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gLite Logging and Bookkeeping Service

Daemons running

The following daemons need to be running:

- Multiple instances of `/usr/bin/glite-lb-bkserverd`
- Multiple instances of `/usr/bin/glite-lb-interlogd`
- `/usr/bin/glite-lb-notif-interlogd`
- `/usr/bin/glite-lb-logd`

Init scripts and how to use them

There is a global init script for all gLite services running on the server:

- `/etc/init.d/gLite`

There are also init scripts for individual segments of the L&B event delivery and processing chain:

- `/etc/init.d/glite-lb-bkserverd` for the L&B server
- `/etc/init.d/glite-lb-harvester` for the L&B harvester
- `/etc/init.d/glite-lb-locallogger` for L&B's local logger and interlogger

Location and description of configuration files

Configuration files for the L&B service are:

- `/etc/glite-lb/lcas.db` defining the location of the lcas plugin
- `/etc/glite-lb/log4crc` defining the behavior and granularity of log4c logging
- `/etc/glite-lb/glite-lb-harvester.conf` specifying the configuration of the L&B harvester
- `/etc/glite-lb/msg.conf` defining the configuration (brokers, permissible topic prefixes, plugin location) for messaging over ActiveMQ
- `/etc/glite-lb/glite-lb-authz.conf` giving authorization settings for the L&B server

Configuration files added with EMI-2

- `/etc/glite-lb/site-notif.conf` defining permanent notification registrations to be maintained by the `glite-lb-notif-keeper`

Configuration files added with EMI-3

- `/etc/glite-lb/html-header.html` giving an optional style/header for L&B's HTML output

Location and description of log files.

All logging information for L&B is found in:

- `/var/log/messages`

Log messages follow the *common log format*

Open ports

- 2170: standard BDII
- 9000: job status and logging-info queries
- 9001: event gathering from LB loggers (WMS, CE)
- 9002: local logger listening
- 9003: WS client queries

Description of existing cron jobs

- `glite-lb-purge.cron` ensures regular purging of old jobs
- `locallogger.cron` ensure reloading of CRLs by the interlogger
- `bdi-proxy` BDII proxy
- `fetch-crl` keeps CRLs up-to-date
- `glite-lb-notif-keeper` maintains site-specific notification registrations

Description of existing utility scripts

- `/usr/bin/glite-lb-dump` used to dump the contents of the L&B database for a given period of time
- `/usr/bin/glite-lb-load` used to load events dumped with `/usr/bin/glite-lb-dump`
- `/usr/bin/glite-lb-purge` used to purge jobs from the L&B database

Security information

Access control Mechanism description (authentication & authorization)

The authentication method is based on trusted digital certificates. Depending on the server configuration and action requested, the users may be required to present VOMS attributes in their proxy certificates.

L&B version 3.0 server introduces new authorization features, controlled through config file `/etc/glite-lb/glite-lb-authz.conf`

How to block/ban a user

Banning individual users isn't possible in LB.

Network Usage

By default L&B server listens on port 9000 for incoming queries, 9001 for events, and 9003 for WS interface queries. The `glite-lb-logd` daemon listens on port 9002.

L&B proxy communicates over two UNIX sockets: `/tmp/lb_proxy_server.sock` (queries) and `/tmp/lb_proxy_store.sock` (incoming events).

Firewall configuration

The firewall configuration should allow access to these ports:

- 9000/TCP, 9001/TCP and 9003/TCP.
- 2170/TCP for the resource BDII service.

Security recommendations

None

Security incompatibilities

None currently known

Change of certificates

```
cp /etc/grid-security/hostcert.pem ~glite/.certs/  
cp /etc/grid-security/hostkey.pem ~glite/.certs/  
chown glite:glite ~glite/.certs/host*.pem
```

```
/etc/init.d/glite-lb-bkserverd restart  
/etc/init.d/glite-lb-locallogger restart
```

Note, glite user and its home directory is created in post-installation scripts of `glite-lb-server`, `glite-lb-logger`, `glite-lb-harvester` or `glite-px-proxyrenewal`. Home directory location had been changed in EMI but it remains the same across upgrades. **Home directory locations for glite user** can be:

- `/home/glite` (in pre-EMI or glite user created by yaim before installation of L&B and later upgrades)
- `/var/glite` (in EMI-2 and later upgrades)
- `/var/lib/glite` (in EMI-3)

List of externals packages that are not maintained by the supported OS.

None at installation/runtime

-- ZdenekSustr - 19-Apr-2011

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