

EGI Grid

Práctica 1

El objetivo de esta práctica es tomar contacto con el uso de recursos de computación grid en la VO `tut.vo.ibergrid.eu`. Recuerde que estos comandos han de ejecutarse desde el frontend `ui.macc.unican.es`.

Generamos un proxy válido para operar en la VO `tut.vo.ibergrid.eu`:

```
[user@ui ~]$ voms-proxy-init -voms tut.vo.ibergrid.eu
```

- Para obtener información del proxy generado ejecute :

```
[user@ui ~]$ voms-proxy-info -all
```

- Listamos los recursos computación para ejecutar jobs (Computing Element) :

```
[user@ui ~]$ lcg-infosites --vo tut.vo.ibergrid.eu ce
```

- Listamos los recursos de computación de almacenamiento (Storage Element) :

```
[user@ui ~]$ lcg-infosites --vo tut.vo.ibergrid.eu se
```

- Una vez listados los recursos, enviaremos un job a uno de los CE listados. Creamos las plantillas necesarias para ejecutar el job :

```
[user@ui ~]$ cat > hello.jdl << EOF
Executable = "hello.sh" ;
CpuNumber = 1;
StdOutput = "stdout.txt";
StdError = "stderr.txt";
InputSandbox = {"hello.sh"};
OutputSandbox = {"stdout.txt", "stderr.txt"};
Requirements = other.GlueCEUniqueID == "ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg";
EOF
[user@ui ~]$ cat > hello.sh << EOF
#!/bin/sh
echo "Hello World - from $HOSTNAME"
echo -n "It's "
date
EOF
```

- Enviamos el job :

```
[user@ui ~]$ glite-wms-job-submit -a hello.jdl

Connecting to the service https://wms01.ific.uv.es: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.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqmw

=====
```

