

This wiki page is based on the slides made by Di for the WLCG Collaboration Workshop (January 2007). Thanks to Di :-)

## Important places and files

- `${INSTALL_ROOT}/glite/etc/config/glite-*.cfg.xml`: to verify if the conversion with the tool YAIM2gLiteConverter was ok. This tool transforms Yaim configuration values to gLite XML configuration files:
  - ◆ `/opt/glite/etc/config/glite-wms.cfg.xml`: configuration file for the WMS.
  - ◆ `/opt/glite/etc/config/glite-lb.cfg.xml`: configuration file for the LB.
- Some other important configuration files:
  - ◆ `/opt/glite/etc/glite_wms.conf`: general configuration file.
  - ◆ `/opt/glite/etc/glite_wms_wmproxy_httpd.conf` and `/opt/glite/etc/glite_wms_wmproxy.gacl`: configuration files for the WMproxy.
  - ◆ `/opt/condor-c/etc/condor_config`: global configuration file for Condor.
- grid-mapfile related files:
  - ◆ To map or to blacklist an user: `/opt/edg/etc/grid-mapfile-local`

## What is wrong with my gLite WMS

### Error while calling the "NSClient::multi" native api AuthenticationException: Failed to establish security context...

- Check if your DN is in the `/etc/grid-security/grid-mapfile` file on the WMS.
- Restart the network server (possibly).

### Many jobs stay in running or ready status forever

- Probably the log monitor daemon is dead and could not be restarted
  - ◆ Increase the LogLevel value in the LogMonitor section of the `/opt/glite/etc/glite_wms.conf` file.
  - ◆ Restart the log monitor daemon to check which log file causes the log monitor to crash.
  - ◆ Remove the corrupted log file from `/var/glite/logmonitor/CondorG.log` directory.
- Problem with the script `/opt/lcg/sbin/grid_monitor.sh`.
- Daemon interlogd got stuck, so it should be restart.
  - ◆ A workaround patch is available.

### glite-job-logging-info shows error message "Cannot take token!"

- Check that the `edg-gridftp-clients` or `glite-gridftp-clients` package are installed on the WNs.
- Check if it is possible to do some globus-url-copy of files to and from WMS on WNs.
- Proxy expired before job executing and could not be renewed.
- Job submitted to batch system but BLAH did not get submission informations, so it submitted the job again, and the token was removed by the first running one.

### "Got a job held event, reason: Spooling input data files"

- It may fail with "Globus error 7: authentication with the remote server failed".
- Race condition between the gridmanager on machine A querying the job status of the job on machine B and the schedd on machine B releasing the job after file stage-in, fixed in later version of condor (which version ?).

## **glite-lb-bkserverd: "Database call failed (the table long\_fields is full)" in /var/log/message**

- The database of the LB reached 4GB limit.
- May cause incomplete log events.
- Increase them by executing the following commands in MySQL:

```
alter table short_fields max_rows=1000000000;  
alter table long_fields max_rows=550000000;  
alter table states max_rows=95000000;  
alter table events max_rows=175000000;
```

## **glite-job-logging-info shows: "Cannot read JobWrapper output, both from Condor and from Maradona"**

- Similar to the LCG workload management system. More informations can be found [here](#).

## **glite-job-logging-info shows: "Got a job held event reason: The PeriodicHold expression 'Matched = TRUE && CurrentTime > QDate + 900' evaluated to TRUE"**

- Condor could not submit the job to CE in more than 900 seconds.
- Probably Condor-C on CE could not be launched:
  - ◆ because the authentication failed.
  - ◆ The previous launcher jobs failed but still in condor queue. Remove it by *condor\_rm*.
  - ◆ IP address is incorrect in */etc/hosts*.
- Possibly because of firewall.

## **glite-job-logging-info shows "Got a job held event, reason: Error connecting to schedd..."**

- Condor met timeout when connecting sched on gLite CE.
- Possibly because of unstable network, or a disk fills up somewhere.

## **glite-job-logging-info shows "Got a job held event, reason: Attempts to submit failed"**

- It means that the job could not be successfully handed over the batch system by the non-privileged user that resulted from the GRAM/LCMAPS.
- For example, BLParser not running on batch system head node.

## **Failed to load GSI credential: edg\_wl\_gss\_acquire\_cred\_gsi() failed**

- locallogger puts log event under */tmp* (*/var/glite/tmp* in version 3.1), but *tmp* is full.

## **Unable to delegate the credential to the endpoint: https://**

- VOMS extension of your proxy is not in */opt/glite\_etc/glite\_wms\_wmproxy.gacl*
- VOMS extension missing in your proxy and WMproxy is configured only to support VOMS proxy.
- WMproxy.log and lcmsmaps.log can give some clues.

## Unable to register the job to the service: https://

- LB or LBProxy is too busy, increase the timeout.
- LB is in bad status, restart it.

## Lot of dglod files in */var/glite/log* directory

- Restart the *glite-lb-locallogger* service.

## Performance and stability improvement on the LB and WMS nodes

See the work log related to the gLite WMS 3.1 here.

## Split */var/glite* into several partions of hard disks

- Use the script *WMS-post-install\_found in \_/root* on the WMS node.
- This script is doing the migration of the middleware log files, sandbox and MySQL database on */data01*, */data02* and */data03* partitions.

## Deploy standalone LB

- One standalone LB (like *rb201*) can server several WMS.
- Create a file */opt/glite/etc/LB-super-users* containing the DN of allowd WMS. You can add the DN of your certificate there in order to debug and get log informations of other users's jobs.
- Add the option "*--super-users-file /opt/glite/etc/LB-super-user*" in the startup line of the *bkserverd* daemon, i.e. in file */opt/glite/etc/init.d/glite-lb-bkserverd* (see variable "super" in the script).
- Add the following line in the WorkloadManagerProxy of file */opt/glite/etc/glite\_wms.conf*:

```
LBServer = "rb201.cern.ch:9000";
```

- Restart the *glite-wms-wmproxy* service.

## Reduce the planner number per DAG job

- In case there are too many DAG jobs.
- For example, add "*DagmanMaxPre=2*" in the JobController section of file */opt/glite/etc/glite\_wms.conf* to reduce it to 2.

## Increase the timeout

- Set *GLITE\_WMS\_QUERY\_TIMEOUT* and *GLITE\_PR\_TIMEOUT* variables in */etc/glite/profile.d/glite-setenv.\** and add the line "*PassEnv GLITE\_PR\_TIMEOUT*" in */opt/glite/etc/glite\_wms\_wmproxy\_httpd.conf*.

## Remove the pending export of job registrations into JP

- If this service is not required by the experiments, you can disable this option by removing the string *\$maildir* in */opt/glite/etc/init.d/glite-lb-bkserverd* startup script. This service must be restarted. It will prevent the "no more inodes available in */tmp*" error message...

-- YvanCalas - 09 Mar 2007

This topic: LCG > GLiteWMSTroubleshooting

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