

Installing EPrints 3 on Windows

This is the [Windows Install Web page](#) on the [EPrints site](#), with changes to reflect the unique configuration of the [Cardinal Scholar](#) repository at [Ball State University](#).

The required software has had to be preserved on disk because the required versions have become more and more difficult to find online. Also, the optimal versions of the Perl modules are no longer available from the University of Winnipeg site due to the need to conserve resources there. If you want to try out the latest versions of the software, consult my documents *Experimental EPrints for Windows* and *An Issue with EPrints for Windows*.

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We are working to support the Windows platform. This guide describes the process of getting EPrints 3 running on Windows (tested with XP and Vista).

Recent versions of the EPrints 3.0 Windows Installer are licensed under the Microsoft Reciprocal License.

Caveats

- Releases before r3380: The installation directory is fixed as C:\EPrints\
- Releases from r3380: You can now specify the installation directory. However, EPrints assumes GhostScript and catdoc can be found relative to this directory.

Required Software

- Apache 2.2.4
- Active Perl 5.8.8.820
- MySQL 5.0.x
- EPrints 3.0 r3380 for Windows

Like all EPrints releases, this is supplied without warranty and cannot be guaranteed to be free of bugs. Good backups are essential in a live archive.

Optional Software

- GhostScript 8.60
- Catdoc 0.94.2
- ImageMagick 6.3.5-6

Installation

Each component of the complete EPrints system will be installed in a subdirectory of E:\EPrints\ for ease of maintenance.

Install Apache

Run the Apache installer. When prompted, choose to install in the directory E:\EPrints\Apache2.

Edit the Apache configuration file, E:\EPrints\Apache2\conf\httpd.conf in a text editor, and change the following lines:

```
ThreadsPerChild 500
MaxRequestsPerChild 10000
```

In the Services utility, right-click Apache2 and choose Properties. Under the Recovery tab, for 'on first failure' choose Restart the Service. In that way, when the Web server crashes from the depletion of threads (which will happen!), the service will be able to recover.

Install ActivePerl

Run the ActivePerl installer. When prompted, choose to install in the directory E:\EPrints\Perl. Ensure that Perl is added to your PATH.

When installation is complete, some optional components need to be installed from the command line. Open a command prompt and enter:

```
ppm install http://theoryx5.uwinnipeg.ca/ppms/DBD-mysql.ppd
ppm install http://theoryx5.uwinnipeg.ca/ppms/mod_perl.ppd
```

The mod_perl installer will prompt you for the Apache module path. Enter:

```
E:/EPrints/Apache2/modules
```

To add mod_perl support to Apache, edit the Apache configuration file, E:\EPrints\Apache2\conf\httpd.conf in a text editor, and add the following lines:

```
LoadFile "E:/EPrints/Perl/bin/perl58.dll"
LoadModule perl_module modules/mod_perl.so
```

Configuring Apache and Perl

You will need to set some environment variables so EPrints can find Perl and its libraries. To set environment variables, use Control Panel → System → Advanced system settings → Advanced → Environment Variables...

- Make sure both E:\EPrints\Perl\bin and E:\EPrints\Apache2\bin are included in the Path variable, separated by a semicolon ;
- Create a new variable PERL5LIB, with the value E:/EPrints/EPrints/perl_lib (note forward slashes).

Install MySQL

Now run the MySQL installer, and choose a Custom installation in E:\EPrints\MySQL. You will need to set the following options:

- Install the server and client programs
- Do not install the C files
- Skip signing up to MySQL.com

Configure MySQL

When the installation completes, you should configure the server as prompted (this tool is also available from the Start Menu afterwards).

Choose Detailed installation. Accept most of the default settings:

- As the character set, choose Latin-1.
- Choose a secure root password when prompted

When configuration has finished, you need to set an option manually in MySQL's configuration file by editing E:\EPrints\MySQL\my.ini in a text editor.

- In the sql-mode option, remove NO_AUTO_CREATE_USER from the list

Now restart MySQL so that the new options take effect. In Control Panel → Administrative Tools → Services, find MySQL and choose Restart.

