

SSH sur grid-tutor.ct.infn.it:

login: clermont-ferrandxx

password: GridCLExx

\$ grid-proxy-init

Your identity: /C=IT/O=GILDA/OU=Personal Certificate/L=CLERMONT-FERRAND/CN=CLERMONT-

FERRAND01/Email=emmanuel.medernach@clermont.in2p3.fr

Enter GRID pass phrase for this identity:**CLERMONT-FERRAND**

Creating proxy Done

Your proxy is valid until: Fri Sep 2 21:35:27 2005

\$ grid-proxy-info

subject : /C=IT/O=GILDA/OU=Personal Certificate/L=CLERMONT-FERRAND/CN=CLERMONT-FERRAND01/Email=emmanuel.medernach@clermont.in2p3.fr/CN=proxy
issuer : /C=IT/O=GILDA/OU=Personal Certificate/L=CLERMONT-FERRAND/CN=CLERMONT-FERRAND01/Email=emmanuel.medernach@clermont.in2p3.fr
identity : /C=IT/O=GILDA/OU=Personal Certificate/L=CLERMONT-FERRAND/CN=CLERMONT-FERRAND01/Email=emmanuel.medernach@clermont.in2p3.fr
type : full legacy globus proxy
strength : 512 bits
path : /tmp/x509up_u2439
timeleft : 11:53:33

\$ grid-proxy-destroy

```
$ grid-proxy-init -valid 24:00
```

```
$ openssl x509 -in /tmp/x509up_u`id -u` -text
```

Certificate:

Data:

Version: 3 (0x2)

Serial Number: 2239 (0x8bf)

Signature Algorithm: md5WithRSAEncryption

Issuer: C=IT, O=GILDA, OU=Personal Certificate, L=CLERMONT-FERRAND, CN=CLERMONT-FERRAND01/Email=emmanuel.medernach@clermont.in2p3.fr

Validity

Not Before: Sep 2 07:52:10 2005 GMT

Not After : Sep 3 07:57:10 2005 GMT

```
$ cat HelloWorld.jdl
```

```
Executable = "/bin/echo ";
```

```
Arguments = "Hello World ";
```

```
Stdoutput = "message.txt ";
```

```
StdError = "stderr ";
```

```
OutputSandbox = { " message.txt",  
"stderr "};
```

\$ edg-job-list-match --vo gilda helloworld.jdl

Selected Virtual Organisation name (from --vo option): gilda
Connecting to host grid004.ct.infn.it, port 7772

COMPUTING ELEMENT IDs LIST

The following CE(s) matching your job requirements have been found:

CEId

ced-ce0.datagrid.cnr.it:2119/jobmanager-lcgpbs-infinite
ced-ce0.datagrid.cnr.it:2119/jobmanager-lcgpbs-long
ced-ce0.datagrid.cnr.it:2119/jobmanager-lcgpbs-short
gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-short
grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-infinite
grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-long
grid-ce.bio.dist.unige.it:2119/jobmanager-lcgpbs-short

...

\$ lcg-infosites --vo gilda ce

These are the related data for gilda: (in terms of queues and CPUs)

#CPU	Free	Total Jobs	Running	Waiting	Computing	Element
36	36	0	0	0	0	grid010.ct.infn.it:2119/jobmanager-lcgpbs-long
14	14	0	0	0	0	grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-long
6	6	0	0	0	0	ced-ce0.datagrid.cnr.it:2119/jobmanager-lcgpbs-long
...						

```
$ edg-job-submit --vo gilda helloworld.jdl
```

```
Selected Virtual Organisation name (from --vo option): gilda
```

```
Connecting to host grid004.ct.infn.it, port 7772
```

```
Logging to host grid004.ct.infn.it, port 9002
```

```
*****
```

JOB SUBMIT OUTCOME

The job has been successfully submitted to the Network Server.

