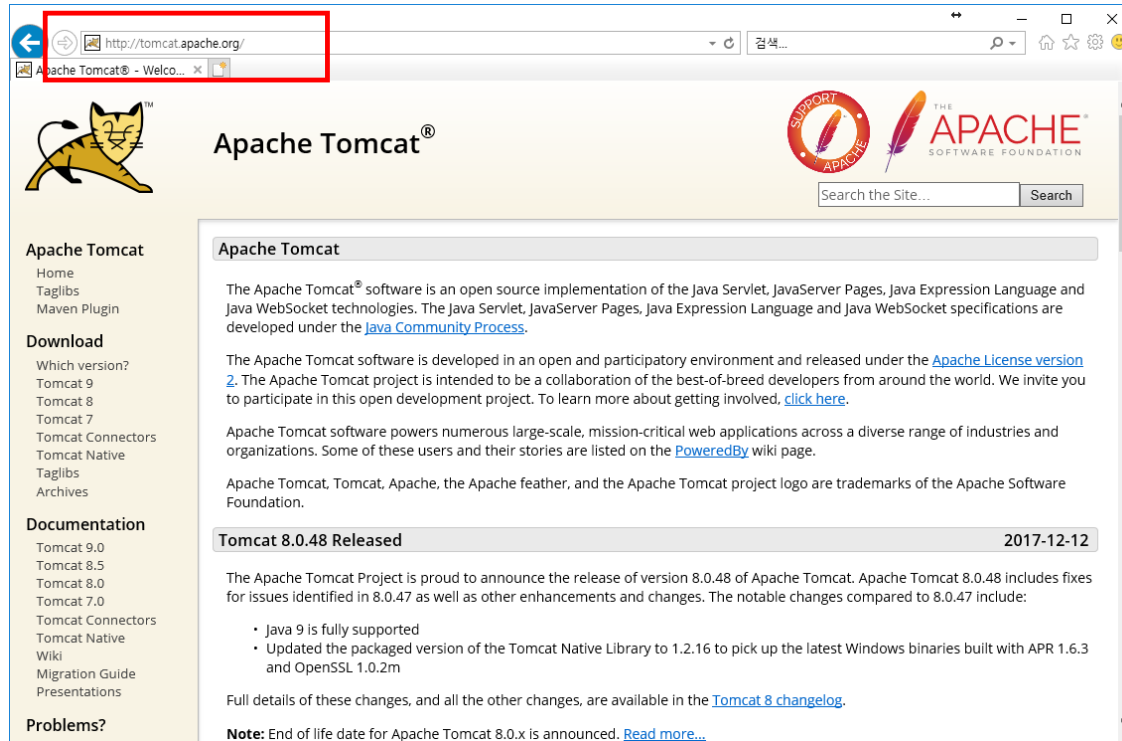
SPRING

14강_스프링 MVC 웹서비스 - I

스프링 MVC 프레임워크를 이용한 웹 프로그래밍을 구현방법에 대해서 학습합니다.

- 14-1 웹 서버(Tomcat) 다운로드
- 14-2 웹 서버(Tomcat) 와 이클립스 연동
- 14-3 이클립스에 STS(Spring Tool Suit) 설치
- 14-4 STS를 이용한 웹프로젝트 생성
- 14-5 스프링 MVC프레임워크를 이용한 웹프로젝트 분석

