

Login: xxxxxxxx  
Password: xxxxxxxx  
UI hostname: ui01.isabella.grnet.gr

• Retrieving information of the user certificate

[egee01@ui01 egee01]\$ grid-cert-info

Certificate:

Data:

Version: 3 (0x2)  
Serial Number: 2108 (0x83c)  
Signature Algorithm: sha1WithRSAEncryption  
Issuer: C=GR, O=HellasGrid Demos, OU=Certification Authoritites, CN=HellasGrid Demo CA 2006  
Validity  
Not Before: Nov 1 15:55:02 2007 GMT  
Not After : Nov 16 15:55:02 2007 GMT  
Subject: C=GR, O=HellasGrid Demos, OU=People, L=EMP\_Training, CN=User 2108  
Subject Public Key Info:  
Public Key Algorithm: rsaEncryption  
RSA Public Key: (1024 bit)  
Modulus (1024 bit):

[...]

• Creating a proxy certificate

[egee01@ui01 egee01]\$ voms-proxy-init --voms=hgdemo

Your identity: /C=GR/O=HellasGrid Demos/OU=People/L=EMP\_Training/CN=User 2108

Enter GRID pass phrase:

wrong pass phrase

Function: proxy\_init\_cred

[egee01@ui01 egee01]\$ voms-proxy-init --voms=hgdemo

Your identity: /C=GR/O=HellasGrid Demos/OU=People/L=EMP\_Training/CN=User 2108

Enter GRID pass phrase:

Creating temporary proxy

..... Done  
Contacting voms.grid.auth.gr:15030 [/C=GR/O=HellasGrid/OU=auth.gr/CN=voms.grid.auth.gr] "hgdemo"  
Done  
Creating proxy ..... Done  
Your proxy is valid until Sat Nov 3 08:26:09 2007

• Destroying a proxy certificate

[egee01@ui01 egee01]\$ voms-proxy-destroy

• Obtaining information about computing resources of a specific VO

[egee01@ui01 egee01]\$ lcg-infosites --vo hgdemo ce

#CPU	Free	Total	Jobs	Running	Waiting	ComputingElement
9	1	0	0	0	0	node001.grid.auth.gr:2119/jobmanager-pbs-hgdemo
18	8	0	0	0	0	ce02.marie.hellasgrid.gr:2119/jobmanager-pbs-hgdemo
61	4	0	0	0	0	ce01.isabella.grnet.gr:2119/jobmanager-pbs-hgdemo

• Obtaining information about storage resources of a specific VO

[egee01@ui01 egee01]\$ lcg-infosites --vo hgdemo se

Avail Space(Kb)	Used Space(Kb)	Type	SEs
171550000	398	n.a	se02.marie.hellasgrid.gr
1564778240	3577805056	n.a	se01.isabella.grnet.gr
2340000000	198201	n.a	se01.afroditi.hellasgrid.gr

• Listing the hostnames of the LFC catalogues of a specific VO

[egee01@ui01 egee01]\$ lcg-infosites --vo hgdemo lfc

lfc.isabella.grnet.gr

• Listing the software tags published by each CE supporting the VO

[egee01@ui01 egee01]\$ lcg-infosites --vo see tag

Name of the CE: ce01.isabella.grnet.gr

VO-see-R-2.4.0

VO-see-octave-2.1.73

VO-see-gsl-1.9

VO-seegrid-vive-0.4.3

VO-seegrid-grow-0.2

• Listing all WLCG/EGEE sitenames

```
[egee01@ui01 egee01]$ lcg-infosites --vo hgdemo sitenames
[...]
HG-01-GRNET
HG-02-IASA
HG-03-AUTH
HG-04-CTI-CEID
HG-05-FORTH
HG-06-EKT
[...]
```

• Listing computing elements that match a job description

```
[egee01@ui01 egee01]$ glite-wms-job-list-match -a testJob1.jdl
Connecting to the service https://wms01.egee-see.org:7443/glite_wms_wmproxy_server
=====
COMPUTING ELEMENT IDs LIST
The following CE(s) matching your job requirements have been found:

*CEId*
- ce01.afroditi.hellasgrid.gr:2119/jobmanager-pbs-hgdemo
- ce01.ariagni.hellasgrid.gr:2119/jobmanager-lcgpbs-hgdemo
- ce01.athena.hellasgrid.gr:2119/jobmanager-pbs-hgdemo
[...]
```

