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DPM Flushing Old Requests utility

Introduction

This page describes how to flush old requests (put, get, copy and bring online requests) of the DPM DB. Tables affected are `dpm_put_filereq`, `dpm_get_filereq`, `dpm_req` and `dpm_copy_filereq`. For the moment, the tool works only for MySQL DB. if you need it for Oracle, please send me a mail. This tool **must be used** as long as the flushing mechanism is not integrated in the DPM server.

Outline of the tool

The tool consists of a command line `dpm-flush-req` which takes the following input arguments:

- **dpm_db_name** : the DPM DB name (yaim uses by default `dpm_db`). However there is no default value
- **dpm_db_host** : the DPM MySQL DB host name (need to be put even if you run the command locally, i.e. if `localhost` is passed as `dpm_db_host`, the db connection will fail)
- **dpm_db_pwd** : password of the DPM DB
- **dpm_db_user** : login of the DPM DB (yaim by default uses `dpmmgr`)
- **max_request_lifetime** : maximum time to keep a request in the tables. Time to be given in seconds. If this argument is omitted, the default value is 2592000

Installation

- Download and extract the tar file. Type `make` and if needed edit the makefile to match your environment.
- The executable and the log files will be located in the output directory.
- you will need `mysql-devel` : `yum install mysql-devel`

Example of usage

To delete old requests which have been performed two months (5270400 sec) before, type:

```
./dpm-flush-oldreq --dpm_db_name dpm_db --dpm_db_pwd
```

Then look at the log file produced `dpm-flush-oldreq.log` to see if the execution was successful.

Remark

if the number of requests to be flushed is very big around millions of row, it might be a good idea to start this script before migrating to a new DPM version so that it doesn't impact the performance of the DPM. it takes roughly one hour to delete around a few millions of old requests. Of course the execution time will depend on the DPM load.

Any problems or questions?

- if you get the following error in the log file: **the total number of locks exceeds the lock table size**, then you need to increase the **innodb_buffer_size** as follows:
 - ◆ edit your `/etc/my.cnf` (MySQL configurable parameters)
 - ◆ add in `[mysqld]` section : `innodb_buffer_pool_size=256M` (provided that this value does not exceed 80% of the physical memory of the machine).

- ◆ restart mysql (service mysql/mysqld restart resp for SL3/SL4)

send me a mail

-- LanaAbadie - 15 Oct 2007

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