Install optional components

Install GhostScript, ImageMagick, and catdoc. These tools are not essential to try out EPrints, but provide extra functionality.

- **GhostScript** should be installed in E:\EPrints\GhostScript .
- **Catdoc** should be unzipped into E:\EPrints\catdoc-0.94.2 .
- **ImageMagick** should be installed in E:\EPrints\ImageMagick . Select the options "Update executable search path" and "Install PerlMagick for ActiveState Perl". Other options can be deselected.

A ppm error may occur while installing the Perl component of ImageMagick. If so, open a command prompt afterwards and enter:

```
cd \EPrints\ImageMagick\PerlMagick
ppm install Image-Magick.ppd
```

Install EPrints 3

Run the EPrints installer. This will install files into E:\EPrints\EPrints.

When the installer has finished copying files, it will prompt you for site specific information. Follow the instructions to complete the installation.

Configure EPrints 3

Now you can run epadmin to configure the archive. This process is the same on all platforms, so you can follow the standard instructions for the details of this process: [Installation/Getting Started](#)

Note: Whenever you need to run an EPrints command line tool, it must be prefixed with perl:

```
perl bin/generate_static bsuirep
```

First open a command prompt and change directory to E:\EPrints\EPrints. To start the process, run:

```
perl bin/epadmin create
```

And you should be warned that with every call to `perl bin\epadmin` you will get the message

The procedure entry point Perl_sv_2iv_flags could not be located in the dynamic link library perl58.dll

That is because past versions of the Perl Archive Toolkit (Perl's answer to Java's *jar*) are no longer maintained on the site <http://theoryx5.uwinnipeg.ca>, as explained by its sysadmin:

In our <http://theoryx5.uwinnipeg.ca/ppms/> repository I had been maintaining versions of PAR and related packages built against different versions of Perl. This is becoming somewhat unmanageable, though, so I've now changed it so that these will be built with the latest ActivePerl (currently build 822), and have just uploaded a new PAR and PAR-Packer built against this.

epadmin will fail to run `generate_static`, `import_subjects`, and `generate_apacheconf` automatically. Run them manually according to the standard instructions.

```
perl bin/generate_static bsuirep
perl bin/import_subjects bsuirep
perl bin/generate_views bsuirep
perl bin/generate_apacheconf
```

Finally you need to add the EPrints configuration file to Apache. Edit E:\EPrints\Apache2\conf\httpd.conf and add at the bottom of the file:

```
PerlPassEnv PERL5LIB
Include E:/EPrints/EPrints/cfg/apache.conf
```

Starting Apache

Control Apache from the Services panel. Stop and start the service before testing, to reload the configuration file.

Finish

EPrints should now be accessible from your browser, at the hostname you specified to epadmin above.

Administration

Scheduling tasks

The Windows Task Scheduler can be used to automate regular tasks, similarly to the cron daemon under Unix. This tool can be found on Windows Vista under Accessories → System Tools → Task Scheduler.

Choose Create Basic Task... to add a new task. You will need four tasks in total: one for generate_views and three for saved searches.

For Trigger, select Daily, Weekly, or Monthly and configure the time appropriately.

For Action, choose Start a Program.

- Program name is E:\EPrints\Perl\bin\perl.exe
- Arguments are the path to the script and its arguments; either:

```
E:\EPrints\EPrints\bin\send_alerts myarchive daily  
E:\EPrints\EPrints\bin\send_alerts myarchive weekly  
E:\EPrints\EPrints\bin\send_alerts myarchive monthly  
E:\EPrints\EPrints\bin\generate_views myarchive
```

- Start In is E:\EPrints\EPrints

On the Finish screen choose to display the properties for the task.

- Choose Run whether user is logged on or not, and select Do not store password.

Indexer

Task Scheduler should also be used to replace the indexer daemon. The options are as above, except with the script is called:

```
E:\EPrints\EPrints\bin\makeindex
```

However, to run more frequently than once per day, it is necessary to create a recurring Trigger. In the properties screen, modify the Trigger and set the Repeat task every: option.