

Table of Contents

LFC General Description.....	1
Description.....	1
How to install/administer it ?.....	1
How to run the LFC as a service ?.....	1
Questions ?.....	1

LFC General Description

Description

The LFC (LCG File Catalog) is a catalog containing logical to physical file mappings. Depending on the VO deployment model, the LFC is installed centrally or locally.

The LFC is a secure catalog, supporting GSI security and VOMS.

In the LFC, a given file is represented by a Grid Unique Identifier (GUID). A given file replicated at different sites is then considered as the same file, thanks to this GUID, but (can) appear as a unique logical entry in the LFC catalog.

The LFC allows to see the logical file names in a hierarchical structure :

```
lfc-ls -l /grid/dteam/production
-rw-rw-r-- 1 107 105 786 Feb 23 17:22 1140711751-file.txt
-rw-rw-r-- 1 107 105 786 Feb 23 17:26 1140711971-file.txt
-rw-rw-r-- 1 107 105 786 Feb 23 17:27 1140712023-file.txt
-rw-rw-r-- 1 107 105 786 Feb 23 18:54 1140717282-file.txt
-rw-rw-r-- 1 107 105 786 Feb 23 18:58 1140717524-file.txt
-rw-rw-r-- 1 107 105 786 Feb 23 18:59 1140717546-file.txt
lrwxrwxrwx 1 18947 2688 0 Jun 02 14:57 my-file -> /grid/dteam/tests/my-
```

How to install/administer it ?

The LFC can be installed :

- via YAIM, or
- "by hand"

For details, refer to the [LFC Admin Guide](#).

How to run the LFC as a service ?

This [LFC Administration for Tier2s](#) presentation explains how to run and support an LFC service at your site.

Questions ?

Please contact GGUS helpdesk for support

-- SophieLemaitre - 19 Jun 2006

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