

Quality Criteria Verification Report

| | | | |
|--------------------------|--|------------------|-----------------|
| Product | EMI.emi-ui.sl6.x86_64-3.1.0 EMI.emi-ui.sl5.x86_64-3.1.0 | Release | 3.1.0 |
| Software Provider | EMI | RT Ticket | #7571 and #7573 |
| Provider contact | Cristina Aiftimiei <cristina.aiftimiei@pd.infn.it> | | |
| Verifier | Ruben Diez (rdiez@cesga.es) | | |
| Hours worked | 16h | Date | 23/10/14 |
| Status | Accepted | | |

Summary

In the verification process some repository related issues were found, but they have been corrected by the developer team.

Also, a bug was found in the package “gfal2-util”. It is only for SL5. All the verification was made with the bug removed. Please note that in the time of this verification the bug was not yet applied in the available online release. A corrected package was installed after the verification and the affected commands were tested with satisfactory result.

Related tickets

https://ggus.eu/index.php?mode=ticket_info&ticket_id=109527

Documentation Criteria

| Document | |
|---------------------|---|
| Release notes | http://www.eu-emi.eu/releases/emi-3-monte-bianco/updates/-/asset_publisher/5Na8/content/update-20-12-09-2014-v-3-11-0-1#UI_WN_v_3_1_0 |
| User Documentation | https://twiki.cern.ch/twiki/pub/EMI/EMIui/EMI_UI_v_3_0_0-1.pdf |
| API Documentation | http://egee.cesnet.cz/cvsweb/LB/LBDG.pdf |
| Admin Documentation | https://twiki.cern.ch/twiki/pub/EMI/EMIui/EMI_UI_v_3_0_0-1.pdf |
| Software License | |

Generic Criteria

| Criteria | Status ¹ | Additional Comments |
|----------------------------|---------------------|---------------------|
| Binary Distribution | OK | |
| Upgrade | OK | |
| X.509 Certificate support | OK | |
| SHA-2 Certificates Support | OK | |

¹OK, WARN, FAIL, NA (Not Applicable) or NT (Not Tested)

| | | |
|-----------------------------------|-----------|---------------|
| RFC Proxy support | OK | |
| ARGUS Integration | NA | |
| World Writable Files | NT | Minor release |
| Passwords in world readable files | NT | Minor release |
| GlueSchema 1.3 Support | OK | |
| GlueSchema 2.0 Support | OK | |
| Middleware Version Information | NT | Minor release |
| Service Probes | OK | |
| Accounting Records | NA | |
| Bug Tracking System | OK | |

Specific QC

Basic Functionality Test

== Verification of emi-ui.sl6.x86_64-3.1.0 ==

=== Ticket assigned ===

* [<https://rt.egi.eu/rt/Ticket/Display.html?id=7571>]

=== Repositories ===

(!) Verifier must install a new repo for each product, this information is available at RT ticket field:

```

{{{
  cat EMI.emi-ui.sl6.x86_64.repo
  # EGI Software Repository - REPO META
  (releaseId,repositoryId,repofileId) - (7571,1684,1614)

```

```

[EMI.emi-ui.sl6.x86_64]
name=EMI.emi-ui.sl6.x86_64
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-3.emi.emi-
ui.sl6.x86_64/3/1/0/
enabled=1
protect=1
priority=1
gpgcheck=1
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/3/RPM-GPG-KEY-emi

```

```

}}}
```

```

{{{
yum clean all; yum update
}}}
```

=== Updating (OK) ===

```

{{{
=====
=====
=====

```

| Package Version Size | Arch Repository |
|--------------------------------------|---------------------------------|
| ===== | |
| ===== | |
| ===== | |
| Updating: | |
| emi-ui 3.1.0-1.el6 5.1 k | x86_64 EMI.emi-ui.sl6.x86_64 |
| occi-cli 4.2.5-2 22 M | x86_64 rocci.cli-sl-6-x86_64 |
| Installing for dependencies: | |
| ginfo 1.0.2-1.el6 9.7 k | noarch epel |
| python-ldap 2.3.10-1.el6 124 k | x86_64 sl |

Transaction Summary

```
=====
=====
=====
}}}
```

==== Configuring with YAIM (OK) =====

```
{{{
/opt/glite/yaim/bin/yaim -c -s
/root/configuration_templates/EMI/UI/site-info.def -n UI
}}}
```

==== Testing =====

```
{{{
* Submitting a MPI and a normal job (OK)

{{{
[rdiez@test13 ~]$ voms-proxy-init --voms ops:/ops/Role=lcgadmin
Enter GRID pass phrase for this identity:
Contacting lcg-voms.cern.ch:15009 [/DC=ch/DC=cern/OU=computers/CN=lcg-
voms.cern.ch] "ops"...
Remote VOMS server contacted succesfully.
```

Created proxy in /tmp/x509up_u514.

Your proxy is valid until Fri Oct 17 05:40:18 CEST 2014

```
[rdiez@test13 ~]$ voms-proxy-info
subject    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=proxy
issuer     : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
```

```
identity : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type : full legacy globus proxy
strength : 1024
path : /tmp/x509up_u514
timeleft : 11:59:28
key usage : Digital Signature, Key Encipherment
```

```
[rdiez@test13 ~]$ glite-ce-delegate-proxy -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez] succesfully delegated to endpoint
[test06.egi.cesga.es]
```

```
[rdiez@test13 ~]$ glite-ce-proxy-renew -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez] succesfully renewed to endpoint
[test06.egi.cesga.es]
```

```
}}}
```

```
{{{
[rdiez@test13 ~]$ glite-ce-job-submit -D rdiez -r
test06.egi.cesga.es:8443/cream-pbs-GRID_ops check_bug.jdl
https://test06.egi.cesga.es:8443/CREAM381787484
```

```
[rdiez@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM381787484
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM381787484]
Status = [DONE-OK]
ExitCode = [0]
```

```
}}}
```

```
{{{
```

```
[rdiez@test13 ~]$ cd mpi_job_grid_verification/
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-submit -D rdiez
-r test06.egi.cesga.es:8443/cream-pbs-GRID_ops job1.jdl
https://test06.egi.cesga.es:8443/CREAM287305905
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM287305905
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM287305905]
Status = [DONE-OK]
ExitCode = [1]
```

```
}}}
```

```
* Trying to copy and delete a file on the SE (OK)
```

```
{{{
```

```
[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es
```

```
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/testc_rdiez -d test08.egi.cesga.es
```

```
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filecaa0ee0e-9fc8-47b1-b029-3d57da0b68c0
Source SRM Request Token: 5f6f667a-5566-419d-ad9b-76736d04fde7
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: test08.egi.cesga.es
Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-
16/filecaa0ee0e-9fc8-47b1-b029-3d57da0b68c0.19354.0
# streams: 1
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst
          38 bytes          0.33 KB/sec avg          0.33 KB/sec inst
```

```
Transfer took 1010 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filecaa0ee0e-9fc8-47b1-b029-3d57da0b68c0
File size: 38
Using LFN: lfn:/grid/ops/testc_rdiez
Using GUID: guid:fbfa1253-8367-42ee-99fd-e247f99e410e
Registering LFN: /grid/ops/testc_rdiez (fbfa1253-8367-42ee-99fd-
e247f99e410e)
Registering SURL:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filecaa0ee0e-9fc8-47b1-b029-3d57da0b68c0 (fbfa1253-8367-42ee-99fd-
e247f99e410e)
guid:fbfa1253-8367-42ee-99fd-e247f99e410e
```

```
}}}
```

```
{
[rdiez@test13 ~]$ lcg-ls -v
srm://grid002.ft.uam.es:8443/pnfs/ft.uam.es/data/
SE type: SRMv2
/pnfs/ft.uam.es/data/temp
/pnfs/ft.uam.es/data/users
/pnfs/ft.uam.es/data/atlas
/pnfs/ft.uam.es/data/ops
/pnfs/ft.uam.es/data/dteam
/pnfs/ft.uam.es/data/ops.vo.ibergrid.eu
/pnfs/ft.uam.es/data/phys.vo.ibergrid.eu
```

```
}}}
```

```
{
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest2 -d se2.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
```

```
SE type: SRMv2
Destination SURL :
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filec50765a1-099a-4f25-a7ba-377b59f8b2dc
Source SRM Request Token: 58949b7d-b234-4557-beab-a0c68d93d1a2
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: se2.egi.cesga.es
Destination URL for copy:
gsiftp://se2.egi.cesga.es/se2.egi.cesga.es:/storage/ops/2014-10-
16/filec50765a1-099a-4f25-a7ba-377b59f8b2dc.16671492.0
# streams: 1
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst
          38 bytes          0.36 KB/sec avg          0.36 KB/sec inst
```

```
Transfer took 1010 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filec50765a1-099a-4f25-a7ba-377b59f8b2dc
File size: 38
Using LFN: lfn:/grid/ops/filefgtest2
Using GUID: guid:99637ca0-4797-4a8e-ba14-700eb3225f16
Registering LFN: /grid/ops/filefgtest2 (99637ca0-4797-4a8e-ba14-
700eb3225f16)
Registering SURL:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filec50765a1-099a-4f25-a7ba-377b59f8b2dc (99637ca0-4797-4a8e-ba14-
700eb3225f16)
guid:99637ca0-4797-4a8e-ba14-700eb3225f16
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest2
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
16/filec50765a1-099a-4f25-a7ba-377b59f8b2dc
```

```
[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/filefgtest2
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest2
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/filefgtest2: No
such file or directory
lcg_lr: No such file or directory
```

```
[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/testc_rdiez
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/testc_rdiez
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/testc_rdiez: No
such file or directory
lcg_lr: No such file or directory
```

```
}}}
```

```
* Checking the VOMS PROXY INFO (OK)
```

```
{{{
[rdiez@test13 ~]$ voms-proxy-info --all
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=proxy
issuer    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
```

```
identity : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type      : full legacy globus proxy
strength  : 1024
path      : /tmp/x509up_u514
timeleft  : 11:36:16
key usage : Digital Signature, Key Encipherment
=== VO ops extension information ===
VO        : ops
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
issuer    : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute : /ops/Role=lcgadmin/Capability=NULL
attribute : /ops/NGI/Role=NULL/Capability=NULL
attribute : /ops/NGI/Portugal/Role=NULL/Capability=NULL
attribute : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute : /ops/Role=NULL/Capability=NULL
timeleft  : 11:36:16
uri       : lcg-voms.cern.ch:15009
```

```
}}}
```

```
{{{
```

World writable files (OK)

An easy way to find world-writable files is using the find command:

```
find / -type f -perm -002 -exec ls -l {} \;
```

For finding world-writable files in the packages contents:

```
rpm -qalv | egrep "^[-d]([-r][-w][-xs]){2}[-r]w"
drwxrwxrwt    2 root    root                0 jul 20  2011
/tmp
drwxrwxrwt    2 root    root                0 jul 20  2011
/var/tmp
```

```
}}}
```