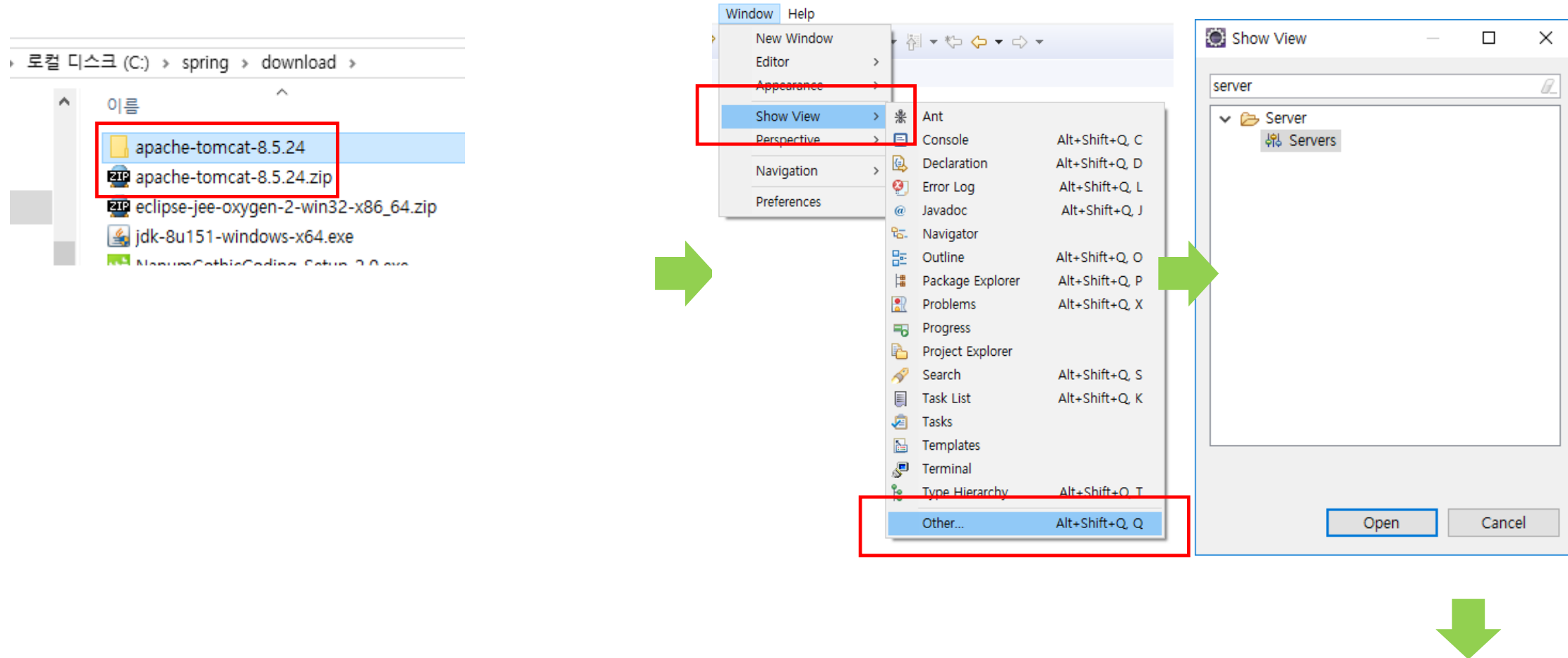
14-1 : 웹 서버(Tomcat) 다운로드



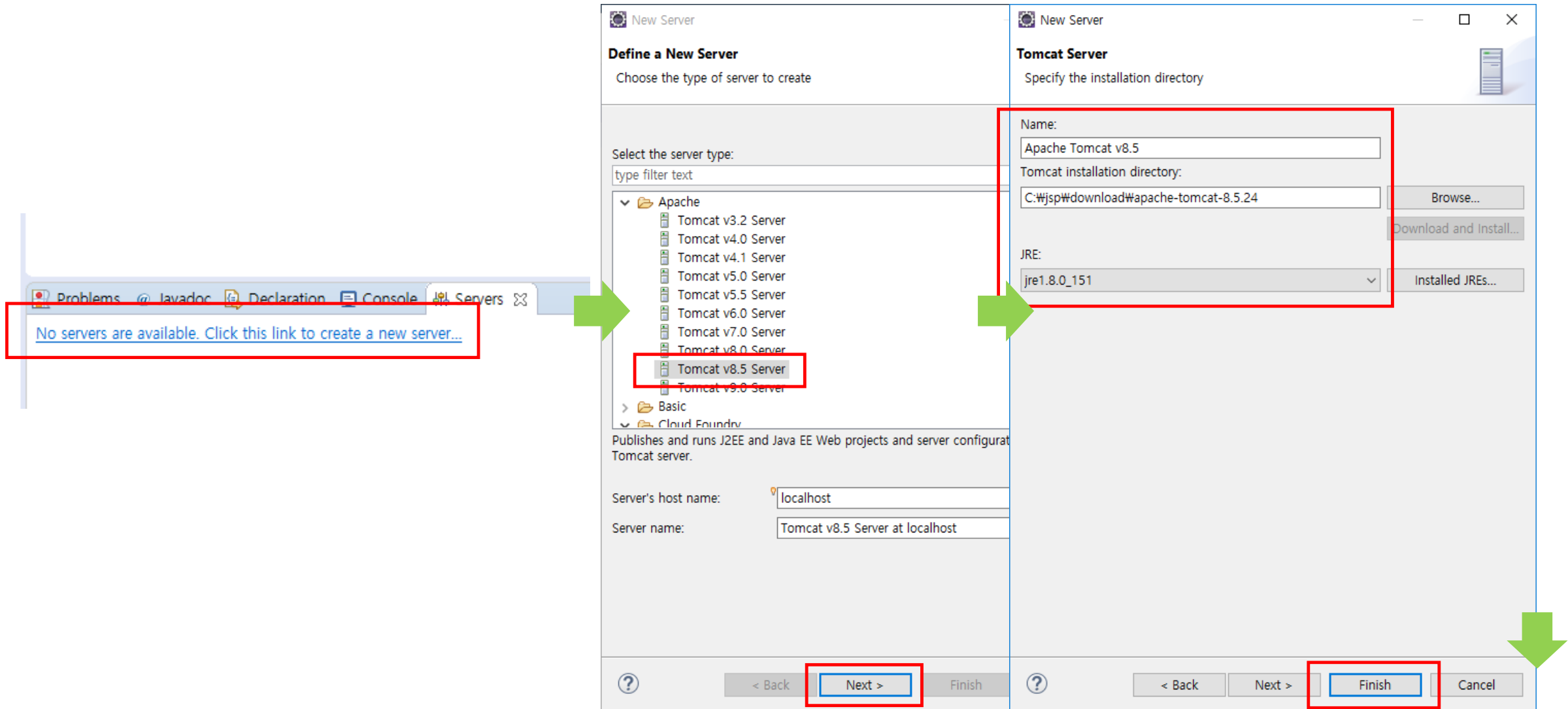
`http://tomcat.apache.org/`



14-2 : 웹 서버(Tomcat) 와 이클립스 연동



14-2 : 웹 서버(Tomcat) 와 이클립스 연동



14-2 : 웹 서버(Tomcat) 와 이클립스 연동

The screenshot shows the Eclipse IDE interface with the 'Tomcat v8.5 Server at localhost' configuration window open. The 'Overview' tab is selected, showing the following sections:

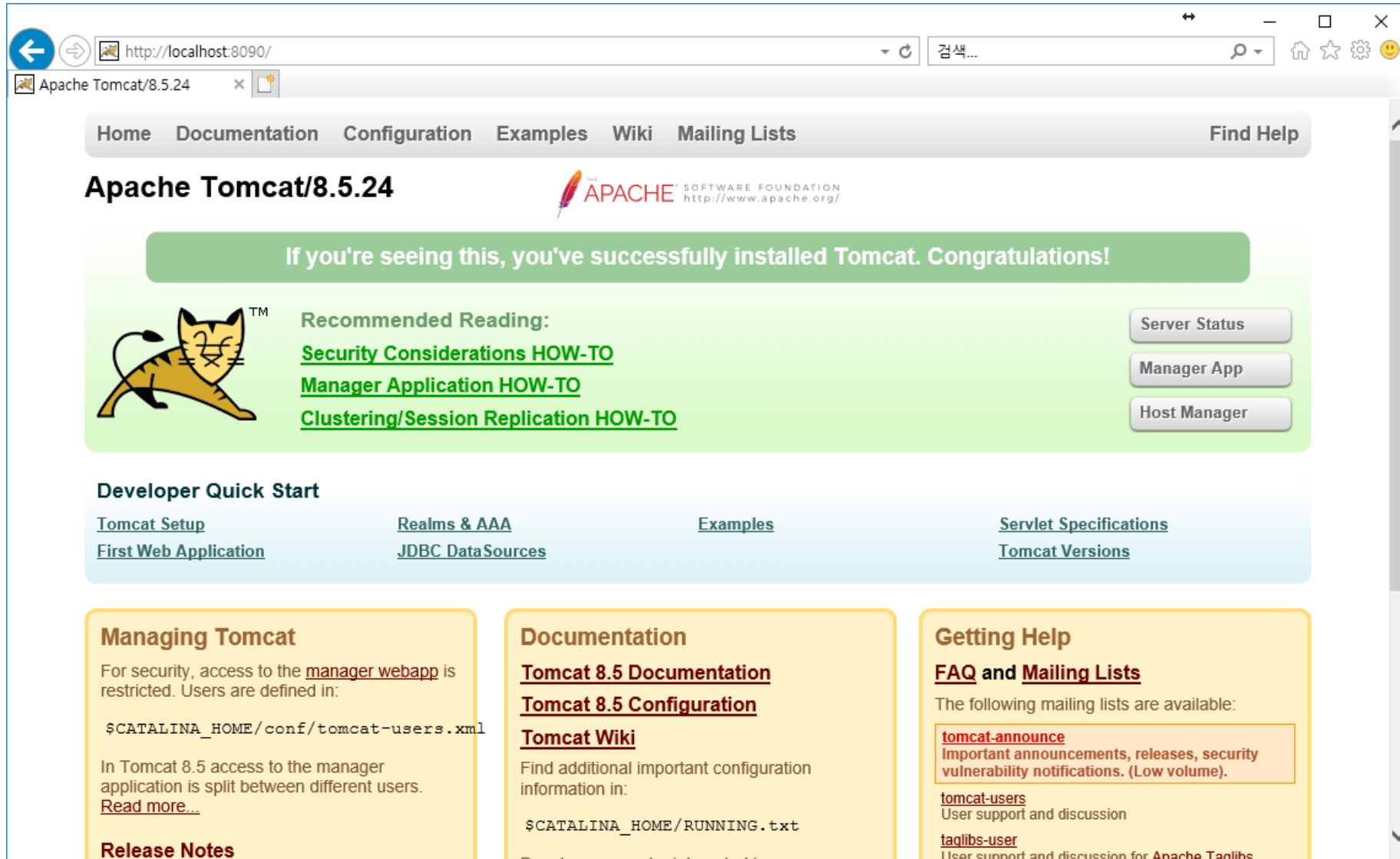
- General Information:** Server name: Tomcat v8.5 Server at localhost, Host name: localhost, Runtime Environment: Apache Tomcat v8.5, Configuration path: /Servers/Tomcat v8.5 Server at localhost-c.
- Server Locations:** Three radio buttons are present: 'Use workspace metadata (does not modify Tomcat installation)', 'Use Tomcat installation (takes control of Tomcat installation)' (highlighted with a red box), and 'Use custom location (does not modify Tomcat installation)'. The 'Server path' is C:\jsp\download\apache-tomcat-8.5.24 and the 'Deploy path' is wtpwebapps.
- Server Options:** Three checkboxes are present: 'Serve modules without publishing', 'Publish module contexts to separate XML files' (highlighted with a red box), and 'Modules auto reload by default'.

