

Metacat - Bug #6677

perl registry installation fails

02/27/2015 04:52 PM - Matt Jones

Status:	Closed	Start date:	02/27/2015
Priority:	Normal	Due date:	
Assignee:	ben leinfelder	% Done:	0%
Category:	registry	Estimated time:	0.00 hour
Target version:	2.5.0	Spent time:	0.00 hour
Bugzilla-Id:			
Description			
On Ubuntu, trying to install the perl registry from the binary metacat release fails following the instructions provided in the Admin guide. This may be only a documentation issue, but in particular, we need to clarify how to install Metacat.pm. The Metacat.pm module is provided in the war file, but it is hidden away in the WEB-INF/lib/Metacat.pm. It is unclear how to install it from the documentation. In section 7.2.1, the documentation says to install it using the standard perl Make utilities, but the source code is not provided in the binary release, so this is not possible.			
Related issues:			
Related to Metacat - Bug #6678: Update perl registry installation doc		Closed	02/27/2015

History

#1 - 02/27/2015 05:15 PM - Matt Jones

When installing via src, make does several things:

```
$ sudo make install
Installing /usr/local/share/perl/5.18.2/Metacat.pm
Installing /usr/local/share/perl/5.18.2/auto/Metacat/autosplit.ix
Installing /usr/local/man/man3/Metacat.3pm
Appending installation info to /usr/local/lib/perl/5.18.2/perllocal.pod
```

My guess is that we should be shipping the whole src/perl/Metacat subdirectory, and then running:

```
perl Makefile.PL
make
make install
```

#2 - 02/27/2015 08:05 PM - ben leinfelder

This is a documentation issue. There is no need to make the metacat perl library or do anything to install it. All that needs to be done is install the dependencies (as correctly outlined in the docs) and ensure the cgi files are accessible and executable.

#3 - 03/01/2015 07:23 PM - Matt Jones

That's great. How does that work? Clearly Metacat.pm does need to be accessible to perl on the @INC path, which is normally done by installing it in one of the perl modules library locations. On a test instance, with all of the dependencies installed, we are seeing a perl error in the apache logs saying that Metacat.pm is not on @INC. How does perl know where it is in the war file? I can't find any configuration in /etc/apache2 or /var/lib/tomcat7 modifying the INC path. But when I run the register-dataset.cgi from the commandline on dev I get:

```
Can't locate auto/Metacat/autosplit.ix in @INC (@INC contains: ../WEB-INF/lib /etc/perl /usr/local/lib/perl/5.18.2 /usr/local/share/perl/5.18.2 /usr/lib/perl5 /usr/share/perl5 /usr/lib/perl/5.18 /usr/share/perl/5.18 /usr/local/lib/site_perl .) at /usr/share/perl/5.18/AutoLoader.pm line 181.
at ../WEB-INF/lib/Metacat.pm line 31.
Using a hash as a reference is deprecated at ./register-dataset.cgi line 170.
Using a hash as a reference is deprecated at ./register-dataset.cgi line 171.
Content-type: text/html
```

This indicates that ../WEB-INF/lib is indeed on the @INC path, and that the script executes despite not finding the authsplit.ix file. Would love to know where this is configured so I can debug the other machine.

#4 - 03/03/2015 08:09 AM - ben leinfelder

- Assignee changed from Shaun Walbridge to ben leinfelder

I've never had to update the @INC path -- it has just worked. like it does on dev.nceas.ucsb.edu

Maybe share the error message from your server (hostname?) that does not work?

#5 - 03/03/2015 10:17 AM - ben leinfelder

- *Status changed from New to In Progress*

I can see in register-dataset.cgi that we pull in Metacat.pm with these directives:

```
use lib './WEB-INF/lib';  
use Metacat;
```

Note that Metacat.pm is deployed in WEB-INF/lib along with all the jars. I've never seen the 'autosplit.ix' warning prevent the registry from functioning.

#6 - 03/04/2015 03:24 PM - ben leinfelder

- *Status changed from In Progress to Works For Me*

Updated documentation to remove Make file step.

#7 - 03/04/2015 05:31 PM - Matt Jones

- *Status changed from Works For Me to Closed*

Closing bug as documentation update clears up the issue.

#8 - 03/05/2015 12:08 PM - ben leinfelder

Turns out user did not have mod_cgid enabled on her Apache installation. Works for her now that she enabled it.

```
sudo a2enmod cgid
```

#9 - 03/05/2015 01:14 PM - Jing Tao

When i was trouble shooting the issue on SAEON Metacat, i found the same thing - the cgid module was not installed. Gavin looked at couple ubuntu machines and found some installed the module by default; some didn't. So probably we need to add a note to ask users to double check the module.