

RB/WMS Monitoring Tool

In the following, I assume that:

- lxb2007 is a UI, and a HTTP server is running on it.
- rb101 is a gLite WMS or a LCG RB node.

Content of the tarball `Monitoring.tar.gz`

The tarball must be installed on your HTTP server/UI (lxb2007 in this example). It contains:

- `~/Monitoring/bin`: contains the bash script `monitoring.sh` executed to generate the HTML file containing the tables for the WMS and the gLite WMSLB, and the figures.
- `~/Monitoring/cert`: contains the certificate and private key files (ie. `hostcert.pem` and `hostkey.pem`) for the host running the `monitoring.sh` script.
- `~/Monitoring/data`: contains the data files collected from the gLite WMS and LCG RBs nodes. It also contains the gnuplot files generated during the execution of the `monitoring.sh` script.
- `~/Monitoring/html`: contains the html files generated during the execution of the `monitoring.sh` script.
- `~/Monitoring/images`: contains the images generated by gnuplot.
- `~/Monitoring/sensors`: contains 3 files:
 - ◆ `monitoring`: it is the definition of a cron job which must be put in `/etc/cron.d` on the gLite WMSLB or LCG RB host.
 - ◆ `monitoring.sh`: This file must be put in the directory `/root/Monitoring` on the gLite WMSLB or LCG RB host.
 - ◆ `jobstreated.sh`: This file must be put in the directory `/root/Monitoring` on the gLite WMSLB or LCG RB host.

Configuration of the gLite WMS / LCG RBs nodes

* File `/opt/edg/etc/grid-mapfile-local` must contain the DN of the machine running the `monitoring.sh` (eg. `"/C=CH/O=CERN/OU=GRID/CN=host/lxb2007.cern.ch" .dteam`). The `grid-mapfile` must be regenerated as well:

```
/opt/glite/yaim/scripts/run_function site-info.def config_mkgridmap
```

This will allow the UI to do a `globus-url-copy` on all your gLite WMS / LCG RBs nodes.

Configuration of the HTTP server / UI node

- Create directory `/var/www/html/monitoring/` on the HTTP server (check the configuration of your server).
- I put the content of the tarball in a local home directory (`/home/yvan` in my case). But it can be in `/root` as well...
- I assume that user `yvan` can copy files in directory `/var/www/html/monitoring`. Modify file `/etc/sudoers` by adding the following line:

```
yvan    ALL= (ALL)    NOPASSWD: ALL
```

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- Edit file `~/Monitoring/bin/monitoring.sh` and put the name of your own machines (cf variables `list_RB` and `list_WMS`). You can also put some comments for these names (see section "Define some string constants at the beginning" in the code).

* You can configure a cron job to execute the `monitoring.sh` script on the UI. For the time being, I start the script with the following command:

```
cd ~/Monitoring/bin
nohup ./monitoring.sh &
```

There is a 'sleep 7m' in this script, so this script is awoken every 7mn. If you want to make a cron job, you must remove this line...

Contact

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-- YvanCalas - 16 Feb 2007

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