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How to enable WeNMR job submission to OSG

This is the procedure to enable a gLite UI to submit jobs to OSG via the SBGrid VO Frontend of the glideinWMS system.

You must follow the instructions at

http://www.uscms.org/SoftwareComputing/Grid/WMS/glideinWMS/doc.prd/components/pool_install.html to install the Condor Submit Node on your SL5/x86_64 gLite UI

I've used the tarballs `condor-7.6.3-x86_64_rhap_5-stripped.tar.gz` and `glideinWMS_v2_5_2.tgz` and run `./glideinWMS_install` after untarring the `glideinWMS_v2_5_2.tgz` selecting the item 5 (user schedd) and so on as described in section 5 of the above link. Do use

`/DC=org/DC=doe grids/OU=Services/CN=glidein/glidein.nebiogrid.org` and

`/DC=org/DC=doe grids/OU=Services/CN=frontend/glidein.nebiogrid.org` respectively for the Collector and Frontend DN in the configuration. See here an example of `condor_config.local` file.

Then, send the DN of the certificate of your gLite UI to the HMS grid managers operating the SBGrid VO Frontend by opening a ticket at the OSG GOC Ticketing System

Start condor by doing, as root:

```
$ /etc/rc.d/init.d/condor start
```

Check things are working by doing (back from your user linux account):

```
$ condor_status -schedd
```

Name	Machine	TotalRunningJobs	TotalIdleJobs	TotalHeldJobs
glidein@glidein.nebi	glidein.ne	2	0	0
ui-wenmr.pd.infn.it	ui-wenmr.p	0	0	0
	TotalRunningJobs		TotalIdleJobs	TotalHeldJobs
	Total	2	0	0

You should see the hostname of you gLite UI listed in the output. In the exampl it was `ui-wenmr.pd.infn.it`

Try now to submit a CSRosetta test job with your enmr.eu VOMS proxy:

```
$ voms-proxy-init -voms enmr.eu:/enmr.eu/csrosetta
$ condor_submit csrosetta.job
Submitting job(s).
1 job(s) submitted to cluster "some number".
```

where the executable is `run-csRosetta`

The `csrosetta.job` file is the Condor analogous of the JDL for gLite. Notice the line `+DESIRED_Sites = "UCSD,SPRACE,Purdue,Michigan"`. It refers to the sites where CSRosetta needed software has been already installed by running a job executing the script `install-csrosetta.sh`. Also Harvard and Nebraska sites have the software installed, but for them the test doesn't work because the `liblfc.so` library is not available for their Debian OS. Nevertheless these two sites are also eligible to run CSRosetta production jobs as far as the scripts do not use `lcg-*` commands requiring interaction with the enmr.eu LFC file catalog.

You can check the status of your job by doing:

```
$ condor_q
```

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```
-- Submitter: ui-wenmr.pd.infn.it : <193.206.210.130:9615?sock=18144_b6d6_2> : ui-wenmr.pd.infn.i
ID      OWNER      SUBMITTED      RUN_TIME ST PRI SIZE CMD
 67.0    verlato      3/6  17:22      0+00:00:00 I  0   0.0  run-csRosetta

1 jobs; 1 idle, 0 running, 0 held
```

When finished, the job will disappear from the condor-q output. You can still get info on it by doing:

```
$ condor_history 67.0 (or -l for verbose output)
ID      OWNER      SUBMITTED      RUN_TIME ST  COMPLETED CMD
 67.0    verlato      3/6  17:22      0+00:00:38 C   3/6  17:22  /home/verlato/s
```

In the output/ directory you will see the csRosetta.67.0.err/log/out files plus the other output files as expected from the csrosetta.job directives.

Useful links:

- <http://www.uscms.org/SoftwareComputing/Grid/WMS/glideinWMS/doc.prd/index.html>
 - <http://hepuser.ucsd.edu/twiki2/bin/view/Main/GlideinFrontend1201>
-

How to account WeNMR jobs submitted to OSG with Gratia

This is the procedure to enable Gratia sensors in the Condor Submit Node

You must follow the instructions at

<https://twiki.grid.iu.edu/bin/view/Accounting/ProbeConfigGlideinWMS#Installation>

Instead of use yum install try the following:

```
[root@ui-wenmr ~]# wget http://koji-hub.batlab.org/mnt/koji/packages/gratia-probe/1.10/0.7.osg.el5.noarch.rpm gratia-probe-1.10-0.7.osg.el5.noarch.rpm
[root@ui-wenmr ~]# rpm -Uvh --nodeps gratia-probe-common-1.10-0.7.osg.el5.noarch.rpm gratia-probe-1.10-0.7.osg.el5.noarch.rpm
```

Then register you submit host to <https://oim.grid.iu.edu/oim/home> and modify the `/etc/gratia/condor/ProbeConfig` file and the `condor_config.local` as described in the instructions.

The "Non-Standard Condor Install" instructions do not work. I've modified manually the file `/etc/cron.d/gratia-probe-condor.cron` as below:

```
[root@ui-wenmr ~]# cat /etc/cron.d/gratia-probe-condor.cron
CONDOR_CONFIG=/opt/glidecondor/etc/condor_config
PATH=/opt/glidecondor/bin:/opt/glidecondor/sbin
0,15,30,45 * * * * root /usr/share/gratia/common/cron_check /etc/gratia/condor/ProbeConfig && /usr/share/gratia/common/cron_check
```

Do not forget to enable the gratia probes cron by doing:

```
[root@ui-wenmr ~]# service gratia-probes-cron start condor
```

You can check if your probe is working looking at the log files in `/var/log/gratia/`.

Accounting records produced by your probe can be displayed e.g. at http://gratiaweb.grid.iu.edu/gratia/xml/glidein_hours_bar_smry, putting your probe name (e.g. `condor:ui-wenmr.pd.infn.it`) in the Variables table and pressing the "Query again" button.

Many other interesting histograms are available from the "Glidein and Campus Grid Bar Graphs" top menu. All of them can be queried by selecting User, VO and also VO group/role (named role in the Variables table). E.g., by putting "csrosetta" in the role box and pressing the "Query again" button, you'll see the records of jobs submitted with the user proxy created with `voms-proxy-init -voms enmr.eu:/enmr.eu/csrosetta`.

-- MarcoVerlato - 2012-02-29

This topic: WeNMR > EnablingOsgSubmission

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