The 'Ports' section on the right shows a table of port configurations:

Port Name	Port Num
Tomcat admin port	8005
HTTP/1.1	8090
AJP/1.3	8009

The 'Run' button in the bottom toolbar is highlighted with a red box. A green arrow points down on the right side of the image.

14-2 : 웹 서버(Tomcat) 와 이클립스 연동



The screenshot shows a web browser window with the address bar set to `http://localhost:8090/`. The browser tab is labeled "Apache Tomcat/8.5.24". The page content includes a navigation bar with links: Home, Documentation, Configuration, Examples, Wiki, Mailing Lists, and a "Find Help" button. The main heading is "Apache Tomcat/8.5.24" with the Apache Software Foundation logo. A green banner states: "If you're seeing this, you've successfully installed Tomcat. Congratulations!". Below this, there is a cat icon and a "Recommended Reading" section with links to "Security Considerations HOW-TO", "Manager Application HOW-TO", and "Clustering/Session Replication HOW-TO". To the right of these links are three buttons: "Server Status", "Manager App", and "Host Manager". A "Developer Quick Start" section contains links for "Tomcat Setup", "First Web Application", "Realms & AAA", "JDBC DataSources", "Examples", "Servlet Specifications", and "Tomcat Versions". The bottom of the page is divided into three yellow boxes: "Managing Tomcat" (with text about security and a link to `$CATALINA_HOME/conf/tomcat-users.xml`), "Documentation" (with links to "Tomcat 8.5 Documentation", "Tomcat 8.5 Configuration", and "Tomcat Wiki"), and "Getting Help" (with links to "FAQ and Mailing Lists" and a list of mailing lists including `tomcat-announce`, `tomcat-users`, and `taqlibs-user`).

http://localhost:8090/ 검색...


Apache Tomcat/8.5.24

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/8.5.24

THE APACHE SOFTWARE FOUNDATION
<http://www.apache.org/>

If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

Server Status
Manager App
Host Manager

Developer Quick Start

- [Tomcat Setup](#)
- [First Web Application](#)
- [Realms & AAA](#)
- [JDBC DataSources](#)
- [Examples](#)
- [Servlet Specifications](#)
- [Tomcat Versions](#)

Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 8.5 access to the manager application is split between different users.
[Read more...](#)

Release Notes

Documentation

[Tomcat 8.5 Documentation](#)

[Tomcat 8.5 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Developers may be interested in:

Getting Help

[FAQ and Mailing Lists](#)