* gfal2 stuff:

```
{{{
```

```
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es
[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 ~]$ lfc-ls /grid/ops
filefgtest150714_v2
```

```
[rdiez@test13 ~]$ dpns-ls /dpm/egi.cesga.es/home
cesga
dteam
iber.vo.ibergrid.eu
ops
ops.vo.ibergrid.eu
```

```
}}}
```

```
{{{
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
drwxrwxr-x 1 2 2 May 16 2013 0.0 mytest None
-rw-rw-r-- 1 2 2 Jul 15 13:39 38 test150714 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
drwxrwxr-x 1 2 2 Oct 22 2009 0.0 alice None
drwxrwxr-x 1 2 2 Jun 24 2010 0.0 atlas None
drwxrwxr-x 1 2 2 Mar 5 2012 0.0 auger None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 bing.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 16 16:47 0.0 biomed None
drwxrwxr-x 1 2 2 Oct 26 2011 0.0 cesga None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 chem.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 26 2009 0.0 cms None
drwxrwxr-x 1 2 2 Feb 8 2012 0.0 compchem None
drwxrwxr-x 1 2 2 Jun 1 2008 0.0 diligent None
drwxrwxr-x 1 2 2 Sep 7 2011 0.0 dteam None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 earth.vo.ibergrid.eu None
[.....]
```

```
[rdiez@test13 ~]$ gfal-ls
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
alice
atlas
auger
bing.vo.ibergrid.eu
biomed
cesga
chem.vo.ibergrid.eu
cms
compchem
diligent
dteam
earth.vo.ibergrid.eu
eng.vo.ibergrid.eu
fusion
hpc.vo.ibergrid.eu
iber.vo.ibergrid.eu
[.....]
```

```
}}}
```

```
{{{
```

```
[rdiez@test13 ~]$ gfal-copy
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/testfile-put-
1401882691-cf0388798004.txt file:/home/rdiez/testjul
Copying 1 [DONE] after 2s
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testfile-put-1404293132-
52addc5eb585.txt file:/home/rdiez/testjul2
```


Copying 1 [DONE] after 1s

```
[rdiez@test13 ~]$ gfal-copy file:/home/rdiez/hola.sh
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test171014
Copying 1 [DONE] after 1s
```

}}}

```
{{{
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest -d test08.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
17/filec68db05d-b1ad-441f-ab98-f8be0f492769
Source SRM Request Token: 4cebe9cc-4990-41cf-a7cd-9a9652018e74
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: test08.egi.cesga.es
Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-
17/filec68db05d-b1ad-441f-ab98-f8be0f492769.19418.0
# streams: 1
           0 bytes      0.00 KB/sec avg      0.00 KB/sec inst
          38 bytes      0.21 KB/sec avg      0.21 KB/sec inst
```

```
Transfer took 1010 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
17/filec68db05d-b1ad-441f-ab98-f8be0f492769
File size: 38
Using LFN: lfn:/grid/ops/filefgtest
Using GUID: guid:0fb13533-6d45-4624-836c-6b47ccf99234
Registering LFN: /grid/ops/filefgtest (0fb13533-6d45-4624-836c-
6b47ccf99234)
Registering SURL:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
17/filec68db05d-b1ad-441f-ab98-f8be0f492769 (0fb13533-6d45-4624-836c-
6b47ccf99234)
guid:0fb13533-6d45-4624-836c-6b47ccf99234
}}}
```

{{{

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test171014
lfc://test09.egi.cesga.es/grid/ops/filefgtest
Copying 1 [FAILED] after 0s
gfal-copy: error: Invalid argument
```

```
[rdiez@test13 mpi_job_grid_verification]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test171014 lfn://grid/ops/filefgtest
Copying 1 [FAILED] after 0s
gfal-copy: error: Invalid argument
```

```
}}}
```

```
{
[rdiez@test13 mpi_job_grid_verification]$ gfal-ls lfn://grid/ops/
filefgtest
filefgtest150714_v2
```

```
[rdiez@test13 mpi_job_grid_verification]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
drwxrwxr-x 1 2 2 May 16 2013 0.0 mytest None
-rw-rw-r-- 1 2 2 Jul 15 13:39 38 test150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:05 38 test171014 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
```

```
}}}
```

```
{
[rdiez@test13 mpi_job_grid_verification]$ gfal-rm
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test150714
```

```
[rdiez@test13 mpi_job_grid_verification]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
drwxrwxr-x 1 2 2 May 16 2013 0.0 mytest None
-rw-rw-r-- 1 2 2 Oct 17 08:05 38 test171014 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
```

```
}}}
```

```
{
[rdiez@test13 mpi_job_grid_verification]$ gfal-mkdir
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdir161014
```

```
[rdiez@test13 mpi_job_grid_verification]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
drwxrwxr-x 1 2 2 May 16 2013 0.0 mytest None
-rw-rw-r-- 1 2 2 Oct 17 08:05 38 test171014 None
drwxrwxr-x 1 2 2 Oct 17 08:49 0.0 testdir161014 None
```

```
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-52addc5eb585.txt None
```

```
[rdiez@test13 mpi_job_grid_verification]$ gfal-rm -r  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/testdir161014
```

```
[rdiez@test13 mpi_job_grid_verification]$ gfal-ls -Hl  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/  
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None  
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None  
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None  
drwxrwxr-x 1 2 2 May 16 2013 0.0 mytest None  
-rw-rw-r-- 1 2 2 Oct 17 08:05 38 test171014 None  
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-52addc5eb585.txt None  
}}}
```

```
{{  
[rdiez@test13 ~]$ cat hola.sh |gfal-save  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014
```

```
[rdiez@test13 ~]$ gfal-cat  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014  
#!/bin/bash
```

```
##sleep 60  
hostname  
date
```

```
}}}
```

```
{{  
[rdiez@test13 ~]$ gfal-sum  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/test171014 MD5  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/test171014  
e8a436b9f55861dce93c946464a44d63  
}}}
```

```
{{  
[rdiez@test13 ~]$ gfal-xattr  
srm://test08.egi.cesga.es:8446/srm/managerv2?  
SFN=/dpm/egi.cesga.es/home/ops/test171014  
user.replicas = rfio://test08.egi.cesga.es//storage/ops/2014-10-17/test171014.19417.0  
user.status = ONLINE  
}}}
```

* Information about how to use gfalFS is provided in the following link, <https://svnweb.cern.ch/trac/lcgutil/wiki/gfalFS>
(!) Before starting, must be executed as root user the following command:

```
{{
```

```
[root@test13 ~]# groups rdiez
rdiez : rdiez
[root@test13 ~]# usermod -a -G fuse rdiez
```

```
[root@test13 ~]# groups rdiez
rdiez : rdiez fuse
}}
```

* It is necessary to configure iptable on LFC or SE before trying gfalFS and in order to give mount permissions:

```
{{{
[rdiez@test13 ~]$ mkdir mount_lfc_test09

[rdiez@test13 ~]$ gfalFS -v /home/rdiez/mount_lfc_test09
lfc://test09.egi.cesga.es/grid/ops/
verbose mode....

[rdiez@test13 ~]$ ls mount_lfc_test09/
filefgtest filefgtest150714_v2

[rdiez@test13 ~]$ mount |grep mount_lfc_test09
gfalFS on /home/rdiez/mount_lfc_test09 type fuse.gfalFS
(rw,nosuid,nodev,user=rdiez)

[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/filefgtest150714_v2
#!/bin/bash

##sleep 60
hostname
date

[rdiez@test13 ~]$ gfalFS_umount /home/rdiez/mount_lfc_test09/

rdiez@test13 ~]$ mount |grep mount_lfc_test09

}}}
```

```
{{{
[rdiez@test13 ~]$ gfalFS -v /home/rdiez/mount_lfc_test09
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
verbose mode....

[rdiez@test13 ~]$ mount |grep mount_lfc_test09
gfalFS on /home/rdiez/mount_lfc_test09 type fuse.gfalFS
(rw,nosuid,nodev,user=rdiez)

[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/
cattest_150714 cattest_171014 generated mytest my_test test171014
testfile-put-1404293132-52addc5eb585.txt

[rdiez@test13 ~]$ cp hola.sh /home/rdiez/mount_lfc_test09/
[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/hola.sh
#!/bin/bash

##sleep 60
hostname
```

date

```
[rdiez@test13 ~]$ rm /home/rdiez/mount_lfc_test09/hola.sh
```

```
[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/hola.sh
ls: cannot access /home/rdiez/mount_lfc_test09/hola.sh: No such file
or directory
```

```
[rdiez@test13 ~]$ gfalFS_umount /home/rdiez/mount_lfc_test09
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
}}}
```

* Using a RFC proxy

(!) NOTE: delegate proxy already active, so command "glite-ce-delegate-proxy -e test06.egi.cesga.es rdiez" not necessary

```
{{{
[rdiez@test13 ~]$ voms-proxy-init -rfc --voms ops:/ops/Role=lcgadmin
Enter GRID pass phrase for this identity:
Contacting lcg-voms.cern.ch:15009 [/DC=ch/DC=cern/OU=computers/CN=lcg-
voms.cern.ch] "ops"...
Remote VOMS server contacted succesfully.
```

Created proxy in /tmp/x509up_u514.

```
[rdiez@test13 ~]$ voms-proxy-info --all
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=387258055
issuer    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
identity  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type      : RFC3820 compliant impersonation proxy
strength  : 1024
path      : /tmp/x509up_u514
timeleft  : 11:58:50
key usage : Digital Signature, Key Encipherment
=== VO ops extension information ===
VO        : ops
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
issuer    : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute : /ops/Role=lcgadmin/Capability=NULL
attribute : /ops/NGI/Role=NULL/Capability=NULL
attribute : /ops/NGI/Portugal/Role=NULL/Capability=NULL
attribute : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute : /ops/Role=NULL/Capability=NULL
timeleft  : 11:58:50
uri       : lcg-voms.cern.ch:15009
```

```
[rdiez@test13 ~]$ glite-ce-proxy-renew -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez succesfully renewed to endpoint
[test06.egi.cesga.es]
```

```
}}}
```

* Jobs probes

```
{{{  
[rdiez@test13 ~]$ glite-ce-job-submit -D rdiez -r  
test06.egi.cesga.es:8443/cream-pbs-GRID_ops check_bug.jdl  
https://test06.egi.cesga.es:8443/CREAM883824512
```

```
[rdiez@test13 ~]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM883824512
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM883824512]  
        Status      = [DONE-OK]  
        ExitCode     = [0]
```

```
}}}
```

```
{{{  
[rdiez@test13 ~]$ cd mpi_job_grid_verification/
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-submit -D rdiez  
-r test06.egi.cesga.es:8443/cream-pbs-GRID_ops job1.jdl  
https://test06.egi.cesga.es:8443/CREAM368484227
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM368484227
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM368484227]  
        Status      = [RUNNING]
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-status  
https://test06.egi.cesga.es:8443/CREAM368484227
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM368484227]  
        Status      = [DONE-OK]  
        ExitCode     = [1]
```

```
}}}
```

* Trying to copy and delete a file on the SE (OK)

