

Table of Contents

Service Availability Monitoring in Pre-Production.....	1
Overview.....	1
Client configuration details.....	1
Sensor configuration details.....	2
Use and Operation.....	3

Service Availability Monitoring in Pre-Production

Overview

The submission of SAM tests to PPS sites is currently done at CERN. Results are published in the production database and shown through the following displays

- <https://lcg-sam.cern.ch:8443/sam-pps/sam.py> (Certified PPS sites)
- <https://lcg-sam.cern.ch:8443/sam-pps-uncert/sam.py> (Uncertified PPS sites)

Client configuration details

The SAM client for PPS is installed on `lxb1908.cern.ch` in the directory `/opt/lcg/same/client/`

While the SAM client is installed in root space on `lxb1908`, the UI used for tests submission **is not** the one available on that machine:

We use instead the AFS UI defined in `> source /afs/cern.ch/project/gd/egee/glite/ui_PPS/etc/profile.d/grid_env.csh`

The client configuration files we customized for PPS are:

- `/opt/lcg/same/client/etc/same.conf` where in particular we changed the value of `common_filter` `publisher_wsdl` and `query_wsdl`

```
> cat /opt/lcg/same/client/etc/same.conf
# Default configuration for SAME

[DEFAULT]
# Settings for locations
workdir=%(home)s/.same
logdir=%(same_home)s/var/log
resdir=%(same_home)s/var/results
secresdir=%(same_home)s/var/results-secure
webdir=%(same_home)s/web
cachedir=%(same_home)s/var/cache

# Logging levels:
# CRITICAL, ERROR, WARNING, INFO, DEBUG, NOTSET
# Logging level for the log file
loglevel=INFO
# Logging level for console messages
verbosity=CRITICAL

[sensors]
common_attrs="sitename nodename inmaintenance"
#common_filter="type=PPS ismonitored=y"
common_filter="ismonitored=y"
CE_filter="serviceabbr=CE"
gCE_filter="serviceabbr=gCE"
FTS_filter="serviceabbr=FTS"
FTS_attrs="sitename nodename inmaintenance tier"
SE_filter="serviceabbr=SE"
SRM_filter="serviceabbr=SRM"
LFC_filter="serviceabbr=LFC voname=ops"
host-cert_attrs="nodename serviceabbr"
host-cert_filter="serviceabbr=FTS,gCE,LFC,VOMS,CE,SRM,gRB,MyProxy,RB,SE,RGMA"

[statuscode]
```

```
ok=10
info=20
notice=30
warning=40
error=50
critical=60
maintenance=100
```

```
[submission]
vo=ops
test_timeout=300
```

```
[scheduler]
max_processes=10
default_timeout=1800
shell=/bin/sh
```

```
[webservices]
publisher_wsdl=http://lcg-sam.cern.ch:8080/same-ws/services/WebArchiver?wsdl
query_wsdl=http://lcg-sam.cern.ch:8080/same-ws/services/Database?wsdl
# edit the line below if you want to publish to old-style SFT webservice
sft_publisher_url=http://lxb2070.cern.ch:8083/sft/publishTuple
```

- /opt/lcg/same/client/sensors/common/config.sh , shown below

```
/opt/lcg/same/client/sensors/common
[root@lxb1908 common]# cat config.sh
SAME_PREF_SE_LIST="$SAME_HOME/sensors/common/prefSE.lst"
SAME_GOOD_SE_FILTER="nodename=grid007g.cnaf.infn.it"

SAME_PREF_LFC_LIST="$SAME_HOME/sensors/common/prefLFC.lst"
SAME_GOOD_LFC_FILTER="serviceabbr=LFC type=PPS status=Certified tier=0,1 servicestatus=ok service"
```

Sensor configuration details

The particular sensor configuration for PPS is kept in the afs directory

[/afs/cern.ch/project/gd/egee/sam-pps](#)

The submission framework for PPS has been customised to use different RBs/informationssystem + a particular SE. Several bash scripts and configuration files are used: the whole of them is available in [/afs/cern.ch/project/gd/egee/sam-pps](#)