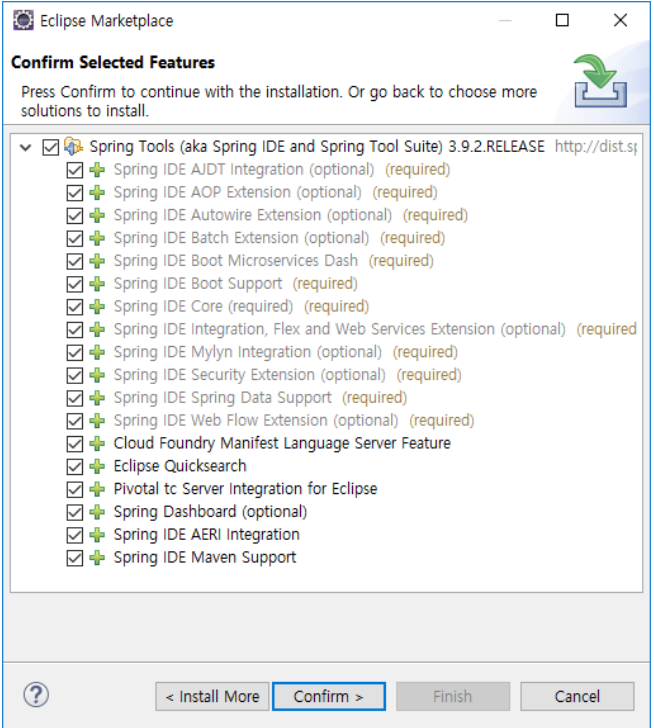
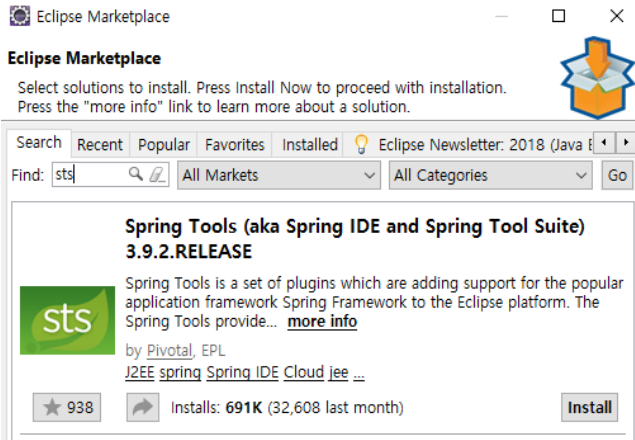
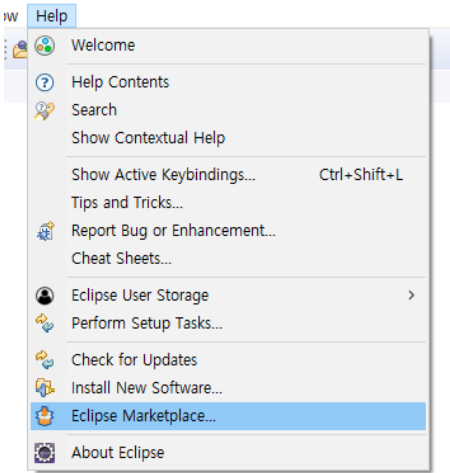
The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

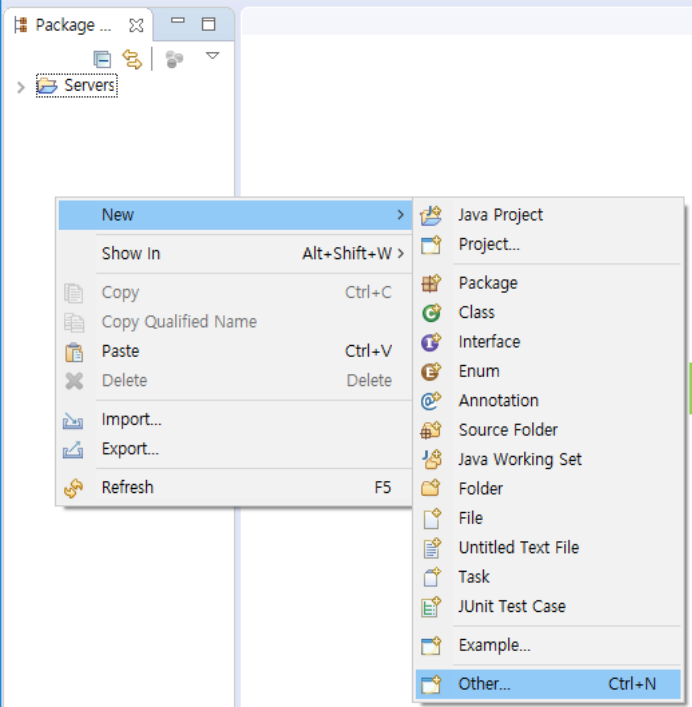
[tomcat-users](#)
User support and discussion

