

McFarmDB User Guide

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FILES:

The project files are McFarmStore.py, FarmDB.py, Info.py, StoreXML.py and config. They are located in ~mctest/python directory.

CONFIGURATION:

The configuration details are given in a file config. Database & XML related parameters have to be given in the following format.

```
DB_SERVER    hepfm001.uta.edu
DB_NAME      McFarmPerformanceMonitoring
DB_USER      bimal
DB_PASSWORD  passwd
XML_DIR      /home/mctest
```

ENVIRONMENT:

MySQL has to be installed with the python module. The module can be downloaded from <http://sourceforge.net/projects/mysql-python>. The installation instructions are given in the readme.txt file.

The python environment should have access to MySQLdb module.

Example:

```
export PYTHONPATH="$PYTHONPATH:/home/mctest/mysql/MySQL-python-1.0.0/build/lib.linux-i686-2.1"
```

USAGE DETAILS:

McFarmStore.py can be executed at regular intervals to collect job details from archived jobs. The job details are stored in the database into different tables corresponding to Phases, Requests etc. Also an XML file LatestJobs.xml will be created every time McFarmStore.py is run. This file will have details of newly archived jobs in XML format.

StoreXML.py can be executed to collect details from the database. An XML file Req.XML will be generated with Requests & the jobs corresponding to each request shown in XML format.

Entries in the MySQL database can be verified by connecting to DB server.

Example:

```
mysql -h hepfm001.uta.edu -u User -p
```