

Apache Directory Studio : Building

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Building Apache Directory Studio (Maven)

All projects use maven as default build tool. As of February 13th 2008 we use [Maven 2.0.7](#) on JDK 1.5.

Checkout Sources from SVN Repository

First you have to download the source code from the repository. Subversion is used for version control, so you can use the subversion client to download up to date source code. Here are the steps to have a running Apache Directory Studio from scratch:

To check out the active development branch of Apache Directory Studio and all co-projects run the following command (use https instead of http for committers):

```
svn co http://svn.apache.org/repos/asf/directory/studio/trunk studio
```

Build Maven Plugin

Now, change to studio:

```
cd studio
```

Change again to studio-plugin:

```
cd studio-plugin
```

Run the following command to build the Studio Plugin for Maven (needed to build Apache Directory Studio):

```
mvn clean install
```

When the command ends successfully, go back one level

```
cd ..
```

Build Apache Directory Studio

Run the following command to build all the Apache Directory Studio Eclipse plugins and RCP application:

```
mvn clean install
```



If the build hangs or you get an out of memory exception please increase the heap space:

- For Linux:

```
MAVEN_OPTS="-Xmx256m" mvn clean install
```

- For Windows:

```
SET MAVEN_OPTS="-Xmx256m"  
mvn clean install
```



By default a distribution for your current working OS is build. You can add additional distributions by adding the corresponding profile of it:

OS	os.family	os.arch	maven profile to use
Mac OSX (Mac/Carbon)	mac	i386	-Pmacosx
Windows	windows	x86	-Pwin32
Linux (PPC/GTK 2)	unix	ppc	-Plinux-ppc
Linux (x86/GTK 2)	unix	i386	-Plinux-x86
Linux (x86_64/GTK 2)	unix	amd64	-Plinux-x86_64



Warning: Work in progress

- Windows amd64 (e.g. Vista) is only supported for SDK/RCP >= 3.4
- Any other combinations of OS/Platform is not yet supported

After the command ends running successfully you'll have all the projects compiled and the distribution(s) of Apache Directory Studio application generated in the directory **target/distributions**. To run the application, double-click on it.

Build User Documentation

To build the user documentation in HTML and PDF, run the following command:

```
mvn install -Puserguides
```



Generating PDF requires much memory. If you get an out of memory exception please increase the heap memory:

- For Linux:

```
MAVEN_OPTS="-Xmx256M" mvn install -Puserguides
```

- For Windows:

```
SET MAVEN_OPTS="-Xmx256M"  
mvn install -Puserguides
```

After the command ends running successfully you'll have all the user documentation generated in the directory **target/userguides**.

Cleanup

To clean the project's directory, run the following command:

```
mvn clean
```

Maven settings in Eclipse

Don't forget to declare a classpath variable named M2_REPO, pointing to ~/.m2/repository, otherwise many links to existing jars will be broken.

You can declare new variables in Eclipse in *Windows -> Preferences...* and selecting *Java -> Build Path -> Classpath Variables*.

Misc



If you have problems building the projects please try to clean your local maven2 repository:

- For Linux:

```
rm -rf ~/.m2/repository
```

- For Windows: Delete the folder C:\Documents and Settings\<your username>\.m2\repository

Note: Each sub-project can also be built separately. To do so, enter the project directory and run the **mvn install** command. This will compile and generate the plugin in the **target** directory

Note 2: Apache Directory Studio can be built on Linux, Mac OS X and Windows. It has been run successfully on Linux Ubuntu, Gentoo Linux (i386/amd64), Mac OS X Tiger & Leopard and Windows XP Pro.