[taqlibs-user](#)
User support and discussion for Apache Taqlibs

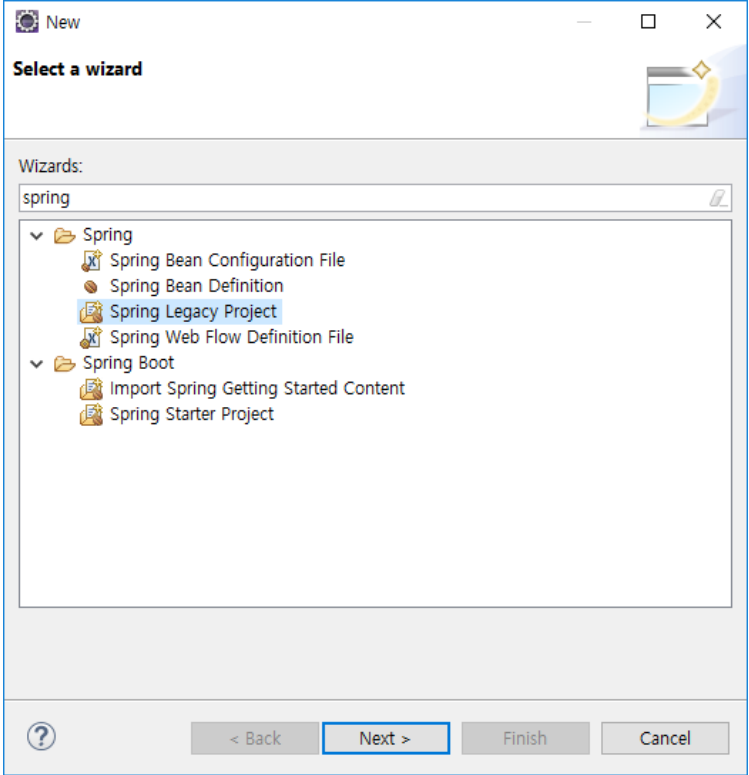
14-3 : 이클립스에 STS(Spring Tool Suit) 설치



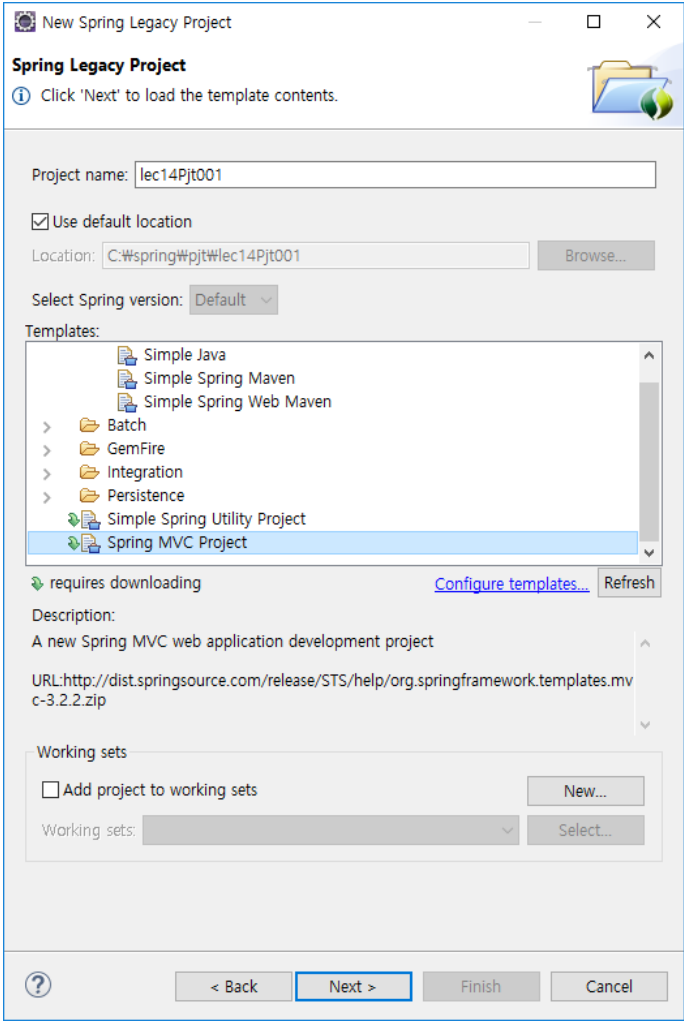
14-4 : STS를 이용한 웹프로젝트 생성



Project Explorer 창에서 오른쪽 마우스 버튼을 클릭해서 New > Other...을 선택한다.

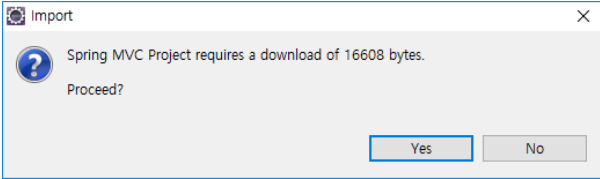


Select a wizard에서 spring으로 검색하면 spring과 관련된 프로젝트들이 보이고, Spring Legacy Project를 선택한다.