```
{{{  
[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es
```

```
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l  
lfn:/grid/ops/testd_rdiez -d test08.egi.cesga.es  
Using grid catalog type: lfc  
Using grid catalog : test09.egi.cesga.es  
Checksum type: None  
SE type: SRMv2  
Destination SURL :  
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-  
17/file825d9881-1923-4601-aeb9-7a3881b98c3b  
Source SRM Request Token: 300bb50f-facc-4e75-9724-5b981e380365  
Source URL: file:/home/rdiez/hola.sh  
File size: 38  
VO name: ops  
Destination specified: test08.egi.cesga.es
```

Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-17/file825d9881-1923-4601-aeb9-7a3881b98c3b.19449.0

streams: 1

| | | |
|----------|-----------------|------------------|
| 0 bytes | 0.00 KB/sec avg | 0.00 KB/sec inst |
| 38 bytes | 0.28 KB/sec avg | 0.28 KB/sec inst |

Transfer took 1010 ms

Using grid catalog type: lfc

Using grid catalog : test09.egi.cesga.es

Site URL to be registered:

srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file825d9881-1923-4601-aeb9-7a3881b98c3b

File size: 38

Using LFN: lfn:/grid/ops/testd_rdiez

Using GUID: guid:c2a668a9-6805-44a9-a830-2f75f7530ec4

Registering LFN: /grid/ops/testd_rdiez (c2a668a9-6805-44a9-a830-2f75f7530ec4)

Registering SURL:

srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file825d9881-1923-4601-aeb9-7a3881b98c3b (c2a668a9-6805-44a9-a830-2f75f7530ec4)

guid:c2a668a9-6805-44a9-a830-2f75f7530ec4

}}}

{{{

[rdiez@test13 ~]\$ lcg-ls -v

srm://grid002.ft.uam.es:8443/pnfs/ft.uam.es/data/

SE type: SRMv2

/pnfs/ft.uam.es/data/temp

/pnfs/ft.uam.es/data/users

/pnfs/ft.uam.es/data/atlas

/pnfs/ft.uam.es/data/ops

/pnfs/ft.uam.es/data/dteam

/pnfs/ft.uam.es/data/ops.vo.ibergrid.eu

/pnfs/ft.uam.es/data/phys.vo.ibergrid.eu

}}}

{{{

[rdiez@test13 ~]\$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l

lfn:/grid/ops/filefgtest3 -d se2.egi.cesga.es

Using grid catalog type: lfc

Using grid catalog : test09.egi.cesga.es

Checksum type: None

SE type: SRMv2

Destination SURL :

srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file6abc5392-e0e3-4681-974a-3e93c7d54ad1

Source SRM Request Token: 665bffff-8d9c-4779-962b-f807fa4e78d3

Source URL: file:/home/rdiez/hola.sh

File size: 38

VO name: ops

Destination specified: se2.egi.cesga.es

Destination URL for copy:

gsiftp://se2.egi.cesga.es/se2.egi.cesga.es:/mnt/xen01/ops/2014-10-17/file6abc5392-e0e3-4681-974a-3e93c7d54ad1.16681256.0

streams: 1

| | | |
|----------|-----------------|------------------|
| 0 bytes | 0.00 KB/sec avg | 0.00 KB/sec inst |
| 38 bytes | 0.36 KB/sec avg | 0.36 KB/sec inst |

```
Transfer took 1010 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file6abc5392-e0e3-4681-974a-3e93c7d54ad1
File size: 38
Using LFN: lfn:/grid/ops/filefgtest3
Using GUID: guid:43474f98-7a23-4a52-87d5-82539f7e0b64
Registering LFN: /grid/ops/filefgtest3 (43474f98-7a23-4a52-87d5-82539f7e0b64)
Registering SURL:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file6abc5392-e0e3-4681-974a-3e93c7d54ad1 (43474f98-7a23-4a52-87d5-82539f7e0b64)
guid:43474f98-7a23-4a52-87d5-82539f7e0b64
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest3
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file6abc5392-e0e3-4681-974a-3e93c7d54ad1
```

```
[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/filefgtest3
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest3
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/filefgtest3: No such file or directory
lcg_lr: No such file or directory
```

```
[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/testd_rdiez
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/testd_rdiez
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/testd_rdiez: No such file or directory
lcg_lr: No such file or directory
}}}
```

* Checking the VOMS PROXY INFO (OK)

```
{{{
[rdiez@test13 ~]$ voms-proxy-info --all
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=387258055
issuer    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
identity  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type      : RFC3820 compliant impersonation proxy
strength  : 1024
path      : /tmp/x509up_u514
timeleft  : 11:44:42
key usage : Digital Signature, Key Encipherment
=== VO ops extension information ===
VO        : ops
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
issuer    : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute : /ops/Role=lcgadmin/Capability=NULL
attribute : /ops/NGI/Role=NULL/Capability=NULL
attribute : /ops/NGI/Portugal/Role=NULL/Capability=NULL
```



```
attribute : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute : /ops/Role=NULL/Capability=NULL
timeleft  : 11:44:42
uri       : lcg-voms.cern.ch:15009
}}}
```

```
{{{
World writable files (OK)
```

An easy way to find world-writable files is using the find command:

```
find / -type f -perm -002 -exec ls -l {} \;
```

For finding world-writable files in the packages contents:

```
rpm -qalv | egrep "^[-d]([-r][-w][-xs]){2}[-r]w"
drwxrwxrwt  2 root  root          0 Jul 20  2011
/tmp
drwxrwxrwt  2 root  root          0 Jul 20  2011
/var/tmp
}}}
```

* gfal2 stuff:

```
{{{
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es
```

```
[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 ~]$ lfc-ls /grid/ops
filefgtest
filefgtest150714_v2
```

```
[rdiez@test13 ~]$ dpm-ls /dpm/egi.cesga.es/home
cesga
dteam
iber.vo.ibergrid.eu
ops
ops.vo.ibergrid.eu
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1  2  2   Jul 15 13:29 266  cattest_150714      None
-rw-rw-r-- 1  2  2   Oct 17 08:53 38   cattest_171014    None
drwxrwxr-x 1  2  2   Sep 18 03:17 0.0  generated        None
-rw-rw-r-- 1  2  2   May 16 2013 266  my_test          None
drwxrwxr-x 1  2  2   May 16 2013 0.0  mytest           None
-rw-rw-r-- 1  2  2   Oct 17 08:05 38   test171014       None
-rw-rw-r-- 1  2  2   Jul  2 10:25 20   testfile-put-1404293132-
52addc5eb585.txt  None
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
drwxrwxr-x 1  2  2   Oct 22 2009 0.0  alice            None
drwxrwxr-x 1  2  2   Jun 24 2010 0.0  atlas            None
drwxrwxr-x 1  2  2   Mar  5 2012 0.0  auger            None
```

```
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 bing.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 17 09:33 0.0 biomed None
drwxrwxr-x 1 2 2 Oct 26 2011 0.0 cesga None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 chem.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 26 2009 0.0 cms None
drwxrwxr-x 1 2 2 Feb 8 2012 0.0 compchem None
drwxrwxr-x 1 2 2 Jun 1 2008 0.0 diligent None
[.....]
```

```
[rdiez@test13 ~]$ gfal-ls
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
alice
atlas
auger
bing.vo.ibergrid.eu
biomed
cesga
chem.vo.ibergrid.eu
cms
compchem
diligent
[.....]
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-copy
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/testfile-put-
1401882691-cf0388798004.txt file:/home/rdiez/testoct2
Copying 1 [DONE] after 1s
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testfile-put-1404293132-
52addc5eb585.txt file:/home/rdiez/testoct3
Copying 1 [DONE] after 1s
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testfile-put-1404293132-
52addc5eb585.txt file:/home/rdiez/testjul4
Copying 1 [DONE] after 1s
}}}
```

```
{{{
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest2 -d test08.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
17/file75a2bb1f-0f85-446a-8366-c7b486f219f3
Source SRM Request Token: c74cf764-b672-4575-a328-9c68829481b4
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: test08.egi.cesga.es
```

Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-17/file75a2bb1f-0f85-446a-8366-c7b486f219f3.19452.0

streams: 1

| | | |
|---------|-----------------|------------------|
| 0 bytes | 0.00 KB/sec avg | 0.00 KB/sec inst |
| 0 bytes | 0.00 KB/sec avg | 0.00 KB/sec inst |

Transfer took 1000 ms

Using grid catalog type: lfc

Using grid catalog : test09.egi.cesga.es

Site URL to be registered:

srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file75a2bb1f-0f85-446a-8366-c7b486f219f3

File size: 38

Using LFN: lfn:/grid/ops/filefgtest2

Using GUID: guid:aa11af86-1cab-432d-acb9-f8a928752594

Registering LFN: /grid/ops/filefgtest2 (aa11af86-1cab-432d-acb9-f8a928752594)

Registering SURL:

srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file75a2bb1f-0f85-446a-8366-c7b486f219f3 (aa11af86-1cab-432d-acb9-f8a928752594)

guid:aa11af86-1cab-432d-acb9-f8a928752594

}}}

{{{

[rdiez@test13 ~]\$ gfal-copy

srm://test08.egi.cesga.es:8446/srm/managerv2?

SFN=/dpm/egi.cesga.es/home/ops/test171014

lfc://test09.egi.cesga.es/grid/ops/filefgtest2

Copying 1 [FAILED] after 0s

gfal-copy: error: Invalid argument

[rdiez@test13 ~]\$ gfal-copy

srm://test08.egi.cesga.es:8446/srm/managerv2?

SFN=/dpm/egi.cesga.es/home/ops/test171014 lfn://grid/ops/filefgtest2

Copying 1 [FAILED] after 0s

gfal-copy: error: Invalid argument

}}}

{{{

[rdiez@test13 ~]\$ gfal-ls lfn:/grid/ops/

filefgtest

filefgtest150714_v2

filefgtest2

[rdiez@test13 ~]\$ gfal-ls -Hl

srm://test08.egi.cesga.es:8446/srm/managerv2?

SFN=/dpm/egi.cesga.es/home/ops/

| | | | | | | | |
|------------|---|---|---|--------------|-----|----------------|------|
| -rw-rw-r-- | 1 | 2 | 2 | Jul 15 13:29 | 266 | cattest_150714 | None |
|------------|---|---|---|--------------|-----|----------------|------|

| | | | | | | | |
|------------|---|---|---|--------------|----|----------------|------|
| -rw-rw-r-- | 1 | 2 | 2 | Oct 17 08:53 | 38 | cattest_171014 | None |
|------------|---|---|---|--------------|----|----------------|------|

| | | | | | | | |
|------------|---|---|---|--------------|-----|-----------|------|
| drwxrwxr-x | 1 | 2 | 2 | Sep 18 03:17 | 0.0 | generated | None |
|------------|---|---|---|--------------|-----|-----------|------|

| | | | | | | | |
|------------|---|---|---|-------------|-----|---------|------|
| -rw-rw-r-- | 1 | 2 | 2 | May 16 2013 | 266 | my_test | None |
|------------|---|---|---|-------------|-----|---------|------|

| | | | | | | | |
|------------|---|---|---|-------------|-----|--------|------|
| drwxrwxr-x | 1 | 2 | 2 | May 16 2013 | 0.0 | mytest | None |
|------------|---|---|---|-------------|-----|--------|------|

| | | | | | | | |
|------------|---|---|---|--------------|----|------------|------|
| -rw-rw-r-- | 1 | 2 | 2 | Oct 17 08:05 | 38 | test171014 | None |
|------------|---|---|---|--------------|----|------------|------|

| | | | | | | | |
|------------|---|---|---|-------------|----|--------------------------|--|
| -rw-rw-r-- | 1 | 2 | 2 | Jul 2 10:25 | 20 | testfile-put-1404293132- | |
|------------|---|---|---|-------------|----|--------------------------|--|

| | | | | | | | |
|------------------|--|--|--|--|--|------|--|
| 52addc5eb585.txt | | | | | | None | |
|------------------|--|--|--|--|--|------|--|

}}}

{{{

