

Ball State University Libraries

A destination for research, learning, and friends

Experimental EPrints for Windows

Andy West

Microcomputer/Systems/Network Analyst

Library Information Technology Services

Written 1 October 2008

Updated 25 March 2009

introduction

Using EPrints for Windows requires specific versions of the underlying software it requires, as outlined in the wiki document [Installing Eprints 3 on Windows](#).

software	version
Apache	2.2.4
Active Perl	5.8.8.820
mod_perl	2.0
ImageMagick	6.3.5-6-Q16

Now, compare these with the latest versions of these software (as of 26 February 2009).

software	version
Apache	2.2.11
Active Perl	5.10.0.1004
mod_perl	2.0
ImageMagick	6.4.9-10-Q8

For some reason, Apache and Perl have incompatibilities with `mod_perl` beyond the versions in the first table. It is my opinion that at some point it will become impossible to obtain these precise versions of Apache and Perl, so why don't I just install the latest stuff and see if that works.

installation

I followed [the instructions](#) for installing Apache and Perl, except for using the latest versions in the second table. Also, I used tested this on a standard LITS server configuration, where the Windows drive (C:) and the application drive (E:) are separate.

Ball State University Libraries

A destination for research, learning, and friends

apache/perl

The Apache and Perl installs were straightforward.

software	path
Apache	E:\EPrints\Apache2
Active Perl	E:\EPrints\Perl

Apache's configuration file is in E:\EPrints\Apache2\conf\httpd.conf. Make sure the directive `ServerName` is set to the address of your server.

mod_perl

For versions of Perl beyond 5.8, the University of Winnipeg site provides a different set of Perl modules under the directory <http://cpan.uwinnipeg.ca/PPMPackages/10xx/>. Thus are the command prompt strings for downloading and installing `mod_perl` and `DBD-mysql`:

```
ppm install http://cpan.uwinnipeg.ca/PPMPackages/10xx/DBD-mysql.ppd
ppm install http://cpan.uwinnipeg.ca/PPMPackages/10xx/mod_perl.ppd
```

apache/perl/mod_perl

The paths to the `bin` folders of both Apache and Perl are appended to the Windows environmental variable `PATH`. Then add the following lines to `httpd.conf`:

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

Restart Apache from the Windows management utility `Services`. The other means to start, stop and restart Apache do not work.

mysql

I installed MySQL as instructed. I also installed the GUI Tools to MySQL because makes using MySQL easier and has a useful backup/restore capability.

software	path
MySQL	E:\EPrints\MySQL
GUI Tools	E:\EPrints\MySQL\tools

Remove `NO_AUTO_CREATE_USER` from the `sql-mode` option in E:\EPrints\MySQL\my.ini. Then restart MySQL through the `Services` utility.

Ball State University Libraries

A destination for research, learning, and friends

ImageMagick

I have had to install the 8-bit DLL version of ImageMagick, of which the latest is 6.4.9-10-Q8. The sixteen-bit (Q16) is undetectable by EPrints and generates a fatal error.

eprints

I installed EPrints with no trouble at all.

software	path
EPrints	E:\EPrints\EPrints

configuration

Creating and configuring an archive is just like that on the EPrints instructions, except that the underlying Perl will generate a stream of warnings. This is because Perl 5.10 regards use-once modules as aberrations. To get around this, make your Perl calls with the `-X` flag to turn the warnings off.

Navigate to `E:\EPrints\EPrints` and launch the following:

```
perl -X bin\epadmin create your_archive
```

And following the instructions. You will need the name and title of your new repository, as well as passwords to the repository, to its database and to the administrator for the repository. Also, you will need a mail transport agent for outgoing mail, in order that new users can get confirmation e-mails from the repository.

After the configuration, you will still need to run the following:

```
perl -X bin\generate_static your_archive  
perl -X bin\import_subjects your_archive  
perl -X bin\generate_apacheconf
```

The first constructs the Web pages for your repository. The second imports divisions or subjects; these include the Library of Congress categories (say 'no' if you do not want those). The last prepares the Apache server for the new repository.

After running the last item, you will need to add two more lines to the Apache configuration file in `E:\EPrints\Apache2\conf\httpd.conf`.

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

Ball State University Libraries

A destination for research, learning, and friends

Restart Apache in the Services utility, and you are in business.

old repositories

About transferring repositories from an older version of EPrints for Windows (pre-3380), I have two words: **You cannot.**

The database configuration on EPrints for Windows was changed from 3.0.7 to 3.1.0. If your database was set up under the 3.0.7 regime, and if you run `epadmin upgrade` to fix the database to 3.1.0, you will find that the `generate_views` utility will crash always due to cache map incompatibilities that the EPrints upgrade could not fix.

Apart from switching from Windows to Linux (which has no `generate_view` crashing issues), your only alternative here is to redeposit your items to the new repository one at a time.