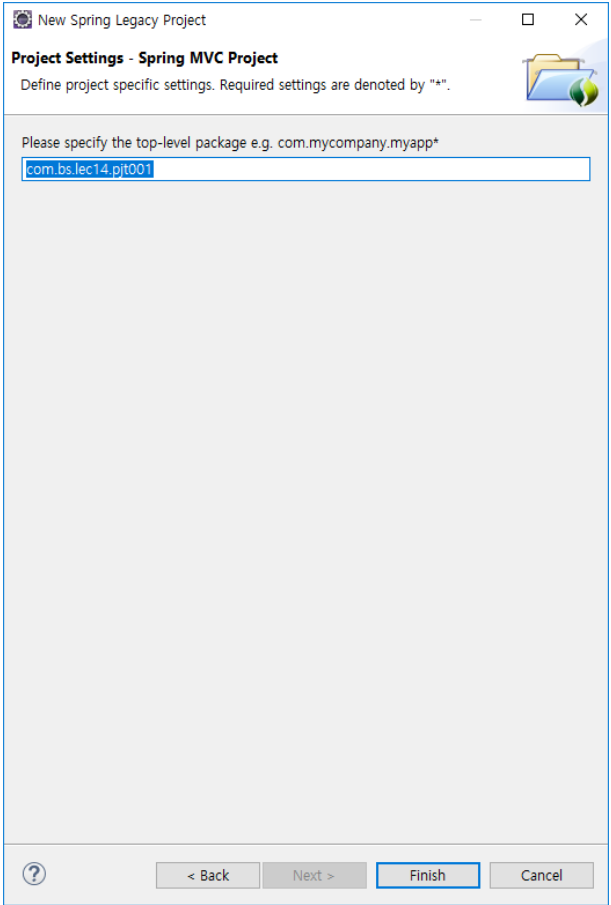


Spring Legacy Project에서 Spring MVC Project를 선택한다.

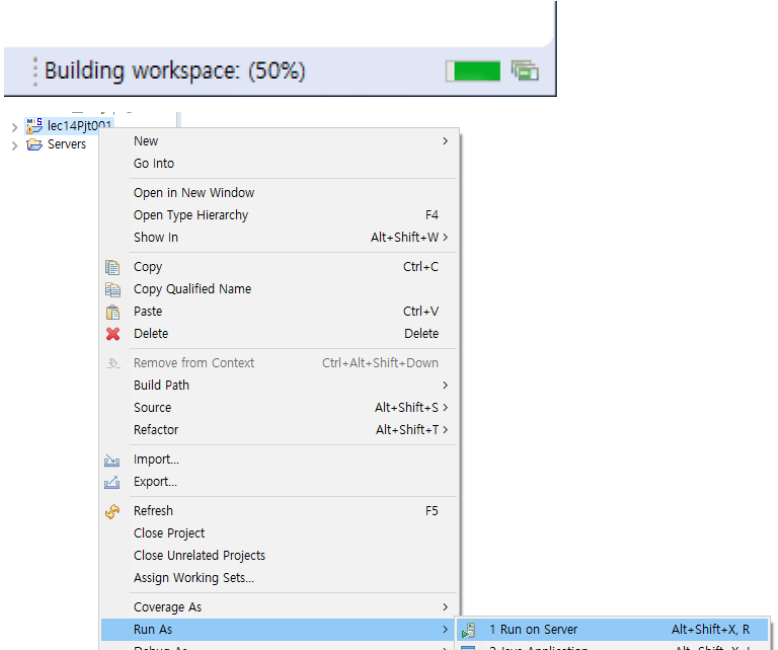
14-4 : STS를 이용한 웹프로젝트 생성



처음 Spring MVC Project를 생성하면 관련 파일을 다운로드한다. Yes 버튼을 클릭하고 잠시 기다린다. 다운로드한 파일이 많으므로 다소 시간이 소요된다.

