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DPM upgrade to \geq 1.6.4

Below, all the steps needed to upgrade the DPM from version $<$ 1.6.4 to version \geq 1.6.4.

If you use YAIM to upgrade, everything is done automatically, and you don't need to do the following steps

Stop all daemons

In the following order, on the appropriate machines:

- `service dpm-gsift stop` on all disk servers
- `service srmv2.2 stop` on the SRM host
- `service srmv2 stop` on the SRM host
- `service srmv1 stop` on the SRM host
- `service dpm stop` on the DPM host
- `service rfiiod stop` on all the disk servers
- `service dpnsdaemon stop` on the DPNS host

Install the new RPMs

All of them, on the appropriate node(s):

- `DPM-server`
- `DPM-name-server`
- `DPM-srm-server`
- `DPM-rfio-server`
- `DPM-gridftp-server`
- `DPM-client`

Database backup

IMPORTANT

As the migration script modifies the database content, **we highly recommend that you take a backup of the DPM database before running the migration script.** Please backup the `dpm_db` database beforehand.

Run the migration script

To support secondary groups, a database schema change is needed. The migration script is included in the `DPM-name-server` RPM.

Requirements:

- Perl-DBD (for Mysql or Oracle)
- Perl-DBI

NOTE Depending of the number of entries in the database, the script takes more or less time. So, be patient !

Example for a Mysql DPM

```
$ ./dpm_secondary_groups --db-vendor MySQL --db localhost --user dpm --pwd-file /root/pwd --dpm-d
```

Example for an Oracle DPM

```
$ ./dpm_secondary_groups --db-vendor Oracle --db devdb --user sophie --pwd-file /root/pwd --verbo
```

Troubleshooting

Error when running the script twice

The script should be run only once. If you run it twice, the following error will appear:

```
$ ./dpm_secondary_groups --db-vendor MySQL --db localhost --user dpm --pwd-file /root/pwd --dpm-d
Tue Mar 27 10:49:24 2007 : Starting to update the DPNS/DPM database.
Please wait...
failed to query and/or update the DPM database : DBD::mysql::db do failed: Duplicate column name
Issuing rollback() for database handle being DESTROY'd without explicit disconnect().
```

Error on rename

We believe the following error `Error on rename` is due to a bug in `MySQL`.

```
failed: Error on rename of './dpm_db/#sql-4083_25' to './dpm_db/dpm_pool' (errno: 150)
at UpdateDpmDatabase.pm line 118.
Issuing rollback() for database handle being DESTROY'd without explicit disconnect().
Issuing rollback() for database handle being DESTROY'd without explicit disconnect().
```

You should:

- drop the foreign key
- run the script again
- re-create the foreign key

```
mysql> use dpm_db;
mysql> alter table dpm_fs drop foreign key fk_fs;

$ ./dpm_secondary_groups --db-vendor MySQL --db localhost --user dpm --pwd-file /root/pwd --dpm-d

mysql> alter table dpm_fs add CONSTRAINT fk_fs FOREIGN KEY (poolname) REFERENCES dpm_pool (poolna
```

Undefined subroutine

You get:

```
Undefined subroutine &UpdateDpmDatabase::modify_dpm_db_before_updating_fields_mysql
called at ./dpm_secondary_groups line 113.
```

To solve this, you should (re)define the `$PERLLIB` environment variable:

```
$ export PERLLIB=/opt/lcg/share/DPM/dpm-secondary-groups:$PERLLIB
```

Restart the daemons

- `service dpnsdaemon start` on the DPNS host
- `service rfiod start` on all the disk servers
- `service dpm start` on the DPM host
- `service srmv1 start` on the SRM host
- `service srmv2 start` on the SRM host

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- `service srmv2.2 start` on the SRM host
- `service dpm-gsiftp start` on all disk servers

-- SophieLemaitre - 19 Jun 2007

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