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Building Apache Directory Studio

All projects use an Ant build file as default build tool. As of June 14th we use [Ant 1.6.5](#) (including ant-optional) on JDK 1.5.

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:

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

Now, change to studio:

```
cd studio
```

Run the following command to build all of the projects:

```
ant
```



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

- For Linux:

```
ANT_OPTS="-Xmx256m -XX:MaxPermSize=256m" ant
```

- For Windows:

```
SET ANT_OPTS="-Xmx256m -XX:MaxPermSize=256m"  
ant
```



By default the build script will generate the appropriate version of Apache Directory Studio according to the Operating System and the Architecture of the build machine. If you want to build Apache Directory Studio for an other Operating System or Architecture use these options in the command line:

- Specify the target operating system using this option:
 - -Dldapstudio-rcp.os.name=macosx for Mac OS X
 - -Dldapstudio-rcp.os.name=linux for Linux
 - -Dldapstudio-rcp.os.name=win32 for Windows
- and the target architecture using this option:

- -Dldapstudio-rcp.os.arch=i386 for i386 architecture (Linux and Mac OS X)
- -Dldapstudio-rcp.os.arch=x86 for x86 architecture (Windows only)
- -Dldapstudio-rcp.os.arch=ppc for PowerPC architecture

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

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

```
ant userguides
```



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

- For Linux:

```
ANT_OPTS="-Xmx128M" ant userguides
```

- For Windows:

```
SET ANT_OPTS="-Xmx128M"  
ant userguides
```

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

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

```
ant clean
```



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

- For Linux:

```
rm -r ~/.ivy/cache/
```

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

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

Note 2: Apache Directory Studio can be built on Linux GTK, Mac OS X and Windows. It has been run successfully on Linux Ubuntu Dapper, Mac OS X 10.4.9 and Windows XP Pro.