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LFC and DPM RPMs

Where to find the code

The LFC and DPM code is located in the EGEE JRa1 Middleware [CVS](#) repository.

It consists of two modules :

- LCG-DM
- DPM-FTP

To be able to check them out, you should set :

```
export CVSROOT=:ext:your_afs_login@glite.cvs.cern.ch:/cvs/glite
export CVS_RSH=ssh
```

RPMs names

The following RPMs are generated from LCG-DM :

- lcg-dm-common (common dependency to LFC & DPM)
- LFC-client
- LFC-server-mysql (and oracle)
- LFC-interfaces (Perl and Python interfaces)
- DPM-client
- DPM-server-mysql (and oracle)
- DPM-name-server-mysql (and oracle)
- DPM-srm-server-mysql (and oracle)
- DPM-rfio-server

And from DPM-FTP :

- DPM-gridftp-server

Requirements

To build the LFC / DPM, the following RPMs are required :

- CGSI_gSOAP
- gsoap-linux
- swig
- Perl
- Python
- gpt-VDT
- vdt_globus_essentials + /opt/globus/lib in /etc/ld.so.conf + run ldconfig
- vdt_globus_sdk

If globus_config.h is missing, run this by hand :

```
export GLOBUS_LOCATION=/opt/globus
export GLOBUS_PATH=/opt/globus
export GPT_LOCATION=/opt/gpt
```

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```
 ${GPT_LOCATION}/sbin/gpt-build -force -nosrc -builddir=/tmp/globus_core.$$ gcc32 gcc32pthr gcc32d
```

As from version 1.4.0, VOMS **version 1.5.4** is also required :

- voms-api-gcc32dbgpthr-gcc3_2_2-1.5.4-1_sl3.i386.rpm
- voms-api-gcc3_2_2-1.5.4-1_sl3.i386.rpm

They are in /afs/cern.ch/project/gd/RpmDir_i386-sl3/wp6.

Once the LFC/DPM RPMs have been built, they are in LCG-DM/RPMS/i386/, and the source RPMs in LCG-DM/SRPMS/

Mysql RPMs

The LCG-DM/config/site.def file determines which directories/modules will be built.

- DPM RPMs :

```
 $ cvs co LCG-DM
 $ cd LCG-DM/
 $ cd scripts
 $ chmod +x choose-module
 $ ./choose-module mysql dpm
 $ cd ..
 $ ./configure
 $ make rpm
```

- LFC RPMs :

```
 $ make clobber
 $ cd scripts/
 $ ./choose-module mysql lfc
 $ cd ..
 $ ./configure
 $ make rpm
```

- lcg-dm-common RPM :

```
 $ make clobber
 $ cd scripts/
 $ chmod +x choose-module
 $ ./choose-module mysql dm
 $ cd ..
 $ ./configure
 $ make rpm
```

Oracle rpms

Set up the Oracle environment beforehand :

```
 $ source /afs/cern.ch/project/oracle/script/setoraenv.sh -s 10103
```

Check that \$ORACLE_HOME and \$LD_LIBRARY_PATH are correctly set.

Then, **replace ./choose-module mysql module by ./choose-module oracle module, and make rpm by make rpm-oracle, and the procedure is the same as for the Mysql RPMs !**

DPM-enabled Gridftp server rpm

The procedure to generate them is :

- check the latest tag, `lcg1_3_8` for instance
- then do :

```
$ cvs co DPM-FTP
$ cd DPM-FTP
$ ./create-DPM-gridftp-rpm lcg1_3_8
```

- check that the build is over in the gridftp log, `DPM_gridftp_rpm/vdt-1.2.0-build/log_date` :

```
$ tail -f DPM_gridftp_rpm/vdt-1.2.0-build/log.051013_151541
...
cvs-build: finished Oct.13.2005 15:52:43
cvs-build: runtime: 35 minutes 4 seconds
```

- when the build is finished, generate the RPMs :

```
$ cd DPM_gridftp_rpm/DPM-FTP
$ make -f Makefile.rpm
$ make -f Makefile.rpm rpm
```

The RPM will be `DPM_gridftp_rpm/DPM-FTP/RPMS/i386/`, and the source RPMs in `DPM_gridftp_rpm/DPM-FTP/SRPMS/`

Comment

These procedures have been integrated into the ETICS build system by Akos Frohner.

Here is the new LFC and DPM release procedure.

-- SophieLemaitre - 01 Nov 2007

This topic: LCG > GenerateLfcDpmRpms

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