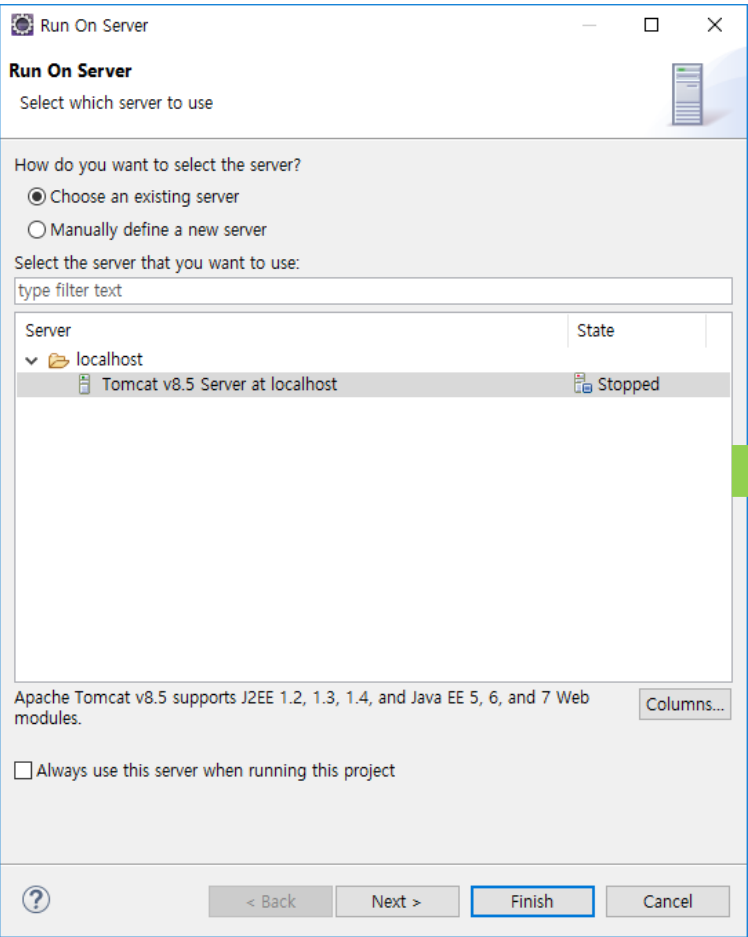


프로젝트의 패키지 이름을 입력한다. 패키지 이름은 유니코 한 이름으로 하고, 2단계 이상으로 해야 한다.

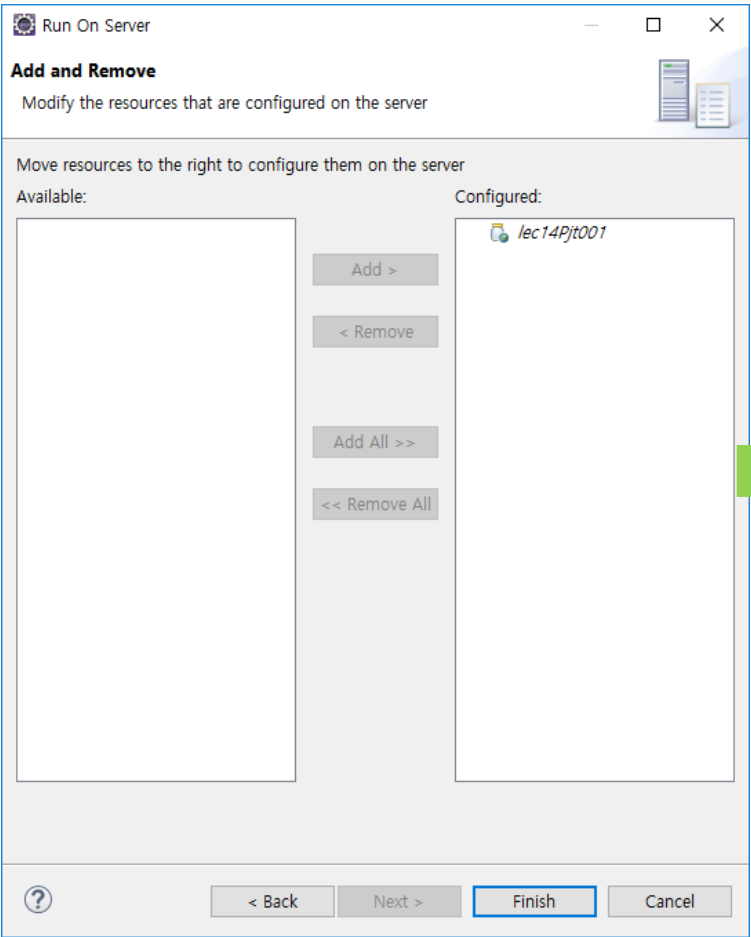


프로젝트 생성이 완료되면 Project Explorer 창에 프로젝트가 생성된 것을 확인할 수 있다. 그리고 간단한 예제가 기본적으로 들어 있고, 실제 Tomcat 웹 서버를 이용해서 실행해 볼 수 있다. 프로젝트를 실행해 보기 위해서 프로젝트 이름 위에서 오른쪽 마우스를 클릭하고 Run As > Run on Server를 클릭한다.

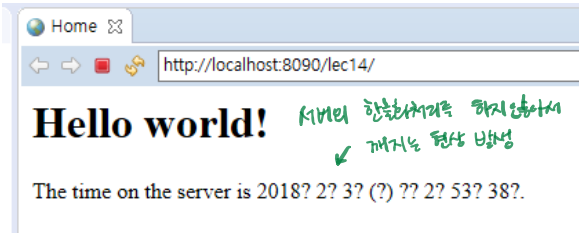
14-4 : STS를 이용한 웹프로젝트 생성



프로젝트를 실행하기 위해서 서버를 선택한다. 기존에 설정해 놓은 Tomcat 웹 서버를 이용한다. Next 버튼을 클릭한다.



Configured에 프로젝트가 포함되며, Finish 버튼을 클릭하면 프로젝트가 Tomcat 웹 서버에서 실행된다.



브라우저에서 프로젝트가 실행된다. 기본적으로 탑재된 프로젝트는 서버의 시간을 출력해 주는 예제이다.