```
[rdiez@test13 ~]$ gfal-rm
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test171014
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
drwxrwxr-x 1 2 2 May 16 2013 0.0 mytest None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
```

```
[rdiez@test13 ~]$ gfal-rm -r
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/mytest
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
```

```
}}}
```

```
{
{
[rdiez@test13 ~]$ cat hola.sh |gfal-save
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014b
```

```
[rdiez@test13 ~]$ gfal-cat
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014b
#!/bin/bash
```

```
##sleep 60
hostname
date
}}
```

```
{
{
[rdiez@test13 ~]$ gfal-sum
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014b MD5
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014b
e8a436b9f55861dce93c946464a44d63
```

```
}}
```

```
{
{
[rdiez@test13 ~]$ gfal-xattr
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_171014b
```

```
user.replicas = rfiio://test08.egi.cesga.es//storage/ops/2014-10-17/cattest_171014b.19453.0
user.status = ONLINE
}}}
```

* Information about how to use gfaLFS is provided in the following link, <https://svnweb.cern.ch/trac/lcgutil/wiki/gfalFS>
(!) Before starting, must be executed as root user the following command:

```
{
[rdiez@test13 ~]# groups rdiez
rdiez : rdiez
[rdiez@test13 ~]# usermod -a -G fuse rdiez
```

```
[rdiez@test13 ~]# groups rdiez
rdiez : rdiez fuse
}}
```

```
{
```

* It is necessary to configure iptable on LFC or SE before trying gfaLFS and in order to give mount permissions:

```
{
[rdiez@test13 ~]$ mkdir mount_lfc_test09

[rdiez@test13 ~]$ gfaLFS -v /home/rdiez/mount_lfc_test09
lfc://test09.egi.cesga.es/grid/ops/
verbose mode....
```

```
[rdiez@test13 ~]$ ls mount_lfc_test09/
filefgtest filefgtest150714_v2 filefgtest2
```

```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
gfaLFS on /home/rdiez/mount_lfc_test09 type fuse.gfaLFS
(rw,nosuid,nodev,user=rdiez)
```

```
[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/filefgtest2
#!/bin/bash
```

```
##sleep 60
hostname
date
```

```
[rdiez@test13 ~]$ gfaLFS_umount /home/rdiez/mount_lfc_test09/
```

```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
```

```
}}
```

```
{
[rdiez@test13 ~]$ gfaLFS -v /home/rdiez/mount_lfc_test09
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
verbose mode....
```

```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
gfaLFS on /home/rdiez/mount_lfc_test09 type fuse.gfaLFS
(rw,nosuid,nodev,user=rdiez)
```

```
[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/  
cattest_150714 cattest_171014 cattest_171014b generated my_test  
testfile-put-1404293132-52addc5eb585.txt
```

```
[rdiez@test13 ~]$ cp hola.sh /home/rdiez/mount_lfc_test09/
```

```
[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/hola.sh  
#!/bin/bash
```

```
##sleep 60  
hostname  
date
```

```
[rdiez@test13 ~]$ rm /home/rdiez/mount_lfc_test09/hola.sh
```

```
[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/hola.sh  
ls: cannot access /home/rdiez/mount_lfc_test09/hola.sh: No such file  
or directory
```

```
[rdiez@test13 ~]$ gfalFS_umount /home/rdiez/mount_lfc_test09
```

```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
```

```
}}}
```

```
== Verification of emi-ui.s15.x86_64-3.1.0 ==
```

```
=== Ticket assigned ===
```

```
* [https://rt.egi.eu/rt/Ticket/Display.html?id=7573]
```

```
=== Repositories ===
```

```
(!) Verifier must install a new repo for each product, this  
information is available at RT ticket field:
```

```
{{{  
cat EMI.emi-ui.s15.x86_64.repo  
# EGI Software Repository - REPO META  
(releaseId,repositoryId,repofileId) - (7573,1685,1615)
```

```
[EMI.emi-ui.s15.x86_64]  
name=EMI.emi-ui.s15.x86_64  
baseurl=http://admin-repo.egi.eu/sw/unverified/umd-3.emi.emi-  
ui.s15.x86_64/3/1/0/  
enabled=1  
protect=1  
priority=1  
gpgcheck=1  
gpgkey=http://emisoft.web.cern.ch/emisoft/dist/EMI/3/RPM-GPG-KEY-emi  
}}}
```

```
(!) Only to avoid possible conflicts:
```

```
{{{
```

```
}}}
```

```
{{{
yum clean all; yum update
}}}
```

=== Updating (OK) ===

```
{{{
```

```
=====
=====
=====
```

```
=$
```

| Package | Version | Size | Repository | Arch |
|---|---------------------|-------|-------------|--------|
| ca-policy-egi-core | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.7 k | | |
| replacing ca_SWITCH-QuoVadis-Grid-ICA.noarch 1.58-1 | | | | |
| ca_QuoVadis-Grid-ICA | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.2 k | | |
| replacing ca_SWITCH-QuoVadis-Grid-ICA.noarch 1.58-1 | | | | |
| ca_policy_igtft-classic | 1.59-1 | | EGI- | noarch |
| trustanchors | | 6.5 k | | |
| replacing ca_SWITCH-QuoVadis-Grid-ICA.noarch 1.58-1 | | | | |
| kernel | 2.6.18-371.12.1.el5 | | | x86_64 |
| | 22 M | | sl-security | |
| Updating: | | | | |
| CGSI-gSOAP | 1.3.6-5.el5 | | EMI.emi- | i386 |
| ui.sl5.x86_64 | | 75 k | | |
| CGSI-gSOAP | 1.3.6-5.el5 | | EMI.emi- | x86_64 |
| ui.sl5.x86_64 | | 75 k | | |
| bash | 3.2-33.el5_11.4 | | | x86_64 |
| | 1.8 M | | sl-security | |
| ca_AAACertificateServices | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.7 k | | |
| ca_AEGIS | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.3 k | | |
| ca_ANSPGrid | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.5 k | | |
| ca_ASGCCA-2007 | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.3 k | | |

```
=$
```

```
Installing:
```

| | | | | |
|---|--------|-------|------|--------|
| ca-policy-egi-core | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.7 k | | |
| replacing ca_SWITCH-QuoVadis-Grid-ICA.noarch 1.58-1 | | | | |

| | | | | |
|---|--------|-------|------|--------|
| ca_QuoVadis-Grid-ICA | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.2 k | | |
| replacing ca_SWITCH-QuoVadis-Grid-ICA.noarch 1.58-1 | | | | |

| | | | | |
|---|--------|-------|------|--------|
| ca_policy_igtft-classic | 1.59-1 | | EGI- | noarch |
| trustanchors | | 6.5 k | | |
| replacing ca_SWITCH-QuoVadis-Grid-ICA.noarch 1.58-1 | | | | |

| | | | | |
|--------|---------------------|--|-------------|--------|
| kernel | 2.6.18-371.12.1.el5 | | | x86_64 |
| | 22 M | | sl-security | |

