Building LDAP Studio

All projects use an Ant build file as default build tool. As of june 5th we use Ant 1.6.5 (including ant-optional) and Ivy 1.4.1 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 LDAP Studio from scratch:

To check out the active development branch of LDAP Studio and all co-projects run the following command:

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

Now, change to ldapstudio:

```
cd ldapstudio
```

> ⚠ You will have to add **ivy** jar into ant library directory in order to be able to build the project. Just copy the **ivy-<version>.jar** into the **<ant-dir>/lib** directory.
>
> (you can get the ivy jar here : ivy download, get the latest binary zip file, open it and extract the **ivy-<version>.jar** file.
>
> As a matter of fact, ivy is now in the apache incubator :
> http://incubator.apache.org/projects/ivy.html)

Run the following command to build all of the projects:

```
ant
```

> ⚠ By default the build script will generate the appropriate version of LDAP Studio according to the Operating System and the Architecture of the build machine.
> If you want to build LDAP 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 LDAP Studio application generated in the directory **target/LDAP Studio**.
To run the application, double-click on it.

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

```
ant clean
```

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: LDAP Studio can be built on Linux GTK, Mac OS X and Windows. It has been run successfully on Linux Ubuntu Dapper, Mac OS X 10.4.6 and Windows XP Pro.