

DspaceOnWindows 2fOlderInstructions

Older Instructions

(GraceCarpenter, September 2004)

This is my unofficial write-up of how to install **DSpace 1.2** on Windows. Although this process probably works on several versions of Windows, I personally have experience only with Windows XP. Please feel free to modify/correct/add to these instructions! This document owes much to Tom Corrigan's write-up from 7/3/03, and is also based as closely as possible on the official installation instructions from the DSpace System Documentation.

Please remember that DSpace was written with Unix-like platforms in mind; although you *can* run it under Windows, it may not be ideal for a production server. To my knowledge, very little testing of DSpace has been done under Windows. Also keep in mind that even when using Windows as your DSpace platform, you'll need to be reasonably comfortable with a Unix-like command line environment, since you'll be using the Linux emulator Cygwin. In fact, if at all possible, you should probably get it up and running under Linux/Unix before tackling Windows; if you run into problems in the install, you will have a much greater pool of knowledgeable users and developers to whom you can turn for help.

This document uses the same conventions as the official DSpace documentation to refer to the various DSpace directories:

*the source directory is referred to as *[dspace-source]*
*the install directory is referred to as *[dspace]*

In general, whenever you see a directory name in italics and surrounded by square brackets in this document, you should replace it with the actual directory name on your machine. For more information on the different DSpace directories, see the official DSpace documentation. Be sure to keep the source directory and install directory separate!

In order to do the installation you must be logged in as a user who has full administrative rights on the machine. Also, remember that you will be doing most of the install from the command line, and you will make your life a lot simpler if you do the two following things:

*Make your Windows user name short, and avoid blanks and special characters.
*Make your directory names short, and avoid blanks and special characters.

Pre-requisites:

1. The Linux emulator [Cygwin](#), along with the Cygwin version of the open source relational database [PostgreSQL](#).

When downloading Cygwin, you must install PostgreSQL, in addition to installing the default Cygwin packages. You do this by choosing the PostgreSQL option in the Database category in the Cygwin setup program. This is the only setup of PostgreSQL that is necessary; there is no need to recompile PostgreSQL as described in the DSpace install document.

(***Copy the postgresql.jar to
c:[dspace-source]\lib.**)

We suggest you use c:\cygwin for the installation directory. Make other choices as appropriate to your environment.

2. Download [cygipc](#). Store the download in c:\cygwin. Start a Cygwin command shell and execute:

```
{{
Unknown macro: {cd /cygdrive/c/cygwinunzip2 cygipc-x.xx.tar.bz2tar xvf cygipc-x.xx.tar}}
}
```

3. [Java 1.4](#) or later (standard SDK is fine, you don't need J2EE).

You'll need to set the JAVA_HOME system environment variable, and also add the \$JAVA_HOME/bin directory to your classpath. You can do this either by using the Windows Control Panel or by writing a shell script that you run in Cygwin at the start of every Cygwin session. Since you'll probably be using Java (as well as Ant and Tomcat, below) for more than just DSpace, it probably makes more sense to use the Control Panel. If you're unsure about how to set environment variables through the Control Panel, please see your Windows documentation.

4. [Apache Ant 1.5.2](#) or later (Java make-like tool)
(See note above regarding setting environment variables.)

5. [Jakarta Tomcat 4.x/5.x](#) or equivalent, such as [Jetty](#) or [Caucho Resin](#).
(See note above regarding setting environment variables.)

Installation Steps

1. Download the [latest DSpace source code release](#), and unzip it using WinZip. (The directory you unzip it to will be referred to now as *[dspace-source]*).

2. Download the other required Java libraries:

* [JavaBeans Activation Framework](#) -- place activation.jar from the ZIP file in *[dspace-source]/lib*

* Java Servlet 2.3 and JSP 1.2 -- go to [this page](#) and click the 'continue' button next to 'Download class files 1.2'. Place servlet.jar in *[dspace-source]/lib*

* [JavaMail API](#) -- place mail.jar in *[dspace-source]/lib*

(Remember that you should replace *[dspace-source]* with the actual name of your DSpace source directory).

3. Open a Cygwin command shell and execute

```
{{
Unknown macro: { ipc-daemon & initdb /cygdrive/c/pgsql/data }}
}
```

Then activate PostgreSQL in the same Cygwin command shell with the following command:

```
{{
Unknown macro: { postmaster -D /usr/local/pgsql/data >/usr/local/pgsql/data/logfile 2>&1 & }}
}
```

- ◦ ??Is the pgsql/data dir already there?*


4. Create a dspace database, owned by the current user:

```
{{
Unknown macro: { createuser -U [username] -d -A -P dspace ; createdb -U dspace -E UNICODE dspace }}
}
```

(Don't forget that Linux/Cygwin is CASE-SENSITIVE.) When prompted for a password use "dspace"

5. Edit *[dspace-source]/config/dspace.cfg*, in particular you'll need to set these properties:

```
{{
Unknown macro: { dspace.dir dspace.home dspace.postgres.password (the password you entered in the previous step) mail.servermail.from.
addressfeedback.recipient mail.admin.alert.recipient (not essential but very useful!)}
}
```

You should type in the directory names as DOS paths (not Cygwin paths), but use the forward slash  instead of the backslash (**), e.g. *c:/dspace*.

Note that if you change *dspace.dir* you'll also need to change other properties with values that start with */dspace*, e.g. *assetstore.dir*, *log.dir*...

6. Edit the *dsrun* file in *[dspace-source]/bin* and add the following line just after the existing *FULLPATH* statement:

```
{{
Unknown macro: {FULLPATH=`cygpath --path --windows "$FULLPATH"`}}
}
```

(The ``` character is located underneath the tilde on the standard American keyboard.)

7. From the Cygwin command shell window execute

```
{{
Unknown macro: {cd [dSPACE-source] ant fresh_install}}
}
```

8. Copy the DSpace Web application archives (.war files) to the appropriate directory in your Tomcat/Jetty/Resin installation. For example:

```
{{
Unknown macro: {cp [dSPACE-source]/build/*.war [tomcat]/webapps}}
}
```

(Don't forget that if you're **re-installing** DSpace, you'll need to first stop Tomcat and delete the existing `[tomcat]/webapps/dspace` directory.)

9. Create an initial administrator account:

```
{{
Unknown macro: {[dSPACE]/bin/create-administrator}}
}
```

Now the moment of truth! Start up (or restart) Tomcat. Visit the base URL of your server, e.g. <http://dSPACE.myu.edu:8080/dSPACE>. You should see the DSpace home page. Congratulations!