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# Notes about Installation and Configuration of myproxy

- These notes are provided by site admins on a best effort base as a contribution to the IGI communities and **MUST not be considered as a substitute of the Official IGI documentation** .
- This document is addressed to site administrators responsible for middleware installation and configuration.
- The goal of this page is to provide some hints and examples on how to install and configure an IGI **myproxy** service based on UMD middleware.

**NB:** The myproxy service is a **CORE** service, it should not be installed at Resource Center level. The official endpoint provided by IGI is `myproxy.cnaf.infn.it` and **MUST** be used by all Resource Centers and Services part of the IGI infrastructure.

## References

1. EMI 1 Kebnekaise Products - glite-proxyrenewal update v.1.3.25
2. YAIM configuration variables
3. About IGI - Italian Grid infrastructure
4. About IGI Release
5. IGI Official Installation and Configuration guide
6. Troubleshooting Guide for Operational Errors on EGI Sites
7. Grid Administration FAQs page

## Recommendations

- The service needs at least:
  - ◆ 3 cores
  - ◆ 3 GB RAM
  - ◆ 10 GB disk space.

A full virtualized machine based on KVM has been used in the following notes.

## Service installation

### O.S. and Repos

- Starts from a fresh installation of Scientific Linux 5.x (x86\_64).

```
# cat /etc/redhat-release
Scientific Linux SL release 5.7 (Boron)
```

\* Install the additional repositories: EPEL, Certification Authority, UMD

```
# cd /etc/yum.repos.d/
# rpm -ivh http://mirror.switch.ch/ftp/mirror/epel//5/x86_64/epel-release-5-4.noarch.rpm
# wget http://repo-pd.italiangrid.it/mrepo/repos/egi-trustanchors.repo
# rpm -ivh http://repo-pd.italiangrid.it/mrepo/EMI/1/sl5/x86_64/updates/emi-release-1.0.1-1.sl5.n
# yum install yum-priorities yum-protectbase
```

- Be sure that SELINUX is disabled (or permissive). Details on how to disable SELINUX are here :

```
# getenforce
Disabled
```

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- Check the repos list (sl-\*.repo are the repos of the O.S. and they should be present by default).

```
# ls /etc/yum.repos.d/
egi-trustanchors.repo
emil-third-party.repo emil-base.repo emil-updates.repo
epel.repo epel-testing.repo
sl-contrib.repo sl-fastbugs.repo sl-security.repo sl-testing.repo sl-debuginfo.repo sl.repo sl-sr
```

### yum install

```
# yum clean all
Loaded plugins: downloadonly, kernel-module, priorities, protect-packages, protectbase, security,
Cleaning up Everything
```

```
# yum install ca-policy-egi-core emi-px
Loaded plugins: downloadonly, kernel-module, priorities, protectbase
sl-security
sl-security/primary_db
242 packages excluded due to repository priority protections
0 packages excluded due to repository protections
Setting up Install Process
Package ca-policy-egi-core-1.43-1.noarch already installed and latest version
Resolving Dependencies
--> Running transaction check
---> Package emi-px.x86_64 0:1.0.0-1.sl5 set to be updated
--> Processing Dependency: glite-px-myproxy-yaim for package: emi-px
--> Processing Dependency: emi-version for package: emi-px
--> Processing Dependency: myproxy-admin for package: emi-px
--> Processing Dependency: fetch-crl for package: emi-px
--> Processing Dependency: bdii for package: emi-px
--> Processing Dependency: myproxy-server for package: emi-px
--> Processing Dependency: glue-schema for package: emi-px
--> Processing Dependency: glite-info-provider-service for package: emi-px
--> Running transaction check
---> Package bdii.noarch 0:5.2.5-2.el5 set to be updated
--> Processing Dependency: openldap-servers for package: bdii
--> Processing Dependency: expect for package: bdii
--> Processing Dependency: openldap-clients for package: bdii
---> Package emi-version.x86_64 0:1.7.0-1.sl5 set to be updated
---> Package fetch-crl.noarch 0:2.8.4-2.el5 set to be updated
---> Package glite-info-provider-service.noarch 0:1.7.0-1.el5 set to be updated
---> Package glite-px-myproxy-yaim.x86_64 0:4.1.4-2.sl5 set to be updated
--> Processing Dependency: glite-yaim-core for package: glite-px-myproxy-yaim
--> Processing Dependency: glite-yaim-bdii for package: glite-px-myproxy-yaim
---> Package glue-schema.noarch 0:2.0.8-1.el5 set to be updated
---> Package myproxy-admin.x86_64 0:5.5-1.el5 set to be updated
--> Processing Dependency: myproxy-libs = 5.5-1.el5 for package: myproxy-admin
--> Processing Dependency: myproxy = 5.5-1.el5 for package: myproxy-admin
--> Processing Dependency: globus-gsi-cert-utils-progs for package: myproxy-admin
--> Processing Dependency: libglobus_gsi_credential.so.1()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_gsi_cert_utils.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_gsi_sysconfig.so.1()(64bit) for package: myproxy-admin
--> Processing Dependency: libltdl.so.3()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_openssl.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_proxy_ssl.so.1()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_gsi_callback.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_gsi_proxy_core.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_xio.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libmyproxy.so.5()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_openssl_error.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_oldgaa.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libvomsapi.so.1()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_gssapi_gsi.so.4()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_common.so.0()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_gss_assist.so.3()(64bit) for package: myproxy-admin
--> Processing Dependency: libglobus_callout.so.0()(64bit) for package: myproxy-admin
```