```
Updating:
```

| | | | | |
|---------------|-------------|------|----------|------|
| CGSI-gSOAP | 1.3.6-5.el5 | | EMI.emi- | i386 |
| ui.sl5.x86_64 | | 75 k | | |

| | | | | |
|---------------|-------------|------|----------|--------|
| CGSI-gSOAP | 1.3.6-5.el5 | | EMI.emi- | x86_64 |
| ui.sl5.x86_64 | | 75 k | | |

| | | | | |
|------|-----------------|--|-------------|--------|
| bash | 3.2-33.el5_11.4 | | | x86_64 |
| | 1.8 M | | sl-security | |

| | | | | |
|---------------------------|--------|-------|------|--------|
| ca_AAACertificateServices | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.7 k | | |

| | | | | |
|--------------|--------|-------|------|--------|
| ca_AEGIS | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.3 k | | |

| | | | | |
|--------------|--------|-------|------|--------|
| ca_ANSPGrid | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.5 k | | |

| | | | | |
|----------------|--------|-------|------|--------|
| ca_ASGCCA-2007 | 1.59-1 | | EGI- | noarch |
| trustanchors | | 5.3 k | | |

| | | | |
|------------------------------|-------|------|--------|
| ca_AddTrust-External-CA-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.9 k | | |
| ca_ArmeSFo | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.0 k | | |
| ca_AustrianGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_BEGrid2008 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_BG-ACAD-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_BYGCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_BalticGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_BrGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_CALG | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_CERN-GridCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 6.0 k | | |
| ca_CERN-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_CERN-Root-2 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.9 k | | |
| ca_CERN-TCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_CESNET-CA-3 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 4.8 k | | |
| ca_CESNET-CA-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_CNIC | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_CNRS2 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.0 k | | |
| ca_CNRS2-Grid-FR | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_CNRS2-Projets | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_COMODO-RSA-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |

| | | | |
|----------------------------------|-------|------|--------|
| ca_CyGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_DFN-GridGermany-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_DFN-SLCS | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_DZeScience | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 7.0 k | | |
| ca_DigiCertAssuredIDRootCA-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_DigiCertGridCA-1-Classic | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |
| ca_DigiCertGridCA-1G2-Classic | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |
| ca_DigiCertGridRootCA-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_DigiCertGridTrustCA-Classic | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 6.0 k | | |
| ca_DigiCertGridTrustCAG2-Classic | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.8 k | | |
| ca_EG-GRID | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 6.8 k | | |
| ca_FNAL-SLCS | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_GermanGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_GridCanada | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_HIAST | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 6.7 k | | |
| ca_HKU | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.0 k | | |
| ca_HellasGrid-CA-2006 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_HellasGrid-Root | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_IGCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_IHEP-2013 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |

| | | | |
|----------------------------|-------|------|--------|
| ca_INFN-CA-2006 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_IRAN-GRID | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_InCommon-IGTF-Server-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_KEK | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_KISTI-2007 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_LACGridCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_LIPCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.0 k | | |
| ca_MARGI | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_MD-Grid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_MREN-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_MYIFAM | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_MaGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_NAREGI | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_NCHC | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_NCSA-mics | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_NCSA-slcs | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_NCSA-slcs-2013 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_NCSA-tfca-2013 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_NECTEC | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_NERSC-SLCS | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |

| | | | |
|-----------------------------|-------|------|--------|
| ca_NICS-MyProxy | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_NIIF | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_NIKHEF | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_NorduGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_PK-Grid-2007 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |
| ca_PSC-Myproxy-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_PolishGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_QuoVadis-Root-CA1 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |
| ca_RDIG | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.6 k | | |
| ca_REUNA-ca | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_RomanianGRID | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_SDG | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_SRCE | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 4.9 k | | |
| ca_SiGNET-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_SlovakGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_TERENA-eScience-SSL-CA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |
| ca_TERENAEsciencePersonalCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_TRGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| ca_UGRID | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_UKeScienceCA-2A | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 4.9 k | | |

| | | | |
|---------------------------|-------|------|---------------|
| ca_UKeScienceCA-2B | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 4.9 k | | |
| ca_UKeScienceRoot-2007 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_ULAGrid-CA-2008 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.4 k | | |
| ca_UNAMgrid-ca | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_UNLPGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_UTN-USERFirst-Hardware | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.7 k | | |
| ca_UTNAAAClient | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_UniandesCA | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.3 k | | |
| ca_cilogon-silver | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.1 k | | |
| ca_pkIRISGrid | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.5 k | | |
| ca_policy_igt-f-mics | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 2.8 k | | |
| ca_policy_igt-f-slcs | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 2.9 k | | |
| ca_seegrid-ca-2013 | | | noarch |
| 1.59-1 | | EGI- | |
| trustanchors | 5.2 k | | |
| can1-c | | | x86_64 |
| 2.1.5-1.e15 | | | UMD-3-updates |
| 70 k | | | |
| davix-libs | | | x86_64 |
| 0.3.6-2.e15 | | | EMI.emi- |
| ui.sl5.x86_64 | 311 k | | |
| emi-ui | | | x86_64 |
| 3.1.0-1.e15 | | | EMI.emi- |
| ui.sl5.x86_64 | 5.0 k | | |
| gfal2-all | | | x86_64 |
| 2.6.8-3.e15 | | | EMI.emi- |
| ui.sl5.x86_64 | 8.9 k | | |
| gfal2-core | | | x86_64 |
| 2.6.8-3.e15 | | | EMI.emi- |
| ui.sl5.x86_64 | 55 k | | |
| gfal2-devel | | | x86_64 |
| 2.6.8-3.e15 | | | EMI.emi- |
| ui.sl5.x86_64 | 36 k | | |
| gfal2-doc | | | x86_64 |
| 2.6.8-3.e15 | | | EMI.emi- |
| ui.sl5.x86_64 | 126 k | | |

| | | |
|--------------------------------|-------|---------------|
| gfal2-plugin-dcap | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 14 k | |
| gfal2-plugin-gridftp | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 75 k | |
| gfal2-plugin-http | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 25 k | |
| gfal2-plugin-lfc | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 27 k | |
| gfal2-plugin-rfio | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 14 k | |
| gfal2-plugin-srm | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 43 k | |
| gfal2-python | | x86_64 |
| 1.5.0-1.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 133 k | |
| gfal2-transfer | | x86_64 |
| 2.6.8-3.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 20 k | |
| glibc | | i686 |
| 2.5-118.el5_10.3 | | sl-security |
| 5.4 M | | |
| glibc | | x86_64 |
| 2.5-118.el5_10.3 | | sl-security |
| 4.8 M | | |
| glibc-common | | x86_64 |
| 2.5-118.el5_10.3 | | sl-security |
| 16 M | | |
| glite-jobid-api-c | | x86_64 |
| 2.2.13-1.el5 | | UMD-3-updates |
| 13 k | | |
| glite-lb-client | | x86_64 |
| 6.0.10-1.el5 | | UMD-3-updates |
| 217 k | | |
| glite-lb-client-progs | | x86_64 |
| 6.0.10-1.el5 | | UMD-3-updates |
| 115 k | | |
| glite-lb-common | | x86_64 |
| 9.1.1-1.el5 | | UMD-3-updates |
| 122 k | | |
| glite-lbjp-common-gsoap-plugin | | x86_64 |
| 3.2.12-1.el5 | | UMD-3-updates |
| 18 k | | |
| glite-lbjp-common-gss | | x86_64 |
| 3.2.16-1.el5 | | UMD-3-updates |
| 24 k | | |
| glite-lbjp-common-trio | | x86_64 |
| 2.3.13-1.el5 | | UMD-3-updates |
| 32 k | | |
| gridsite-commands | | x86_64 |
| 2.2.5-1.el5 | | UMD-3-updates |
| 29 k | | |
| gridsite-libs | | x86_64 |
| 2.2.5-1.el5 | | UMD-3-updates |
| 133 k | | |

| | | |
|------------------------------|-------|---------------|
| java-1.6.0-openjdk | | x86_64 |
| 1:1.6.0.0-6.1.13.4.el5_10 | | sl-security |
| 43 M | | |
| krb5-libs | | i386 |
| 1.6.1-80.el5_11 | | sl-security |
| 670 k | | |
| krb5-libs | | x86_64 |
| 1.6.1-80.el5_11 | | sl-security |
| 682 k | | |
| krb5-workstation | | x86_64 |
| 1.6.1-80.el5_11 | | sl-security |
| 919 k | | |
| nscd | | x86_64 |
| 2.5-118.el5_10.3 | | sl-security |
| 177 k | | |
| nspr | | i386 |
| 4.10.6-1.el5_10 | | sl-security |
| 124 k | | |
| nspr | | x86_64 |
| 4.10.6-1.el5_10 | | sl-security |
| 123 k | | |
| nss | | i386 |
| 3.16.1-4.el5_11 | | sl-security |
| 1.2 M | | |
| nss | | x86_64 |
| 3.16.1-4.el5_11 | | sl-security |
| 1.3 M | | |
| nss-tools | | x86_64 |
| 3.16.1-4.el5_11 | | sl-security |
| 758 k | | |
| openssl | | i686 |
| 0.9.8e-31.el5_11 | | sl-security |
| 1.5 M | | |
| openssl | | x86_64 |
| 0.9.8e-31.el5_11 | | sl-security |
| 1.5 M | | |
| procmail | | x86_64 |
| 3.22-17.1.2 | | sl-security |
| 171 k | | |
| srpm-ifce | | i386 |
| 1.20.1-1.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 211 k | |
| srpm-ifce | | x86_64 |
| 1.20.1-1.el5 | | EMI.emi- |
| ui.sl5.x86_64 | 199 k | |
| Removing: | | |
| kernel | | x86_64 |
| 2.6.18-348.4.1.el5 | | installed |
| 99 M | | |
| Installing for dependencies: | | |
| boost141-system | | x86_64 |
| 1.41.0-5.el5 | | epel |
| 24 k | | |
| boost141-thread | | x86_64 |
| 1.41.0-4.el5 | | UMD-3-updates |
| 45 k | | |
| ca_HPCI | | noarch |
| 1.59-1 | | EGI- |
| trustanchors | 5.5 k | |

| | | |
|-------------------|------|------------|
| gfal2-util | | noarch |
| 1.0.0-1.e15 | | EMI.emi- |
| ui.sl5.x86_64 | 37 k | |
| ginfo | | noarch |
| 1.0.2-1.e15 | | epel |
| 8.8 k | | |
| python-argparse | | noarch |
| 1.2.1-2.e15 | | epel |
| 73 k | | |
| python-ldap | | x86_64 |
| 2.2.0-2.1 | | sl-base |
| 123 k | | |
| python-simplejson | | x86_64 |
| 2.0.9-8.e15 | | UMD-3-base |
| 141 k | | |

Transaction Summary

```
=====
=====
=====
==
```

}}}

==== Configuring with YAIM (OK) =====

```
{{{
/opt/glite/yaim/bin/yaim -c -s
/root/configuration_templates/EMI/UI/site-info.def -n UI
}}}
```

==== Testing =====

```
{{{
* Submitting a MPI and a normal job (OK)
{{{
[rdiez@test13 ~]$ voms-proxy-init --voms ops:/ops/Role=lcgadmin
Enter GRID pass phrase for this identity:
Contacting lcg-voms.cern.ch:15009 [/DC=ch/DC=cern/OU=computers/CN=lcg-
voms.cern.ch] "ops"...
Remote VOMS server contacted succesfully.
```

Created proxy in /tmp/x509up_u514.

```
Your proxy is valid until Sat Oct 18 01:57:49 CEST 2014
[rdiez@test13 ~]$ voms-proxy-info
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=proxy
issuer    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
identity  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type      : full legacy globus proxy
strength  : 1024
path      : /tmp/x509up_u514
timeleft  : 11:59:50
key usage : Digital Signature, Key Encipherment
```

```
[rdiez@test13 ~]$ glite-ce-delegate-proxy -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez] succesfully delegated to endpoint
[test06.egi.cesga.es]
```

```
[rdiez@test13 ~]$ glite-ce-proxy-renew -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez] succesfully renewed to endpoint
[test06.egi.cesga.es]
}}}
```

```
{{{
[rdiez@test13 ~]$ glite-ce-job-submit -D rdiez -r
test06.egi.cesga.es:8443/cream-pbs-GRID_ops check_bug.jdl
https://test06.egi.cesga.es:8443/CREAM152133661
```

```
[rdiez@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM152133661
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM152133661]
        Status      = [DONE-OK]
        ExitCode     = [0]
```

```
}}}
```

```
{{{
[rdiez@test13 ~]$ cd mpi_job_grid_verification/
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-submit -D rdiez
-r test06.egi.cesga.es:8443/cream-pbs-GRID_ops job1.jdl
https://test06.egi.cesga.es:8443/CREAM153383112
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM153383112
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM153383112]
        Status      = [DONE-OK]
        ExitCode     = [1]
```

```
}}}
```

* Trying to copy and delete a file on the SE (OK)

```
{{{
```

```
[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es
```

```
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/testc_rdiez -d test08.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
17/file41562c8c-666e-409b-aea1-64ef4e66f905
Source SRM Request Token: 9ac81710-a38a-41bd-b86d-72236b3a8032
Source URL: file:/home/rdiez/hola.sh
File size: 38
```


VO name: ops
Destination specified: test08.egi.cesga.es
Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-17/file41562c8c-666e-409b-aea1-64ef4e66f905.19498.0
streams: 1
0 bytes 0.00 KB/sec avg 0.00 KB/sec inst
0 bytes 0.00 KB/sec avg 0.00 KB/sec inst

Transfer took 1010 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file41562c8c-666e-409b-aea1-64ef4e66f905
File size: 38
Using LFN: lfn:/grid/ops/testc_rdiez
Using GUID: guid:11292094-21d8-46d4-856f-99b99ec2db74
Registering LFN: /grid/ops/testc_rdiez (11292094-21d8-46d4-856f-99b99ec2db74)
Registering SURL:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file41562c8c-666e-409b-aea1-64ef4e66f905 (11292094-21d8-46d4-856f-99b99ec2db74)
guid:11292094-21d8-46d4-856f-99b99ec2db74
}}}

{{{
[rdiez@test13 ~]\$ lcg-ls -v
srm://grid002.ft.uam.es:8443/pnfs/ft.uam.es/data/
SE type: SRMv2
/pnfs/ft.uam.es/data/temp
/pnfs/ft.uam.es/data/users
/pnfs/ft.uam.es/data/atlas
/pnfs/ft.uam.es/data/ops
/pnfs/ft.uam.es/data/dteam
/pnfs/ft.uam.es/data/ops.vo.ibergrid.eu
/pnfs/ft.uam.es/data/phys.vo.ibergrid.eu
}}}

{{{
[rdiez@test13 ~]\$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest3 -d se2.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file29259d61-1e75-4186-9aa0-f7a83210d331
Source SRM Request Token: 93eaa787-4936-471e-9c04-c1e67145bc62
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: se2.egi.cesga.es
Destination URL for copy:
gsiftp://se2.egi.cesga.es/se2.egi.cesga.es:/mnt/xen01/ops/2014-10-17/file29259d61-1e75-4186-9aa0-f7a83210d331.16683361.0
streams: 1