• Single Job submission

```
[egee01@ui01 egee01]$ glite-wms-job-submit -o jobId -a testJob1.jdl
Connecting to the service https://wms01.egee-see.org:7443/glite_wms_wmproxy_server
===== glite-wms-job-submit Success =====
The job has been successfully submitted to the WMPProxy
Your job identifier is:

https://wms01.egee-see.org:9000/6INrYSPP4XfkgTYHuqHuww

The job identifier has been saved in the following file:
/home/training/egee01/jobId
```

• Retrieving the status of a job

```
[egee01@ui01 egee01]$ glite-wms-job-status -i jobId
*****
BOOKKEEPING INFORMATION:
Status info for the Job : https://wms01.egee-see.org:9000/6INrYSPP4XfkgTYHuqHuww
Current Status:      Done (Success)
Exit code:           0
Status Reason:      Job terminated successfully
Destination:        ce01.marie.hellasgrid.gr:2119/jobmanager-pbs-hgdemo
Submitted:          Sun Nov  4 20:03:05 2007 EET
*****
```

```
[egee01@ui01 egee01]$ watch "glite-job-status -i jobId"
```

• Cancelling a job

```
[egee01@ui01 egee01]$ glite-wms-job-cancel -i jobId
Are you sure you want to remove specified job(s) [y/n]y :
```

• Output retrieval

```
[egee01@ui01 egee01]$ glite-wms-job-output -i jobId
Connecting to the service https://195.251.53.233:7443/glite_wms_wmproxy_server
=====
JOB GET OUTPUT OUTCOME
Output sandbox files for the job:
https://wms01.egee-see.org:9000/6INrYSPP4XfkgTYHuqHuww
have been successfully retrieved and stored in the directory:
/tmp/glite/glite-ui/egee01_6INrYSPP4XfkgTYHuqHuww
=====
```

```
[egee01@ui01 egee01]$ ls -l /tmp/glite/glite-ui/egee01_6INrYSPP4XfkgTYHuqHuww
total 1344
-rw-rw-r-- 1 egee01 egee01 1356179 Nov  4 20:44 gLite-3-UserGuide.pdf
-rw-rw-r-- 1 egee01 egee01 1782 Nov  4 20:44 merge.out
-rw-rw-r-- 1 egee01 egee01 0 Nov  4 20:44 std.err
-rw-rw-r-- 1 egee01 egee01 2419 Nov  4 20:44 std.out
```

• Configuration to use the LFC catalogue

```
[egee01@ui01 egee01]$ export LFC_HOST=`lcg-infosites --vo hgdemo lfc`
[egee01@ui01 egee01]$ export LCG_CATALOG_TYPE=lfc
[egee01@ui01 egee01]$ export LCG_GFAL_VO=hgdemo
```

- **Creating a directory**

```
[egee01@ui01 egee01]$ lfc-mkdir /grid/hgdemo/(LFC_directory_name)
(LFC_directory_name) ⇨ the name of the directory to be created
```

- **Listing the entries of a LFC directory**

```
[egee01@ui01 egee01]$ lfc-ls -l /grid/hgdemo/
drwxrwxr-x  0 26259  32000          0 Nov 04 20:57 test_egee01
drwxrwxr-x  0 26236  32000          0 Sep 18 01:17 test_egee03
```

- **Defining LFC\_HOME variable to point to the created directory**

```
[egee01@ui01 egee01]$ export LFC_HOME=/grid/hgdemo/(LFC_directory_name)
```

- **Uploading a file to the grid**

```
[egee01@ui01 egee01]$ lcg-cr file:$PWD/(file_to_upload) -l lfn:(LFN_name)
guid:cd7f7909-c62b-4cc9-8c61-5d8e369e6e90
```

```
[egee01@ui01 egee01]$ lcg-cr file:$PWD/(file_to_upload) -l lfn:(LFN_name) -d
(hostname_of_storage_element)
guid:d6fac888-59f9-4e44-aca4-62407a7fd180
```

