

## 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
```

```
cat <<EOF > job.jdl
Executable = "hostname";
StdOutput = "hostname.out";
StdError = "hostname.err";
OutputSandbox = {"hostname.err", "hostname.out"};
Arguments = "-f";
EOF
```

```
cat hello.jdl
#: the name of the file which will be actually executed
Executable = "hello.sh" ;

CpuNumber = 1;

# the name of the file where standard output stream will be redirected
StdOutput = "stdout.txt";

# the name of the file where standard error stream will be redirected
StdError = "stderr.txt";

# list of local files which will be transferred to
# the remote resource before the execution
InputSandbox = {"hello.sh"};

# list of remote files which will be transferred from the resource
# after the execution
OutputSandbox = {"stdout.txt", "stderr.txt"};
Requirements = ( other.GlueCEUniqueID == "ce.ceta-ciemat.es:8443/cream-sge-ibtut.cg" ||
                other.GlueCEUniqueID == "cream01-egi.bifi.unizar.es:8443/cream-slurm-tutiber" );
```

```
cat hello.sh
#!/bin/sh
echo "Hello World - from $HOSTNAME"
echo -n "It's "
date
```

```

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_QD5zclSs78keGp0dqmw

=====

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

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

Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqmw
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_QD5zclSs78keGp0dqmw

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

Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqmw
Current Status:      Scheduled
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=====

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

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

Status info for the Job : https://wms01.ific.uv.es:9000/_u_QD5zclSs78keGp0dqmw
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_QD5zclSs78keGp0dqmw

===== 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:      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_QD5zc1Ss78keGp0dqnw --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:

alvise.dorigo@pd.infn.it

```
[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_QD5zclSs78keGp0dqmw
```

have been successfully retrieved and stored in the directory:

```
/oceano/gmeteo/users/carlos/carlos__u_QD5zclSs78keGp0dqmw
```

```
=====
```

```
[carlos@ui ~]$ ls /oceano/gmeteo/users/carlos/carlos__u_QD5zclSs78keGp0dqmw
```

```
stderr.txt stdout.txt
```

```
[carlos@ui ~]$ cat /oceano/gmeteo/users/carlos/carlos__u_QD5zclSs78keGp0dqmw/stdout.txt
```

```
Hello World - from da-p8-04
```

```
It's Tue Mar 22 19:19:39 CET 2016
```