Use edg-job-status command to check job current status. Your job identifier (edg_jobId) is:

- <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

```
*****
```


\$ edg-job-status <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

BOOKKEEPING INFORMATION:

Status info for the Job : <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

Current Status: **Scheduled**

Status Reason: **Job successfully submitted to Globus**

Destination: **grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-long**

reached on: **Fri Sep 2 08:21:16 2005**

\$ edg-job-status <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

BOOKKEEPING INFORMATION:

Status info for the Job : <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

Current Status: **Running**

Status Reason: **Job successfully submitted to Globus**

Destination: **grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-long**

reached on: **Fri Sep 2 08:24:35 2005**

\$ edg-job-status <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

BOOKKEEPING INFORMATION:

Status info for the Job : <https://grid004.ct.infn.it:9000/PKw6dRR-0ziUf8r217TZoA>

Current Status: Aborted

Status Reason: Failure while executing job wrapper

Destination: grid006.cecalc.ula.ve:2119/jobmanager-lcgpbs-long

reached on: Fri Sep 2 08:26:59 2005

\$ edg-job-status <https://grid004.ct.infn.it:9000/9OH6fatuhZjHI6CKVdHfKQ>

BOOKKEEPING INFORMATION:

Status info for the Job :

<https://grid004.ct.infn.it:9000/9OH6fatuhZjHI6CKVdHfKQ> Current Status:

Done (Success)

Exit code: 0

Status Reason: Job terminated successfully

Destination: grid011f.cnaf.infn.it:2119/jobmanager-lcgpbs-short

reached on: Fri Sep 2 09:32:57 2005

```
$ edg-job-get-output --dir resultats
```

```
https://lxn1177.cern.ch:9000/j7BaJWDA11AYYGYvbRRlUw
```

```
Retrieving files from host: lxn1177.cern.ch ( for  
https://lxn1177.cern.ch:9000/j7BaJWDA11AYYGYvbRRlUw )
```

```
*****
```

JOB GET OUTPUT OUTCOME

```
Output sandbox files for the job:
```

```
- https://lxn1177.cern.ch:9000/j7BaJWDA11AYYGYvbRRlUw  
have been successfully retrieved and stored in the directory:  
/home/manu/resultats/manu_j7BaJWDA11AYYGYvbRRlUw
```

```
$ cat resultats/manu_j7BaJWDA11AYYGYvbRRlUw/std.*
```

```
...
```

```
$ edg-job-submit -o jobsid --vo gilda helloworld.jdl
$ edg-job-submit -o jobsid --vo gilda helloworld.jdl
$ edg-job-submit -o jobsid --vo gilda helloworld.jdl
$ edg-job-submit -o jobsid --vo gilda helloworld.jdl
$ edg-job-submit -o jobsid --vo gilda helloworld.jdl
```

```
$ edg-job-status -i jobsid
```

```
-----
1 : https://grid004.ct.infn.it:9000/UcDXhD6z3yRGzBQt1k_Z6Q
2 : https://grid004.ct.infn.it:9000/-mfCNPcCcpCf5uOe3D6JkQ
3 : https://grid004.ct.infn.it:9000/D24Fo3VbfHzpHFXau2WZeg
4 : https://grid004.ct.infn.it:9000/2SPkbdH0D8j2faVBXzU3qQ
5 : https://grid004.ct.infn.it:9000/WwPvzNZAyDd1HhnJkvBGgQ
a : all
q : quit
-----
```

```
$ edg-job-submit --vo gilda  
-r gilda-ce-01.pd.infn.it:2119/jobmanager-lcgpbs-infinite  
helloworld.jdl
```

```
$ cat hostnamerank.jdl
```

```
Type = "Job";  
JobType = "Normal";  
Executable = "/bin/hostname";  
Arguments = "-f";  
StdOutput = "hostname.out";  
StdError = "hostname.err";  
OutputSandbox = {"hostname.err", "hostname.out"};  
RetryCount = 7;  
Rank=(other.GlueCEStateFreeCPUs == 0 ? -other.GlueCEStateWaitingJobs  
: other.GlueCEStateFreeCPUs);  
Requirements = (other.GlueCEPolicyMaxCPUTime<=3600) && (RegExp  
("infn", other.GlueCEUniqueId));
```

1 CPU libre et job de moins de 2 heures:

```
Requirements = other. GlueCEInfoTotalCPUs > 1 &&  
              other. GLUECEPolicyMaxCPUTime > 7200;
```

On peut spécifier un CE particulier avec le JDL:

```
Requirements = other. GlueCEUniqueID ==  
              "lxshare0286 .cern.ch :2119/ jobmanager -pbs -short ";
```



```
$ edg-job-submit --vo gilda povray_pyranet.jdl
```

```
Selected Virtual Organisation name (from --vo option): gilda
```

```
Connecting to host grid004.ct.infn.it, port 7772
```

```
Logging to host grid004.ct.infn.it, port 9002
```

```
*****
```

JOB SUBMIT OUTCOME

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- <https://grid004.ct.infn.it:9000/9OH6fatuhZjHI6CKVdHfKQ>