(file\_to\_upload) ⇨ the name of the file to be uploaded

(LFN\_name) ⇨ the LFN given by the user

(hostname\_of\_storage\_element) ⇨ the hostname of the storage element where the file will be uploaded

- **Replicating a file**

```
[egee01@ui01 egee01]$ lcg-rep -v lfn:(LFN_name) -d (hostname_of_storage_element)
Using grid catalog type: lfc
Using grid catalog : lfc.isabella.grnet.gr
Source URL: lfn:/grid/hgdemo/test_egee01/image1
File size: 33985
VO name: hgdemo
Destination specified: se01.kallisto.hellasgrid.gr
Source URL for copy: gsiftp://se01.isabella.grnet.gr/storage/hgdemo/generated/2007-11-04/file21c2d313-ca4c-4bb4-bbfd-09f946068920
Destination URL for copy:
gsiftp://se01.kallisto.hellasgrid.gr/se01.kallisto.hellasgrid.gr:/data02/hgdemo/2007-11-04/fileb1b5d5e7-22e7-4ce4-9785-aad6373ab00f.200096.0
# streams: 1
# set timeout to 0
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst
Transfer took 3250 ms
Destination URL registered in LRC:
srm://se01.kallisto.hellasgrid.gr/dpm/kallisto.hellasgrid.gr/home/hgdemo/generated/2007-11-04/fileb1b5d5e7-22e7-4ce4-9785-aad6373ab00f
```

- **Downloading a file out of the Grid**

```
[egee01@ui01 egee01]$ lcg-cp -t 100 lfn:(LFN_name) file:$PWD/(filename)
Using grid catalog type: lfc
Using grid catalog : lfc.isabella.grnet.gr
VO name: (null)
Source URL: lfn:/grid/hgdemo/test_egee01/image1
File size: 33985
Source URL for copy: gsiftp://se01.isabella.grnet.gr/storage/hgdemo/generated/2007-11-04/file21c2d313-ca4c-4bb4-bbfd-09f946068920
Destination URL: file:/home/training/egee01/copy_image1
# streams: 1
# set timeout to 100 (seconds)
          0 bytes          0.00 KB/sec avg          0.00 KB/sec inst
Transfer took 1010 ms
```

(filename) ⇨ the name to be used in the local filesystem

- **Listing replicas**

```
[egee01@ui01 egee01]$ lcg-lr --vo hgdemo lfn:(LFN_name)
```

```
sfn://se01.isabella.grnet.gr/storage/hgdemo/generated/2007-11-04/file21c2d313-ca4c-4bb4-bbfd-09f946068920
srm://se01.kallisto.hellasgrid.gr/dpm/kallisto.hellasgrid.gr/home/hgdemo/generated/2007-11-04/fileb1b5d5e7-22e7-4ce4-9785-aad6373ab00f
```

- **Listing GUIDs given the LFN**

```
[egee01@ui01 egee01]$ lcg-lg lfn:(LFN_name)
guid:d6fac888-59f9-4e44-aca4-62407a7fd180
```

- **Adding metadata information to LFC entries**

```
[egee01@ui01 egee01]$ lfc-setcomment /grid/hgdemo/(LFC_directory_name)/(LFN_name)
"Comment "
```

- **View metadata of a specific file**

```
[egee01@ui01 egee01]$ lfc-ls --comment /grid/hgdemo/(LFC_directory_name)/(LFN_name)
/grid/hgdemo/test_egee01/image1 Created for the training
```

- **Removing metadata information to LFC entries**

```
[egee01@ui01 egee01]$ lfc-delcomment /grid/hgdemo/(LFC_directory_name)/(LFN_name)
```

- **Deleting all replicas with a specific LFN**

```
[egee01@ui01 egee01]$ lcg-del -a lfn:(LFN_name)
```

- **Deleting LFC directory**

```
[egee01@ui01 egee01]$ lfc-rm -r /grid/hgdemo/(LFC_directory_name)
```