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# HLR Server

## Documentation

- Sensors Guide
- Service Guide 0.6
- Service Guide 4.0.13\_1.1
- Test Plan

## IGI Documentation

### Prerequisites

#### Hardware Requirements

The HLR server host should be an real or virtual host having an optimal disk access.

The suggested requirements are:

- processor with 4 or 8 cores
- 8GB RAM or better 16GB
- minimum 200 GB of space for a first level HLR. (check your database actual dimension)

If you will use a virtual host ensure you are not using virtio to access to the mysql storage DB. Please use a physic partition.

#### Check the FQDN hostname

Ensure that the hostnames of your machines are correctly set. Run the command:

```
hostname -f
```

#### Disabling SELinux

Please remember to fully disabling SELinux. Disabling will completely disable all SELinux functions including file and process labelling. In RedHat Enterprise, edit `/etc/selinux/config` and change the `SELINUX` line to `SELINUX=disabled`:

```
# disabled - No SELinux policy is loaded.  
SELINUX=disabled
```

## Repository Settings

### IMPORTANT NOTE:

- If present remember to **disable** the `dag.repo` if it is enabled.

```
cd /etc/yum.repos.d/  
mv dag.repo dag.repo.disabled
```

### Get the repos file:

You have to download the correct repository file for HLR Server. EPEL, and EMI repos has default and IGI-EMI repo.

```
cd /root
wget http://download.fedoraproject.org/pub/epel/5/i386/epel-release-5-4.noarch.rpm
wget http://emisoft.web.cern.ch/emisoft/dist/EMI/2/sl5/x86_64/base/emi-release-2.0.0-1.sl5.noarch.rpm
yum localinstall *.rpm
wget http://repo-pd.italiangrid.it/mrepo/repos/igi/sl5/x86_64/igi-cert-emi.repo -O /etc/yum.repos.d/igi-cert-emi.repo
wget http://repo-pd.italiangrid.it/mrepo/repos/egi-trustanchors.repo -O /etc/yum.repos.d/egi-trustanchors.repo
```

### If you obtain this error:

```
warning: rpmts_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID df9e12ef
```

```
Public key for emi-release-2.0.0-1.sl5.noarch.rpm is not installed
```

You have to put the variable `gpgcheck=0` in `/etc/yum.conf`

```
[~]# cat /etc/yum.conf

[main]
cachedir=/var/cache/yum
keepcache=0
debuglevel=2
logfile=/var/log/yum.log
distroverpkg=redhat-release
tolerant=1
exactarch=1
obsoletes=1
gpgcheck=0
plugins=1

metadata_expire=2h
installonly_limit=4

# PUT YOUR REPOS HERE OR IN separate files named file.repo
# in /etc/yum.repos.d
```

## Installation:

### CAs installation:

- Install CAs on ALL profiles:

```
yum install ca-policy-egi-core
```

### Service installation

- Install the HLR Server metapackage, containing all packages needed by this service:

```
yum install igi-hlr
```

## Configure the service:

**YAIM Variables:**

The Mandatory Variables for the HLR Server are:

Name	Possible Value	Description
NTP_HOSTS_IP	131.154.1.53 131.154.1.103 pool.ntp.org	This variable is useful to configure the NTP in the HLR host
MYSQL_PASSWORD	D1ffiCulPassW0rd	This variable is used to configure the Mysql root Password
DGAS_HLR_DB_PASSWORD	Hlr-1PassW0rd	This variable is used to configure the dgas Password

Other useful variables can be found in /opt/glite/yaim/examples/siteinfo/services/hlr file.

**Configuring HLR**

```
/opt/glite/yaim/bin/yaim -c -d 6 -s <site-info.def> -n HLR 2>&1 | tee /root/conf_HLR.`hostname` -s
```

# Certification

## Testing reports SL5

- Release 4.0.15-0
- Release 4.0.13-0

## Testing Report SL6

- Release 4.0.15-0
- Release 4.0.13-0

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