Chapter 1. Installing Kompics

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This chapter describes the software requirements for Kompics, and the steps required to install Kompics. These instructions cover the operating systems Windows (XP/Vista), Linux (all distros), Mac (OSX).

Install software required for Kompics

The minimal requirements for downloading and installing Kompics are *Java (JDK 5.0 update 6 and above)*, *subversion* and *maven2*. However, we recommend building Kompics from an Eclipse environment (Netbeans should also work fine, but isn't discussed here).

For tutorials on how to use subversion and maven, we refer you to:

* Subversion red book [http://svnbook.red-bean.com/]

* Maven2 book [http://books.sonatype.com/maven-book/reference/public-book.html]

Download and Install Subversion and Maven2

The requirements for installing Kompics are: *maven2* and *subversion*. We present two ways of installing subversion and maven: *using the command-line* and *as eclipse plugins*. The easiest way to build Kompics is to use Eclipse plugins. We outline the steps required for installing subversion and maven2 using either approach in the table below, see Table 1.1, "Install Kompics". Please refer to the subversion and maven2 books above for additional help.

Table 1.1. Install Kompics

Command-Line	Eclipse

For Ubuntu:
 	
``
$ sudo apt-get install subversion maven2
$ svn checkout svn://small.sics.se/kompics/tags/0.4
$ cd 0.4
$ mvn install
``
 	
For Windows:
 	
• Go to http://maven.apache.org/ and download an install Maven2.
 	
• Download and install a subversion client, such as tortoise/svn [http://tortoisesvn.tigris.org/], and then checkout the Kompics code from our subversion server using the address:
 	
`svn://small.sics.se/kompics/tags/0.4`
 	
. Once you have checked out the Kompics code, you can build Kompics using maven2, by running the following command from the Kompics source code root folder:
 	
`c:\...\>mvn install`
 	
• If you prefer Netbeans, you can generate a netbeans project using the following plugin Netbeans plugin for Maven [http://wiki.netbeans.org/MavenBestPractices].
	You will need to install the following Eclipse tools to build Kompics:
	
	• *Eclipse IDE* (Ganymede version is recommended). You now need to know how to install plugins for Eclipse. For the Ganymede version of Eclipse, you click on `Help->Software Updates-> Available Software`. Then click the "Add site" box to add an update site for a plugin.
	
	• *subclipse* - an Eclipse Plugin for Subversion available at Eclipse update site `http://subclipse.tigris.org/ update_1.4.x`. It is recommended that you check at least the following boxes for installation: "subclipse", "subclipse client adapter" and the "javahl adapter".
	
	• *m2eclipse* - an Eclipse Plugin for Maven2 available at Eclipse update site `http:// m2eclipse.sonatype.org/update/`. It is recommended that you check at least the following boxes for installation: "maven embedder", "maven integration for eclipse", "Maven SCM handler", and the "Maven SCM handler for Subclipse".
	
	In Eclipse, import the maven project from the subversion repository: `File->Import- >Other->Checkout Mvn Projects from SCM`.
	
	Then select 'svn' as SCM type, and enter as SCM URL: `svn://small.sics.se/ kompics/tags/0.4/`
	
	You should now restart Eclipse, and you will be able to import and build Kompics.

Summary

We specified the software requirements for Kompics and described how to download and build Kompics.