

Table of Contents

LFC API / CLI.....	1
LFC Client Timeouts.....	1
LFC Command Line Interface.....	1
LFC API.....	1
Perl / Python Interfaces.....	3
Help !.....	3

LFC API / CLI

All the LFC man pages can be found here : [LFC CLI and API](#).

Below is a description of each LFC command / method.

LFC Client Timeouts

From version 1.5.8 onwards, timeouts and retries are implemented at the LFC client level.

3 environment variables can be used:

- `$LFC_CONNTIMEOUT` -> sets the connect timeout in seconds
- `$LFC_CONRETRY` -> sets the number of retries
- `$LFC_CONRETRYINT` -> sets the retry interval in seconds

The default is to retry for one week.

LFC Command Line Interface

COMMAND	DESCRIPTION
<code>lfc-chmod</code>	change access mode of a LFC directory/file in the name server
<code>lfc-chown</code>	change owner and group of a LFC directory/file in the name server
<code>lfc-delcomment</code>	delete the comment associated with a file/directory
<code>lfc-entergrpmap</code>	define a new group entry in Virtual Id table
<code>lfc-enterusrmap</code>	define a new user entry in Virtual Id table
<code>lfc-getacl</code>	get LFC directory/file access control lists
<code>lfc-ln</code>	make a symbolic link to a file or a directory in the LFC Name Server
<code>lfc-ls</code>	list LFC name server directory/file entries
<code>lfc-mkdir</code>	make LFC directory in the name server
<code>lfc-modifygrpmap</code>	modify group entry corresponding to a given virtual gid
<code>lfc-modifyusrmap</code>	modify user entry corresponding to a given virtual uid
<code>lfc-rename</code>	rename a LFC file or directory in the name server
<code>lfc-rm</code>	remove LFC files or directories in the name server
<code>lfc-rmgrpmap</code>	suppress group entry corresponding to a given virtual gid or group name
<code>lfc-rmusrmap</code>	suppress user entry corresponding to a given virtual uid or user name
<code>lfc-setacl</code>	set LFC directory/file access control lists
<code>lfc-setcomment</code>	add/replace a comment associated with a file/directory

For more details, please refer to the corresponding man page.

LFC API

COMMAND	DESCRIPTION
<code>lfc_aborttrans</code>	abort a transaction
<code>lfc_access</code>	check existence/accessibility of a file/directory
<code>lfc_addreplica</code>	add a replica for a given file

LfcApi < LCG < TWiki

lfc_chdir	change LFC current directory used by the name server
lfc_chmod	change access mode of a LFC directory/file in the name
lfc_chown	change owner and group of a LFC directory/file in the name server
lfc_closedir	close LFC directory opened by lfc_opendir in the name server
lfc_creatg	create a new LFC file with the specified GUID or reset it in the name server
lfc_delcomment	delete the comment associated with a LFC file/directory in the name server
lfc_delreplica	delete a replica for a given file
lfc_endsess	end session
lfc_endtrans	end transaction mode
lfc_entergrpmap	define a new group entry in Virtual Id table
lfc_enterusrmap	define a new user entry in Virtual Id table
lfc_getacl	get LFC directory/file access control lists
lfc_getcomment	get the comment associated with a LFC file/directory in the name server
lfc_getcwd	get LFC current directory used by the name server
lfc_getgrpbygid	get group name associated with a given virtual gid
lfc_getgrpbynam	get virtual gid associated with a given group name
lfc_getidmap	get virtual uid/gid(s) associated with a given dn/role(s)
lfc_getlinks	get the link entries associated with a given file
lfc_getreplica	get the replica entries associated with a LFC file in the name server
lfc_getusrbynam	get virtual uid associated with a given user name
lfc_getusrbyuid	get user name associated with a given virtual uid
lfc_lchown	identical to lfc_chown except for symbolic links: it does not follow the link but changes the ownership of the link itself
lfc_listlinks	list link entries for a given file
lfc_listrep4gc	list replica entries that can be garbage collected
lfc_listreplica	list replica entries for a given file
lfc_listreplicax	list replica entries for a given pool/server/filesystem
lfc_mkdir	create a new LFC directory in the name server
lfc_mkdirg	create a new LFC directory in the name server with the specified GUID
lfc_modifygrpmap	modify group entry corresponding to a given virtual gid
lfc_modifyusrmap	modify user entry corresponding to a given virtual uid
lfc_opendirg	open a LFC directory, having the specified GUID, in the name server
lfc_opendirxg	open a LFC directory, having the specified GUID, in the name server
lfc_readdir	read LFC directory opened by lfc_opendir in the name server
lfc_readdirc	identical to lfc_readdir + returns the comments
lfc_readdirg	identical to lfc_readdir + returns the GUID
lfc_readdirxc	
lfc_readdirxr	identical to lfc_readdir + returns the replicas
lfc_readlink	read value of a symbolic link in the LFC Name Server
lfc_rename	rename a LFC file or directory in the name server
lfc_rewinddir	reset position to the beginning of a LFC directory opened by lfc_opendir in the name server
lfc_rmdir	remove a LFC directory in the name server
lfc_rmgrpmap	suppress group entry corresponding to a given virtual gid or group name
lfc_rmusrmap	suppress user entry corresponding to a given virtual uid or user name
lfc_setacl	set LFC directory/file access control lists
lfc_setatime	set last access time for a regular file to the current time
lfc_setcomment	add/replace a comment associated with a LFC file/directory in the name server
lfc_seterrbuf	set receiving buffer for error messages
lfc_setfsize	set filesize for a regular file; set also last modification time to the current time

lfc_setfilesize	set filesize for a regular file having the given GUID; set also last modification time to the current time
lfc_setptime	set replica pin time
lfc_setratime	set replica last access (read) date
lfc_setrstatus	set replica status
lfc_startsess	start session
lfc_starttrans	start transaction mode
lfc_statg	get information about a LFC file or directory in the name server
lfc_statr	get information about a LFC file or directory in the name server
lfc_symlink	make a symbolic link to a file or a directory in the LFC Name Server
lfc_umask	set and get LFC file creation mask used by the name server
lfc_unlink	remove a LFC file entry in the name server
lfc_utime	set last access and modification times

For more details, please refer to the corresponding man page.

Perl / Python Interfaces

Please refer to the `lfc_perl` and `lfc_python` man pages for details and usage examples.

Help !

For any help/question, please contact GGUS at helpdesk@ggusNOSPAMPLEASE.org (remove the NOSPAM !). Your ROC will help you, and contact the appropriate experts if necessary.

-- SophieLemaitre - 16 Mar 2006

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