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Introduction

This page describes how the MRTG monitoring for the WLCG Squids is configured and how to make changes.

Setup

Cron jobs:

As squidmon user:

```
% crontab -l
# Updating of GOCDB and OIM squid records
40 */3 * * * [ "`cl_status rscstatus`" == "all" ] || exit; /home/squidmon/scripts/grid-services/g
44 */3 * * * [ "`cl_status rscstatus`" == "all" ] || exit; /home/squidmon/scripts/all/makeConfig.

# Updating MRTG monitoring that uses GOCDB and OIM records
*/5 * * * * [ "`cl_status rscstatus`" == "all" ] || exit; /home/squidmon/scripts/all/mrtg_plots.p
```

Retrieving information from GOCDB / OIM

A cron job run every 3 hours:

```
40 */3 * * * [ "`cl_status rscstatus`" == "all" ] || exit; /home/squidmon/scripts/grid-services/g
```

This creates a file called `/home/squidmon/www/grid-squids.json` which contains a list of the squid services, the site name and the monitoring port:

```
% head /home/squidmon/www/grid-squids.json
{
  "cvmfs-px4.cr.cnaf.infn.it": {
    "source": "egi",
    "name": "INFN-T1",
    "port": 3401
  },
  "squid1.ppgrid1.rhul.ac.uk": {
    "source": "egi",
    "name": "UKI-LT2-RHUL",
    "port": 3401
  }
}
```

The information is taken from the GOCDB and OIM. The script then checks and exception list and modifies the list if necessary before saving the file. The field `source` will either be `egi` if the squid came from the GOCDB, `osg` if the squid came from OIM and `exception` if it came from the exception list.

Adding exceptions

Exceptions can be added to `/home/squidmon/conf/all`

```
% cat exceptions.txt
#####
#
# This file contains a list of exceptions for the squid monitoring
#
# ADD <site> <alias> <port>
# Will add (or overwrite if alias already exists) squid
#
# REMOVE <alias>
# Will remove the listed alias from being monitored
# Will print a warning if alias doesn't exist
#
#####
ADD CERN-PROD ca-proxy.cern.ch 3401
REMOVE lcg0679.gridpp.rl.ac.uk
```

Creating config files

A cron job run every 3 hours and 4 minutes after the information has been updated from the GOCDB/OIM:

```
44 */3 * * * [ "`cl_status rscstatus`" == "all" ] || exit; /home/squidmon/scripts/all/makeConfig.
```

This creates the .cfg files and puts them in:

```
% ls /home/squidmon/etc/all/
ANLASC-squid.cfg      Australia-ATLAS_1.cfg  CA-VICTORIA-WESTGRID-T2.cfg  DukeT3_SQUID.cfg  GRIF
ANLASC-squid.ok      Australia-ATLAS_1.ok  CA-VICTORIA-WESTGRID-T2.ok  DukeT3_SQUID.ok  GRIF
Australia-ATLAS_0.cfg  Australia-ATLAS.cfg  DESY-ZN.cfg                  FMPHI-UNIBA.cfg  IN2P
Australia-ATLAS_0.ok  Australia-ATLAS.ok   DESY-ZN.ok                   FMPHI-UNIBA.ok  IN2P
```

MRTG plots

A cron job run every 5 minutes:

```
# Updating MRTG monitoring that uses GOCDB and OIM records
*/5 * * * * [ "`cl_status rscstatus`" == "all" ] || exit; /home/squidmon/scripts/all/mrtg_plots.p
```

The script is relatively straight forward, it

Webpage

The index.html file is created by hand.

-- AlastairDewhurst - 2015-12-09

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