<i>file</i>	<i>function</i>	<i>notes</i>
glite_wmsui_cern_pps.conf	It points to the WMS used to submit SAM tests	a gLite WMS is used to submit both to LCG SEs and gLite CEs. Therefore the content of CE-config.sh had to be changed with respect to the version distributed in order not to use the standard settings of the PPS UI
CE-config.sh	Commands and filters to be used by the CE sensor	with respect to the "standard" CE sensor configuration, here glite_wmsui_cern_pps.conf file is used instead of the default UI settings; <i>edg</i> -commands have been replaced by the <i>glite</i> - ones, in order to use the gliteWMS and a particular SE has been taken as the reference SE, which belongs both to production and PPS grids
gCE-config.sh	Commands and filters to be used by the gCE sensor	with respect to the "standard" gCE sensor configuration, here glite_wmsui_cern_pps.conf file is used instead of the default UI settings; a

		particular SE has been taken as the reference SE, which belongs both to production and PPS grids
instance-setenv.sh	Environment settings needed for the submission to PPS	In particular the "HOME" directory of the PPS installation, the SAM working directory and the UI to use are defined here. The first two have to be changed if a new instance is created out of a copy of these scripts
instance-setenv.csh	Environment settings needed for for the submission to PPS	Same as above. This comes handy to run manual tests if you use (t)csh
apply-sensor-config.sh	Specific environment settings needed by the sensors	So far only CE and gCE sensors need a variable to be set to make them use, respectively, gCE-config.sh and gCE-config.sh instead of the standard sensor configuration shipped with the SAM client
create-proxy.sh	Utility to create the 'ops' proxy using the secondary certificate	This has to be changed if you happen not to be Antonio Retico ;-)
submit-sam-tests-pps.sh	It submits one-shot SAM tests to all PPS sites	Can be used for all sensors. It gets the sensor code in input
publish-submit-sam-tests-pps.sh	Publishes available results of the previous tests and submits new ones to all PPS sites	Can be used for CE and gCE sensors. It gets the sensor code in input
sam-status.sh	It retrieves the status of tests previously submitted to PPS sites.	Useful for manual checks. Can be used for CE and gCE sensors. It gets the sensor code in input
sam-publish.sh	It publishes tests previously submitted to PPS sites.	Useful for manual checks. Can be used for CE and gCE sensors. It gets the sensor code in input
one-phase-sam-tests.sh	Submits in a sequence all the supported one-shot SAM tests to all PPS sites	Good to be used in cronjobs. It produces detailed logs of all the operations done. Currently supports SE, SRM, LFC, host-cert sensors
two-phase-sam-tests.sh	Publishes available results and then submits in a sequence all the supported one-shot SAM tests to all PPS sites	Good to be used in cronjobs. It produces detailed logs of all the operations done. Currently supports CE and gCE sensors

Use and Operation

The "official" user reference for SAM is

<http://sam-docs.web.cern.ch/sam-docs/index.php?dir=./user/&>, maintained by the SAM Team.

However, in order to work with the installation above described it is strongly recommended not to run the *same-exec* command directly. In fact, due to the several customisations done in PPS with respect to the default settings, this could cause, if the user environment is not perfectly set up,

- results of the tests to be written in wrong directories
- wrong commands to be run
- wrong RBs to be used

A practical and quick set up to be sure that nothing is missing is to add in the user *.tcsh* file an alias as follows.

```
alias sampps "source /afs/cern.ch/project/gd/egee/sam-pps/instance-setenv.csh; \  
cd /afs/cern.ch/project/gd/egee/sam-pps"
```

and to run the alias each time you start using the PPS instance of SAM.

The regular submission of SAM tests to PPS sites is scheduled by cronjobs run in Antonio's acrontab

```
15 * * * * lxb1908.cern.ch /afs/cern.ch/project/gd/egee/sam-pps/two-phase-sam-tests.sh > /afs/cer  
45 * * * * lxb1908.cern.ch /afs/cern.ch/project/gd/egee/sam-pps/one-phase-sam-tests.sh > /afs/cer
```

- The *one-phase-sam-tests* include those tests to be run in a single step (the results of which are immediately available) e.g. LFC, SRM ...
- The *two-phase-sam-tests* include those tests to be run in two phases (the results of which are *not* immediately available) e.g. CE, gCE ...

In both cases the tests are run in a sequence and applied to **all** PPS sites (Certified, Uncertified, Suspended) where **Monitoring=Y**

-- Main.aretico - 10 May 2007

This topic: LCG > PPSSamInstallation

Topic revision: r11 - 2011-06-21 - AndresAeschlimann



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