```
0 bytes      0.00 KB/sec avg      0.00 KB/sec inst
38 bytes     0.33 KB/sec avg      0.33 KB/sec inst
```

```
Transfer took 1000 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file29259d61-1e75-4186-9aa0-f7a83210d331
File size: 38
Using LFN: lfn:/grid/ops/filefgtest3
Using GUID: guid:9b808219-13b7-48e1-b017-5c09c9690dac
Registering LFN: /grid/ops/filefgtest3 (9b808219-13b7-48e1-b017-5c09c9690dac)
Registering SURL:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file29259d61-1e75-4186-9aa0-f7a83210d331 (9b808219-13b7-48e1-b017-5c09c9690dac)
guid:9b808219-13b7-48e1-b017-5c09c9690dac
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest3
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-17/file29259d61-1e75-4186-9aa0-f7a83210d331
```

```
[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/filefgtest3
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest3
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/filefgtest3: No such file or directory
lcg_lr: No such file or directory
```

```
[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/testc_rdiez
```

```
[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/testc_rdiez
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/testc_rdiez: No such file or directory
lcg_lr: No such file or directory
```

```
}}}
```

```
* Checking the VOMS PROXY INFO (OK)
```

```
{{{
```

```
[rdiez@test13 ~]$ voms-proxy-info --all
subject      : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser   managed by Esteban Freire Garcia/CN=proxy
issuer       : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser   managed by Esteban Freire Garcia
identity     : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser   managed by Esteban Freire Garcia
type         : full legacy globus proxy
strength     : 1024
path         : /tmp/x509up_u514
timeleft     : 11:38:36
key usage    : Digital Signature, Key Encipherment
=== VO ops extension information ===
VO           : ops
subject      : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser   managed by Esteban Freire Garcia
```

```
issuer      : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute   : /ops/Role=lcgadmin/Capability=NULL
attribute   : /ops/NGI/Role=NULL/Capability=NULL
attribute   : /ops/NGI/Portugal/Role=NULL/Capability=NULL
attribute   : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute   : /ops/Role=NULL/Capability=NULL
timeleft    : 11:38:36
uri         : lcg-voms.cern.ch:15009
}}}
```

```
{{{
World writable files (OK)
```

An easy way to find world-writable files is using the find command:

```
find / -type f -perm -002 -exec ls -l {} \;
```

For finding world-writable files in the packages contents:

```
rpm -qalv | egrep "^[-d]([-r][-w][-xs]){2}[-r]w"
drwxrwxrwt  2 root    root          0 oct  7  2009 /tmp
drwxrwxrwt  2 root    root          0 oct  7  2009 /var/tmp
drwxrwxrwt  2 root    root          0 jun 17  2009
/var/spool/vbox
drwxrwxrwt  2 root    root          0 oct  1  2013
/var/cache/coolkey
-rw-rw-rw-  1 root    root          0 ago 29 22:15
/var/run/nscd/socket
drwxrwxrwt  2 root    root          0 oct  1  2013
/var/cache/coolkey
}}}
```

* gfal2 stuff:

```
{{{
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es
```

```
[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 ~]$ lfc-ls /grid/ops
filefgtest
filefgtest150714_v2
filefgtest2
```

```
[rdiez@test13 ~]$ dpns-ls /dpm/egi.cesga.es/home
cesga
dteam
iber.vo.ibergrid.eu
ops
ops.vo.ibergrid.eu
```

```
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1  2  2   Jul 15 13:29 266  cattest_150714      None
-rw-rw-r-- 1  2  2   Oct 17 08:53 38   cattest_171014      None
```

```
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
drwxrwxr-x 1 2 2 Sep 18 03:17 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
drwxrwxr-x 1 2 2 Oct 22 2009 0.0 alice None
drwxrwxr-x 1 2 2 Jun 24 2010 0.0 atlas None
drwxrwxr-x 1 2 2 Mar 5 2012 0.0 auger None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 bing.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 17 13:32 0.0 biomed None
drwxrwxr-x 1 2 2 Oct 26 2011 0.0 cesga None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 chem.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 26 2009 0.0 cms None
[.....]
```

```
[rdiez@test13 ~]$ gfal-ls
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
alice
atlas
auger
bing.vo.ibergrid.eu
biomed
cesga
chem.vo.ibergrid.eu
cms
compchem
diligent
dteam
earth.vo.ibergrid.eu
eng.vo.ibergrid.eu
fusion
hpc.vo.ibergrid.eu
iber.vo.ibergrid.eu
ibrain
[.....]
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-copy
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/testfile-put-
1401882691-cf0388798004.txt file:/home/rdiez/test141022
Copying 1 [DONE] after 24s
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testfile-put-1404293132-
52addc5eb585.txt file:/home/rdiez/test141022b
Copying 1 [DONE] after 33s
```

```
[rdiez@test13 ~]$ gfal-copy file:/home/rdiez/hola.sh
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test141022c
Copying 1 [DONE] after 31s
}}}
```

```
{{{
```

```
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest141022 -d test08.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
22/filefe356719-8d70-4aef-b585-9e0e04854b3f
Source SRM Request Token: 8533d7cd-02c7-40a1-a4d9-f225098e3613
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: test08.egi.cesga.es
Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-
22/filefe356719-8d70-4aef-b585-9e0e04854b3f.20107.0
# streams: 1
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst
          38 bytes          0.25 KB/sec avg          0.25 KB/sec inst
```

```
Transfer took 1020 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
22/filefe356719-8d70-4aef-b585-9e0e04854b3f
File size: 38
Using LFN: lfn:/grid/ops/filefgtest141022
Using GUID: guid:ea24e5c0-51d9-454f-aff7-a6681801c0a3
Registering LFN: /grid/ops/filefgtest141022 (ea24e5c0-51d9-454f-aff7-
a6681801c0a3)
Registering SURL:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
22/filefe356719-8d70-4aef-b585-9e0e04854b3f (ea24e5c0-51d9-454f-aff7-
a6681801c0a3)
guid:ea24e5c0-51d9-454f-aff7-a6681801c0a3
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test141022
lfc://test09.egi.cesga.es/grid/ops/filefgtest141022
Copying 1 [FAILED] after 0s
gfal-copy: error: Invalid argument
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test141022
lfn://grid/ops/filefgtest141022
Copying 1 [FAILED] after 0s
gfal-copy: error: Invalid argument
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-ls lfn:/grid/ops/
filefgtest
filefgtest141022
filefgtest150714_v2
```

filefgtest2

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 22 10:05 38 test141022c None
-rw-rw-r-- 1 2 2 Oct 20 08:54 38 test201014 None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-
63e4ec032f50.txt None
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-rm
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test141022c
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 08:54 38 test201014 None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-
63e4ec032f50.txt None
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-mkdir
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdir141022
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
```

```
-rw-rw-r-- 1 2 2 Oct 20 08:54 38 test201014 None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
drwxrwxr-x 1 2 2 Oct 22 10:14 0.0 testdir141022 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-
63e4ec032f50.txt None
```

```
[rdiez@test13 ~]$ gfal-rm -r
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdir141022
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 08:54 38 test201014 None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-
63e4ec032f50.txt None
}}}
```

```
{{{
[rdiez@test13 ~]$ cat hola.sh |gfal-save
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141022
```

```
[rdiez@test13 ~]$ gfal-cat
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141022
#!/bin/bash
```

```
##sleep 60
hostname
date
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-ls
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdelme3
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdelme3
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-xattr
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdelme3
```

```
user.replicas = rfiio://test08.egi.cesga.es//storage/ops/2014-10-20/testdelme3.19819.0
user.status = ONLINE
}}}
```

* Information about how to use gfalFS is provided in the following link, <https://svnweb.cern.ch/trac/lcgutil/wiki/gfalFS>
(!) Before starting, must be executed as root user the following command:

```
{{{
rdiez@antares:~$ ssh root@test13.egi.cesga.es
Last login: Wed Oct 22 10:04:34 2014 from
2001:720:1210:402c:4550:8d50:7b11:b376
[root@test13 ~]# groups rdiez
rdiez : rdiez
```

```
[root@test13 ~]# usermod -a -G fuse rdiez
```

```
[root@test13 ~]# groups rdiez
rdiez : rdiez fuse
}}}
```

```
{{{
```

* It is necessary to configure iptable on LFC or SE before trying gfalFS and in order to give mount permissions:

```
{{{
[rdiez@test13 ~]$ mkdir mount_lfc_test09
```

```
[rdiez@test13 ~]$ gfalFS -v /home/rdiez/mount_lfc_test09
lfc://test09.egi.cesga.es/grid/ops/
verbose mode....
```

```
[rdiez@test13 ~]$ ls mount_lfc_test09/
filefgtest filefgtest141022 filefgtest150714_v2 filefgtest2
```

```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
fuse on /home/rdiez/mount_lfc_test09 type fuse
(rw,nosuid,nodev,user=rdiez)
```

```
[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/filefgtest150714_v2
#!/bin/bash
```

```
##sleep 60
hostname
date
```

```
[rdiez@test13 ~]$ gfalFS_umount /home/rdiez/mount_lfc_test09/
```

```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
}}}
```

```
{{{
```

```
[rdiez@test13 ~]$ gfalFS -v /home/rdiez/mount_lfc_test09
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
verbose mode....
```



```
[rdiez@test13 ~]$ mount |grep mount_lfc_test09
fuse on /home/rdiez/mount_lfc_test09 type fuse
(rw,nosuid,nodev,user=rdiez)
```

```
[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/
cattest_141022 cattest_171014 cattest_211014 my_test testdelme
testdelme3 testfile-put-1413797183-
63e4ec032f50.txt
cattest_150714 cattest_171014b generated test201014
testdelme2 testfile-put-1404293132-52addc5eb585.txt
```

```
[rdiez@test13 ~]$ cp hola.sh /home/rdiez/mount_lfc_test09/
```

```
[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/hola.sh
#!/bin/bash
```

```
##sleep 60
hostname
date
```

```
[rdiez@test13 ~]$ rm /home/rdiez/mount_lfc_test09/hola.sh
```

```
[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/hola.sh
ls: /home/rdiez/mount_lfc_test09/hola.sh: No such file or directory
```

```
[rdiez@test13 ~]$ gfa1FS_umount /home/rdiez/mount_lfc_test09
```

```
[rdiez@test13 ~]$ mount |grep rdiez/mount_lfc_test09
```

```
}}}
```

* Using a RFC proxy

(!) NOTE: delegate proxy already active, so command "glite-ce-delegate-proxy -e test06.egi.cesga.es rdiez" not necessary

```
{{{
```

```
[rdiez@test13 ~]$ voms-proxy-init -rfc --voms ops:/ops/Role=lcgadmin
Enter GRID pass phrase for this identity:
Contacting lcg-voms.cern.ch:15009 [/DC=ch/DC=cern/OU=computers/CN=lcg-
voms.cern.ch] "ops"...
Remote VOMS server contacted succesfully.
```

Created proxy in /tmp/x509up_u514.