- Comprobamos el estado del job :

```
[user@ui ~]$ glite-wms-job-status https://wms01.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqnw
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqnw
```

```
Current Status:      Scheduled
```

```
Status Reason:      unavailable
```

```
Destination:        ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg
```

```
Submitted:          Tue Mar 22 19:19:21 2016 CET
```

```
=====
```

```
[carlos@ui ~]$ glite-wms-job-status ?https://wms01.ific.uv.es:9000/\_u\_QD5zc1Ss78keGp0dqnw
```

```
===== glite-wms-job-status Success ===== BOOKKEEPING INFORMATION:
```

```
Status info for the Job : ?https://wms01.ific.uv.es:9000/\_u\_QD5zc1Ss78keGp0dqnw Current Status: Scheduled Status Reason: unavailable Destination: ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg Submitted: Tue Mar 22 19:19:21 2016 CET
```

```
=====
```

```
[carlos@ui ~]$ glite-wms-job-status ?https://wms01.ific.uv.es:9000/\_u\_QD5zc1Ss78keGp0dqnw
```

```
===== glite-wms-job-status Success ===== BOOKKEEPING INFORMATION:
```

```
Status info for the Job : ?https://wms01.ific.uv.es:9000/\_u\_QD5zc1Ss78keGp0dqnw Current Status: Scheduled Status Reason: unavailable Destination: ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg Submitted: Tue Mar 22 19:19:21 2016 CET
```

```
=====
```

```
[carlos@ui ~]$ glite-wms-job-status ?https://wms01.ific.uv.es:9000/\_u\_QD5zc1Ss78keGp0dqnw
```

```
===== glite-wms-job-status Success ===== BOOKKEEPING INFORMATION:
```

```
Status info for the Job : ?https://wms01.ific.uv.es:9000/\_u\_QD5zc1Ss78keGp0dqnw Current Status: Scheduled Status Reason: unavailable Destination: ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg Submitted: Tue Mar 22 19:19:21 2016 CET
```

```
=====
```

```
[user@ui ~]$
```

```
[carlos@ui ~]$ glite-wms-job-status https://wms01.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqnw
```

```
===== glite-wms-job-status Success =====
```

```
BOOKKEEPING INFORMATION:
```

```
Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqnw
```

```
Current Status:      Done(Success)
```

```
Exit code:           0
```

```
Status Reason:      Job Terminated Successfully
```

```
Destination:        ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg
```

```
Submitted:          Tue Mar 22 19:19:21 2016 CET
```

```
=====
```

```
[carlos@ui ~]$ glite-wms-job- https://wms01.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqnw
```

```
glite-wms-job-cancel
```

```
glite-wms-job-list-match
```

```
glite-wms-job-perusal
```

```
glite-wms-job-delegate-proxy glite-wms-job-logging-info glite-wms-job-status
```

```
glite-wms-job-info glite-wms-job-output glite-wms-job-submit
```

```
[carlos@ui ~]$ glite-wms-job-output https://wms01.ific.uv.es:9000/_u_QD5zc1Ss78keGp0dqnw
```

```
Error - Configuration Error
```

```
Output Storage pathname doesn't exist (check the configuration file): /tmp/jobOutput
```

```
[carlos@ui ~]$ glite-wms-job-output --help

WMS User Interface version 3.5.3
Copyright (C) 2008 by ElsagDatamat SpA

Usage: glite-wms-job-output [options] <job Id(s)>

options:
  --help
  --version

  --input, -i    <file_path>
  --dir          <directory_path>
  --proto        <protocol>
  --config, -c  <file_path>
  --vo           <vo_name>
  --list-only
  --nosubdir
  --noint
  --nopurge, -n
  --json
  --pretty-print
  --debug
  --logfile      <file_path>

Please report any bug at:
  alvise.dorigo@pd.infn.it
[carlos@ui ~]$ glite-wms-job-output https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw --dir=$HOME

WMS User Interface version 3.5.3
Copyright (C) 2008 by ElsagDatamat SpA

Usage: glite-wms-job-output [options] <job Id(s)>

options:
  --help
  --version

  --input, -i    <file_path>
  --dir          <directory_path>
  --proto        <protocol>
  --config, -c  <file_path>
  --vo           <vo_name>
  --list-only
  --nosubdir
  --noint
  --nopurge, -n
  --json
  --pretty-print
  --debug
  --logfile      <file_path>

Please report any bug at:
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[carlos@ui ~]$ glite-wms-job-output https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw --dir $HOME

WMS User Interface version 3.5.3
Copyright (C) 2008 by ElsagDatamat SpA

Usage: glite-wms-job-output [options] <job Id(s)>
```

```
options:
```

```
--help
--version

--input, -i    <file_path>
--dir          <directory_path>
--proto       <protocol>
--config, -c  <file_path>
--vo          <vo_name>
--list-only
--nosubdir
--noint
--nopurge, -n
--json
--pretty-print
--debug
--logfile     <file_path>
```

```
Please report any bug at:
```

```
alvise.dorigo@pd.infn.it
```

```
[carlos@ui ~]$ glite-wms-job-output https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw --dir .
```

```
WMS User Interface version 3.5.3
```

```
Copyright (C) 2008 by ElSagDatamat SpA
```

```
Usage: glite-wms-job-output [options] <job Id(s)>
```

```
options:
```

```
--help
--version

--input, -i    <file_path>
--dir          <directory_path>
--proto       <protocol>
--config, -c  <file_path>
--vo          <vo_name>
--list-only
--nosubdir
--noint
--nopurge, -n
--json
--pretty-print
--debug
--logfile     <file_path>
```

```
Please report any bug at:
```

```
alvise.dorigo@pd.infn.it
```

```
[carlos@ui ~]$ glite-wms-job-output --dir . https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw
```

```
Connecting to the service https://wms01.ific.uv.es:7443/glite_wms_wmproxy_server
```

```
=====
```

```
JOB GET OUTPUT OUTCOME
```

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

```
https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw
```

```
have been successfully retrieved and stored in the directory:
```

```
/oceano/gmeteo/users/carlos/carlos__u_QD5zclSs78keGp0dqnw
```

```
=====

[carlos@ui ~]$ ls /oceano/gmeteo/users/carlos/carlos__u_QD5zclSs78keGp0dqnw
stderr.txt  stdout.txt
[carlos@ui ~]$ cat /oceano/gmeteo/users/carlos/carlos__u_QD5zclSs78keGp0dqnw/stdout.txt
Hello World - from da-p8-04
It's Tue Mar 22 19:19:39 CET 2016
```