

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 simple a uno de los CE listados. :

```
[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
```

```
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_QD5zc1Ss78keGp0dqnw

=====

[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_QD5zclSs78keGp0dqnw
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_QD5zclSs78keGp0dqnw

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

Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw
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Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw
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=====

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

Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw
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_QD5zclSs78keGp0dqnw

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

Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqnw
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_QD5zclSs78keGp0dqnw
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_QD5zclSs78keGp0dqnw

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:

alvise.dorigo@pd.infn.it

```
[carlos@ui ~]$ glite-wms-job-output https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqmw --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_QD5zclSs78keGp0dqmw --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:

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```
[carlos@ui ~]$ glite-wms-job-output --dir . https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqmw
```

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_QD5zc1Ss78keGp0dqmw
have been successfully retrieved and stored in the directory:
/oceano/gmeteo/users/carlos/carlos__u_QD5zc1Ss78keGp0dqmw

=====

```
[carlos@ui ~]$ ls /oceano/gmeteo/users/carlos/carlos__u_QD5zc1Ss78keGp0dqmw
stderr.txt  stdout.txt
[carlos@ui ~]$ cat /oceano/gmeteo/users/carlos/carlos__u_QD5zc1Ss78keGp0dqmw/stdout.txt
Hello World - from da-p8-04
It's Tue Mar 22 19:19:39 CET 2016
```