Your proxy is valid until Thu Oct 23 22:35:37 CEST 2014

```
[rdiez@test13 ~]$ voms-proxy-info --all
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=1649389
issuer    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
identity  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type      : RFC3820 compliant impersonation proxy
strength  : 1024
path      : /tmp/x509up_u514
timeleft  : 11:59:35
```

```
key usage : Digital Signature, Key Encipherment
=== VO ops extension information ===
VO       : ops
subject  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
issuer   : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute : /ops/Role=lcgadmin/Capability=NULL
attribute : /ops/NGI/Role=NULL/Capability=NULL
attribute : /ops/NGI/Portugal/Role=NULL/Capability=NULL
attribute : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute : /ops/Role=NULL/Capability=NULL
timeleft : 11:59:35
uri      : lcg-voms.cern.ch:15009
```

```
[rdiez@test13 ~]$ glite-ce-delegate-proxy -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez] succesfully delegated to endpoint
[test06.egi.cesga.es]
```

```
[rdiez@test13 ~]$ glite-ce-proxy-renew -e test06.egi.cesga.es rdiez
Proxy with delegation id [rdiez succesfully renewed to endpoint
[test06.egi.cesga.es]
```

```
}}}
```

```
* Jobs probes
```

```
{{{
[rdiez@test13 ~]$ glite-ce-job-submit -D rdiez -r
test06.egi.cesga.es:8443/cream-pbs-GRID_ops check_bug.jdl
https://test06.egi.cesga.es:8443/CREAM861584582
```

```
[rdiez@test13 ~]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM861584582
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM861584582]
Status      = [DONE-OK]
ExitCode    = [0]
```

```
}}}
```

```
{{{
[rdiez@test13 ~]$ cd mpi_job_grid_verification/
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-submit -D rdiez
-r test06.egi.cesga.es:8443/cream-pbs-GRID_ops job1.jdl
https://test06.egi.cesga.es:8443/CREAM287126114
```

```
[rdiez@test13 mpi_job_grid_verification]$ glite-ce-job-status
https://test06.egi.cesga.es:8443/CREAM287126114
```

```
***** JobID=[https://test06.egi.cesga.es:8443/CREAM287126114]
Status      = [DONE-OK]
ExitCode    = [1]
```

```
}}}
```

```
* Trying to copy and delete a file on the SE (OK)
```

```
{{{
```

```
[rdiez@test13 mpi_job_grid_verification]$ export  
LFC_HOST=test09.egi.cesga.es
```

```
[rdiez@test13 mpi_job_grid_verification]$ export  
VO_OPS_DEFAULT_SE=test08.egi.cesga.es
```

```
[rdiez@test13 mpi_job_grid_verification]$ lcg-cr -v --vo ops  
file:/home/rdiez/hola.sh -l lfn:/grid/ops/testh_rdiez -d  
test08.egi.cesga.es  
Using grid catalog type: lfc  
Using grid catalog : test09.egi.cesga.es  
Checksum type: None  
SE type: SRMv2  
Destination SURL :  
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-  
23/file7b9c1d7e-a3db-45f5-a32a-6faf91e26fd1  
Source SRM Request Token: 2c9712a7-16d0-4abe-9014-8b01dfdfd328  
Source URL: file:/home/rdiez/hola.sh  
File size: 38  
VO name: ops  
Destination specified: test08.egi.cesga.es  
Destination URL for copy:  
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-  
23/file7b9c1d7e-a3db-45f5-a32a-6faf91e26fd1.20258.0  
# streams: 1  
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst  
          38 bytes          0.34 KB/sec avg          0.34 KB/sec inst
```

```
Transfer took 1010 ms  
Using grid catalog type: lfc  
Using grid catalog : test09.egi.cesga.es  
Site URL to be registered:  
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-  
23/file7b9c1d7e-a3db-45f5-a32a-6faf91e26fd1  
File size: 38  
Using LFN: lfn:/grid/ops/testh_rdiez  
Using GUID: guid:3f9338fe-3570-4261-8ff8-890737bd0b19  
Registering LFN: /grid/ops/testh_rdiez (3f9338fe-3570-4261-8ff8-  
890737bd0b19)  
Registering SURL:  
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-  
23/file7b9c1d7e-a3db-45f5-a32a-6faf91e26fd1 (3f9338fe-3570-4261-8ff8-  
890737bd0b19)  
guid:3f9338fe-3570-4261-8ff8-890737bd0b19
```

```
}}}
```

```
{{{  
[rdiez@test13 mpi_job_grid_verification]$ lcg-ls -v  
srm://grid002.ft.uam.es:8443/pnfs/ft.uam.es/data/  
SE type: SRMv2  
/pnfs/ft.uam.es/data/temp  
/pnfs/ft.uam.es/data/users  
/pnfs/ft.uam.es/data/atlas  
/pnfs/ft.uam.es/data/ops  
/pnfs/ft.uam.es/data/dteam  
/pnfs/ft.uam.es/data/ops.vo.ibergrid.eu  
/pnfs/ft.uam.es/data/phys.vo.ibergrid.eu  
}}}
```

```

{{{
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest141023 -d se2.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/file51cba166-d038-48c5-a3ed-1786754df8ac
Source SRM Request Token: d03fbb5-e0a9-4313-8841-7f4a9301d4d4
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: se2.egi.cesga.es
Destination URL for copy:
gsiftp://se2.egi.cesga.es/se2.egi.cesga.es:/storage/ops/2014-10-
23/file51cba166-d038-48c5-a3ed-1786754df8ac.16894111.0
# streams: 1
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst
          38 bytes          0.37 KB/sec avg          0.37 KB/sec inst

Transfer took 1000 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/file51cba166-d038-48c5-a3ed-1786754df8ac
File size: 38
Using LFN: lfn:/grid/ops/filefgtest141023
Using GUID: guid:9b749ea0-90cf-461e-96b4-8df8a7deaa61
Registering LFN: /grid/ops/filefgtest141023 (9b749ea0-90cf-461e-96b4-
8df8a7deaa61)
Registering SURL:
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/file51cba166-d038-48c5-a3ed-1786754df8ac (9b749ea0-90cf-461e-96b4-
8df8a7deaa61)
guid:9b749ea0-90cf-461e-96b4-8df8a7deaa61

[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest141023
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/file51cba166-d038-48c5-a3ed-1786754df8ac

[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/filefgtest141023

[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/filefgtest141023
[LFC][lfc_getreplica][] test09.egi.cesga.es:
/grid/ops/filefgtest141023: No such file or directory
lcg_lr: No such file or directory

[rdiez@test13 ~]$ lcg-del --vo ops -a lfn:/grid/ops/testh_rdiez

[rdiez@test13 ~]$ lcg-lr --vo ops lfn:/grid/ops/testh_rdiez
[LFC][lfc_getreplica][] test09.egi.cesga.es: /grid/ops/testh_rdiez: No
such file or directory
lcg_lr: No such file or directory
}}}}

```

* Checking the VOMS PROXY INFO (OK)

```

{{{
[rdiez@test13 ~]$ voms-proxy-info --all
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia/CN=1649389
issuer    : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
identity  : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
type      : RFC3820 compliant impersonation proxy
strength  : 1024
path      : /tmp/x509up_u514
timeleft  : 11:46:31
key usage : Digital Signature, Key Encipherment
=== VO ops extension information ===
VO        : ops
subject   : /DC=es/DC=irisgrid/O=cesga/CN=Robot - Ibergrid SAM
NagiosUser managed by Esteban Freire Garcia
issuer    : /DC=ch/DC=cern/OU=computers/CN=lcg-voms.cern.ch
attribute : /ops/Role=lcgadmin/Capability=NULL
attribute : /ops/NGI/Role=NULL/Capability=NULL
attribute : /ops/NGI/Portugal/Role=NULL/Capability=NULL
attribute : /ops/NGI/Spain/Role=NULL/Capability=NULL
attribute : /ops/Role=NULL/Capability=NULL
timeleft  : 11:46:31
uri       : lcg-voms.cern.ch:15009
}}}}

```

```

{{{
World writable files (OK)

```

An easy way to find world-writable files is using the find command:

```
find / -type f -perm -002 -exec ls -l {} \;
```

For finding world-writable files in the packages contents:

```

rpm -qalv | egrep "^[-d]([-r][-w][-xs]){2}[-r]w"
drwxrwxrwt  2 root    root          0 oct  7  2009 /tmp
drwxrwxrwt  2 root    root          0 oct  7  2009 /var/tmp
drwxrwxrwt  2 root    root          0 jun 17  2009
/var/spool/vbox
drwxrwxrwt  2 root    root          0 oct  1  2013
/var/cache/coolkey
-rw-rw-rw-  1 root    root          0 ago 29 22:15
/var/run/nscd/socket
drwxrwxrwt  2 root    root          0 oct  1  2013
/var/cache/coolkey
}}}}

```

* gfal2 stuff:

```

{{{
[rdiez@test13 ~]$ export VO_OPS_DEFAULT_SE=test08.egi.cesga.es

[rdiez@test13 ~]$ export LFC_HOST=test09.egi.cesga.es

[rdiez@test13 ~]$ lfc-ls /grid/ops
filefgtest
filefgtest141022
filefgtest150714_v2

```

filefgtest2

```
[rdiez@test13 ~]$ dpns-ls /dpm/egi.cesga.es/home
cesga
dteam
iber.vo.ibergrid.eu
ops
ops.vo.ibergrid.eu
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Oct 22 10:17 38 cattest_141022 None
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 08:54 38 test201014 None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-
63e4ec032f50.txt None
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
drwxrwxr-x 1 2 2 Oct 22 2009 0.0 alice None
drwxrwxr-x 1 2 2 Jun 24 2010 0.0 atlas None
drwxrwxr-x 1 2 2 Mar 5 2012 0.0 auger None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 bing.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 23 10:02 0.0 biomed None
drwxrwxr-x 1 2 2 Oct 26 2011 0.0 cesga None
drwxrwxr-x 1 2 2 Feb 21 2011 0.0 chem.vo.ibergrid.eu None
drwxrwxr-x 1 2 2 Oct 26 2009 0.0 cms None
drwxrwxr-x 1 2 2 Feb 8 2012 0.0 compchem None
drwxrwxr-x 1 2 2 Jun 1 2008 0.0 diligent None
drwxrwxr-x 1 2 2 Sep 7 2011 0.0 dteam None
[.....]
```

```
[rdiez@test13 ~]$ gfal-ls
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/
alice
atlas
auger
bing.vo.ibergrid.eu
biomed
cesga
chem.vo.ibergrid.eu
cms
compchem
diligent
dteam
[.....]
```

}}}

{{{

```
[rdiez@test13 ~]$ gfal-copy
srm://se2.egi.cesga.es/dpm/egi.cesga.es/home/ops/testfile-put-
1401882691-cf0388798004.txt file:/home/rdiez/test141023
Copying 1 [DONE] after 2s
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testfile-put-1404293132-
52addc5eb585.txt file:/home/rdiez/test141023b
Copying 1 [DONE] after 1s
```

