

Table of Contents

HLRmon for WeNMR.....	1
Management instructions.....	1
Installation instructions.....	1

HLRmon for WeNMR

HLRmon web page: <https://hmrmon-01.pd.infn.it:50080>

Access reserved to registered users

Management instructions

Add data of sites not using DGAS sensors

- after receiving data from administrators of sites, use the following script to insert data into DB hlrmon (see instructions inside the script):
 - ◆ `hmrmon-external_data.sh`

Add a user

Users are identified by their certificates, signed by trusted CAs. To register a new user, add an entry in mysql DB on hmrmon-01; example:

```
mysql -h 127.0.0.1 -u root -p
mysql> use hmrmon;
mysql> INSERT INTO users (dn, u_role,u_where, validity, user_confirm, admin_confirm, enabled, ema
```

A new user can sign up via web page. As a new user sign up, a number or new rows appear on this 'users' table, one row for each role selected by the user. Every line waiting for authorization has the field `enabled=0`. To authorize that role for the user, by hand, you can simply update the value putting `enabled=1`.

Installation instructions

Followed these guides:

- https://dgas.cnaf.infn.it/hmrmon/install_guide_1-21-1.html

Steps executed on hmrmon-01.pd.infn.it (SL5 x86_64)

- downloaded and install <http://dgas.cnaf.infn.it/hmrmon/php-smarty-2.6.17-1mdv2007.1.noarch.rpm>
- installed and configured `ig_UI_noafs` following this instructions:
 - ◆ http://igrelease.forge.cnaf.infn.it/doku.php?id=doc:guides:install-3_2
- downloaded and installed, using yum to resolve dependencies:
 - ◆ <http://dgas.cnaf.infn.it/hmrmon/hmrmon-web-1.21-1.i386.rpm>
 - ◆ <http://dgas.cnaf.infn.it/hmrmon/hlr2sql-1.21-1.i386.rpm>
- add mysql passwords and grants

```
chkconfig mysqld on
service mysqld start
/usr/bin/mysqladmin -u root password 'rootpw'
/usr/bin/mysqladmin -u root -h hmrmon-01.pd.infn.it password 'rootpw'
mysql -h 127.0.0.1 -u root -prootpw
mysql> create database hmrmon;
mysql> grant all on hmrmon.* to 'hmrmonuser'@'localhost' identified by 'hmrmon-pw';
mysql> grant all on hmrmon.* to 'hmrmonuser'@'hmrmon-01.pd.infn.it' identified by 'hmrmon-pw';
mysql> flush privileges;

mysql -u hmrmonuser -p hmrmon < /opt/hmrmon/hmrmon_initial_schema_and_data_prod.sql
```

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- edited /opt/hlrmon/db_conn.conf changing:
 - ◆ dbprm={'dbhost':'hlrmon-01.pd.infn.it','dbname':'hlrmon','dbuser':'hlrmonuser','dbpwd':'hlrmon-pw'}
- edited /opt/hlrmon/dgas2hlrmon.conf changing:
 - ◆ hlrdict={'2l_HLR':'grid-2lhlr-01.pd.infn.it'}
 - ◆ HLRMON_DB_UPDATE=1
 - ◆ dict(select_field= "CASE SUBSTRING(SUBSTRING_INDEX(griduser,'/',3), LENGTH(SUBSTRING_INDEX(griduser, '/', 2)) + 2) WHEN 'DC=test' THEN 'Test' ELSE 'CAs' END",
- last line is a fake: it should be used to aggregate accounting data by different CAs, but I don't know which are enmr.eu CAs, so I leave only one a void group (Test) and a general group (named CAs)
- on the 2nd level HLR, grid-2lhlr-01.pd.infn.it, it's necessary to allow hlrmon-01 to access data:

```
[grid-2lhlr-01]#/opt/glite/sbin/glite-dgas-hlr-addadmin -a "/C=IT/O=INFN/OU=Host/L=Padova/CN=hlrmon"
```

- test:

```
[hlrmon-01]#glite-dgas-hlr-query -H grid-2lhlr-01.pd.infn.it -Q sqlCsv -A "select * from jobTrans"
[hlrmon-01]#cd /opt/hlrmon
[hlrmon-01]#./dgas2hlrmon.py 20110104 1
```

- edited /var/www/html/hlrmon/include/config.php changing:
 - ◆ DB stuff
 - ◆ server URL
 - ◆ smarty_dir directory
 - ◆ the server_dir
 - ◆ The registration_email (the address where the requests from new users are sent)
 - ◆ The web title of the HLRmon instance
- edited /etc/php.ini adding:
 - ◆ ; HLRMon
 - ◆ include_path = ".:var/www/jpgraph-1.19:/usr/share/pear:/usr/share/smarty/"
- edited /etc/httpd/conf.d/ssl.conf changing:
 - ◆ Listen 50080
- edited changing:
 - ◆ <VirtualHost 193.206.210.156:50080>
 - ◆ ServerName hlrmon-01.pd.infn.it
 - ◆ SSLCertificateFile /etc/grid-security/hostcert.pem
 - ◆ SSLCertificateFile /etc/httpd/conf/ssl.crt/host_certificate
 - ◆ SSLCACertificatePath /etc/grid-security/certificates
- add administrator user

```
mysql -h 127.0.0.1 -u root -p
mysql> use hlrmon;
mysql> INSERT INTO users (dn, u_role,u_where, validity, user_confirm, admin_confirm, enabled, ema
mysql> INSERT INTO users (dn, u_role,u_where, validity, user_confirm, admin_confirm, enabled, ema
```

- get site information:

```
cd /opt/hlrmon/utilities
./get_site_status.py
```

- edit /etc/sudoers and comment the line:
 - ◆ # Defaults requiretty

- started http

```
chkconfig httpd on
service httpd start
```

- get vo information

```
cd /opt/hlrmon/utilities
./get_vo_disciplines.py
cd /var/www/html/hlrmon/report/
./get_discipline.sh
```

- got this error:
 - ◆ Error A plot has an illegal scale. This could for example be that you are trying to use text autoscaling to draw a line plot with only one point or that the plot area is too small. It could also be that no input data value is numeric (perhaps only '-' or 'x')
- edited /etc/cron.d/hlrmon-plots.cron changing:
 - ◆ 30 7 * * * root cd /var/www/html/hlrmon/report && ./get_discipline.sh > /dev/null 2>&1
- edited /etc/cron.d/hlrmon.cron changing: * 15 4 * * * root cd /opt/hlrmon && ./dgas2hlrmon.py
`/bin/date +%Y%m%d` 40

-- MarcoVerlato - 2012-03-08

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