}}}

{{{

```
[rdiez@test13 ~]$ lcg-cr -v --vo ops file:/home/rdiez/hola.sh -l
lfn:/grid/ops/filefgtest141023 -d test08.egi.cesga.es
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Checksum type: None
SE type: SRMv2
Destination SURL :
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/fileeeeea7e9d-8cef-42e1-8d15-98ffc17ce69c
Source SRM Request Token: 564f76e6-2687-4542-b6c9-33b330a1f6ee
Source URL: file:/home/rdiez/hola.sh
File size: 38
VO name: ops
Destination specified: test08.egi.cesga.es
Destination URL for copy:
gsiftp://test08.egi.cesga.es/test08.egi.cesga.es:/storage/ops/2014-10-
23/fileeeeea7e9d-8cef-42e1-8d15-98ffc17ce69c.20263.0
# streams: 1
          0 bytes      0.00 KB/sec avg      0.00 KB/sec inst
          38 bytes      0.32 KB/sec avg      0.32 KB/sec inst
```

```
Transfer took 1010 ms
Using grid catalog type: lfc
Using grid catalog : test09.egi.cesga.es
Site URL to be registered:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/fileeeeea7e9d-8cef-42e1-8d15-98ffc17ce69c
File size: 38
Using LFN: lfn:/grid/ops/filefgtest141023
Using GUID: guid:2c4dd3e8-d77d-42c8-8463-1ff03f03a55d
Registering LFN: /grid/ops/filefgtest141023 (2c4dd3e8-d77d-42c8-8463-
1ff03f03a55d)
Registering SURL:
srm://test08.egi.cesga.es/dpm/egi.cesga.es/home/ops/generated/2014-10-
23/fileeeeea7e9d-8cef-42e1-8d15-98ffc17ce69c (2c4dd3e8-d77d-42c8-8463-
1ff03f03a55d)
guid:2c4dd3e8-d77d-42c8-8463-1ff03f03a55d
}}}
```

{{{

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
```

```
SFN=/dpm/egi.cesga.es/home/ops/test171014
lfc://test09.egi.cesga.es/grid/ops/filefgtest141023b
Copying 1 [FAILED] after 0s
gfal-copy: error: Invalid argument
```

```
[rdiez@test13 ~]$ gfal-copy
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test141023
lfc://test09.egi.cesga.es/grid/ops/filefgtest141023b
Copying 1 [FAILED] after 0s
gfal-copy: error: Invalid argument
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-ls lfn:/grid/ops/
filefgtest
filefgtest141022
filefgtest141023
filefgtest150714_v2
filefgtest2
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Oct 22 10:17 38 cattest_141022 None
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 08:54 38 test201014 None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-
52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-
63e4ec032f50.txt None
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-rm
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/test201014
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Oct 22 10:17 38 cattest_141022 None
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 13:31 38 testdelme2 None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
```



```
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-63e4ec032f50.txt None
}}}
```

```
{{{
[rdiez@test13 ~]$ gfal-rm
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/testdelme2
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Oct 22 10:17 38 cattest_141022 None
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 18 02:48 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-63e4ec032f50.txt None
}}}
```

```
[rdiez@test13 ~]$ gfal-mkdir
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/prudir
```

```
[rdiez@test13 ~]$ gfal-rm -r
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/prudir
```

```
[rdiez@test13 ~]$ gfal-ls -Hl
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
-rw-rw-r-- 1 2 2 Oct 22 10:17 38 cattest_141022 None
-rw-rw-r-- 1 2 2 Jul 15 13:29 266 cattest_150714 None
-rw-rw-r-- 1 2 2 Oct 17 08:53 38 cattest_171014 None
-rw-rw-r-- 1 2 2 Oct 17 10:30 38 cattest_171014b None
-rw-rw-r-- 1 2 2 Oct 21 16:14 38 cattest_211014 None
drwxrwxr-x 1 2 2 Oct 23 10:27 0.0 generated None
-rw-rw-r-- 1 2 2 May 16 2013 266 my_test None
-rw-rw-r-- 1 2 2 Oct 20 10:13 38 testdelme None
-rw-rw-r-- 1 2 2 Oct 20 15:58 38 testdelme3 None
-rw-rw-r-- 1 2 2 Jul 2 10:25 20 testfile-put-1404293132-52addc5eb585.txt None
-rw-rw-r-- 1 2 2 Oct 20 10:26 20 testfile-put-1413797183-63e4ec032f50.txt None
}}}
```

```
{{{
[rdiez@test13 ~]$ cat hola.sh |gfal-save
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141023
```

```

[rdiez@test13 ~]$ gfal-cat
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141023
#!/bin/bash

##sleep 60
hostname
date
}}

{{{
[rdiez@test13 ~]$ gfal-sum
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141023 MD5
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141023
e8a436b9f55861dce93c946464a44d63
}}}

}}}

{{{
[rdiez@test13 ~]$ gfal-xattr
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/cattest_141023
user.replicas = rfiio://test08.egi.cesga.es//storage/ops/2014-10-
23/cattest_141023.20274.0
user.status = ONLINE
}}}

* Information about how to use gfalFS is provided in the following
link, https://svnweb.cern.ch/trac/lcgutil/wiki/gfalFS
(!) Before starting, must be executed as root user the following
command:
{{{
[root@test13 ~]# groups rdiez
rdiez : rdiez
[root@test13 ~]# usermod -a -G fuse rdiez

[root@test13 ~]# groups rdiez
rdiez : rdiez fuse
}}}

{{{
* It is necessary to configure iptable on LFC or SE before trying
gfalFS and in order to give mount permissions:

{{{
[rdiez@test13 ~]$ mkdir mount_lfc_test09

[rdiez@test13 ~]$ gfalFS -v /home/rdiez/mount_lfc_test09
lfc://test09.egi.cesga.es/grid/ops/
verbose mode....

[rdiez@test13 ~]$ ls mount_lfc_test09/
filefgtest filefgtest141022 filefgtest141023 filefgtest150714_v2
filefgtest2

[rdiez@test13 ~]$ mount |grep rdiez/mount_lfc_test09
fuse on /home/rdiez/mount_lfc_test09 type fuse
(rw,nosuid,nodev,user=rdiez)

```

```

[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/filefgtest
#!/bin/bash

##sleep 60
hostname
date

[rdiez@test13 ~]$ gfalFS_umount /home/rdiez/mount_lfc_test09/

[rdiez@test13 ~]$ mount |grep rdiez/mount_lfc_test09

}}

{{{
[rdiez@test13 ~]$ gfalFS -v /home/rdiez/mount_lfc_test09
srm://test08.egi.cesga.es:8446/srm/managerv2?
SFN=/dpm/egi.cesga.es/home/ops/
verbose mode....

[rdiez@test13 ~]$ mount |grep rdiez/mount_lfc_test09
fuse on /home/rdiez/mount_lfc_test09 type fuse
(rw,nosuid,nodev,user=rdiez)

[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/
cattest_141022  cattest_150714  cattest_171014b  generated  testdelme
testfile-put-1404293132-52addc5eb585.txt
cattest_141023  cattest_171014  cattest_211014  my_test    testdelme3
testfile-put-1413797183-63e4ec032f50.txt

[rdiez@test13 ~]$ cp hola.sh /home/rdiez/mount_lfc_test09/

[rdiez@test13 ~]$ cat /home/rdiez/mount_lfc_test09/hola.sh
#!/bin/bash

##sleep 60
hostname
date

[rdiez@test13 ~]$ rm /home/rdiez/mount_lfc_test09/hola.sh

[rdiez@test13 ~]$ ls /home/rdiez/mount_lfc_test09/hola.sh
ls: /home/rdiez/mount_lfc_test09/hola.sh: No such file or directory

[rdiez@test13 ~]$ gfalFS_umount /home/rdiez/mount_lfc_test09

[rdiez@test13 ~]$ mount |grep rdiez/mount_lfc_test09
}}

```

New Features/Fixed Bugs

A bug was found. It is only for SL5. All the verification was made with the bug removed. Please note that in the time of this verification the bug is not yet applied in the available online release.

Detailed Description:

gfal-util version 1.0.0

Command type:

"gfal-copy source destination" product this error:

Exception in thread Thread-1:

Traceback (most recent call last):

File "/usr/lib64/python2.4/threading.py", line 442, in __bootstrap
self.run()

File "/usr/lib64/python2.4/threading.py", line 422, in run
self.__target(*self.__args, **self.__kwargs)

File "/usr/lib/python2.4/site-packages/gfal2_util/base.py", line 69, in executor
self.return_code = func(self)

File "/usr/lib/python2.4/site-packages/gfal2_util/commands.py", line 93, in
execute_copy

d = self._copy(s, d, i)

File "/usr/lib/python2.4/site-packages/gfal2_util/commands.py", line 172, in _copy
self.progress_bar.stop(ret == 0)

File "/usr/lib/python2.4/site-packages/gfal2_util/progress.py", line 166, in stop
if self.t_main.is_alive():

AttributeError: 'Thread' object has no attribute 'is_alive'

CAUSE:

SL5 uses by default Python 2.4. Under python 2.4 the method "is_alive" don't exists.

See [https://docs.python.org/2/library/threading.html?](https://docs.python.org/2/library/threading.html?highlight=is_alive#threading.Thread.is_alive)

[highlight=is_alive#threading.Thread.is_alive](https://docs.python.org/2/library/threading.html?highlight=is_alive#threading.Thread.is_alive)

SOLUTION:

In file /usr/lib/python2.4/site-packages/gfal2_util/progress.py, change the line 166 from:

if self.t_main.is_alive()

to:

if self.t_main.isAlive():

According to the mentioned Python documentation, this should works both in Python 2.4 (SL5) and Python 2.6 (SL6)

Additional Info

Additional information about the mentioned issue can be found at

https://ggus.eu/index.php?mode=ticket_info&ticket_id=109527

Testing a correct gfal2-util package (gfal2-util-1.0.0-2).

See ticket https://ggus.eu/index.php?mode=ticket_info&ticket_id=109527

The new package can be download from:

<https://kojipkgs.fedoraproject.org/packages/gfal2-util/1.0.0/2.el5/noarch/gfal2-util-1.0.0-2.el5.noarch.rpm>

New package installed with:

```
{{{
```

```
# yum --nogpgcheck install gfal2-util-1.0.0-2.el5.noarch.rpm
```

=====
=====
=====

| <i>Package</i> | <i>Arch</i> | <i>Version</i> | <i>Repository</i> |
|----------------|-------------|----------------|-------------------|
| <i>Size</i> | | | |

=====
=====
=====

Updating:
gfal2-util *noarch* *1.0.0-2.el5* */gfal2-util-1.0.0-*
2.el5.noarch *103 k*

Transaction Summary
=====
=====
=====

Install *0 Package(s)*
Upgrade *1 Package(s)*

Total size: 103 k
Is this ok [y/N]: y
Downloading Packages:
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
 Updating *: gfal2-util*
1/2
 Cleanup *: gfal2-util*
2/2

Updated:
gfal2-util.noarch 0:1.0.0-2.el5

Complete!

}}

After this update, no issues related to the mentioned bug were observed.