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```
--> Processing Dependency: libglobus_usage.so.0()(64bit) for package: myproxy-admin
--> Package myproxy-server.x86_64 0:5.5-1.el5 set to be updated
--> Running transaction check
--> Package expect.x86_64 0:5.43.0-5.1 set to be updated
--> Package glide-yaim-bdii.noarch 0:4.3.4-1.el5 set to be updated
--> Package glide-yaim-core.noarch 0:5.0.2-1.s15 set to be updated
--> Package globus-callout.x86_64 0:0.7-8.el5 set to be updated
--> Processing Dependency: globus-libtool >= 1 for package: globus-callout
--> Package globus-common.x86_64 0:11.6-5.el5 set to be updated
--> Package globus-gsi-callback.x86_64 0:2.8-2.el5 set to be updated
--> Processing Dependency: globus-openssl >= 1 for package: globus-gsi-callback
--> Package globus-gsi-cert-utils.x86_64 0:6.7-2.el5 set to be updated
--> Package globus-gsi-cert-utils-progs.x86_64 0:6.7-2.el5 set to be updated
--> Processing Dependency: globus-common-setup >= 2 for package: globus-gsi-cert-utils-progs
--> Processing Dependency: globus-openssl-progs >= 1 for package: globus-gsi-cert-utils-progs
--> Package globus-gsi-credential.x86_64 0:3.5-3.el5 set to be updated
--> Package globus-gsi-openssl-error.x86_64 0:0.14-8.el5 set to be updated
--> Package globus-gsi-proxy-core.x86_64 0:4.7-2.el5 set to be updated
--> Package globus-gsi-proxy-ssl.x86_64 0:2.3-3.el5 set to be updated
--> Package globus-gsi-sysconfig.x86_64 0:3.2-1.el5 set to be updated
--> Package globus-gss-assist.x86_64 0:5.10-1.el5 set to be updated
--> Package globus-gssapi-gsi.x86_64 0:7.8-1.el5 set to be updated
--> Package globus-openssl-module.x86_64 0:1.3-3.el5 set to be updated
--> Package globus-usage.x86_64 0:1.4-2.el5 set to be updated
--> Package globus-xio.x86_64 0:2.8-4.el5 set to be updated
--> Package libtool-ltdl.x86_64 0:1.5.22-7.el5_4 set to be updated
--> Package myproxy.x86_64 0:5.5-1.el5 set to be updated
--> Processing Dependency: globus-proxy-utils for package: myproxy
--> Processing Dependency: voms-clients for package: myproxy
--> Package myproxy-libs.x86_64 0:5.5-1.el5 set to be updated
--> Package openldap-clients.x86_64 0:2.3.43-12.el5_6.7 set to be updated
--> Package openldap-servers.x86_64 0:2.3.43-12.el5_6.7 set to be updated
EGI-trustanchors/filelists
EMI-1-base/filelists_db
EMI-1-third-party/filelists_db
EMI-1-updates/filelists_db
epel/filelists_db
sl-base/filelists
sl-security/filelists_db
--> Package voms.x86_64 0:2.0.2-1.s15 set to be updated
--> Running transaction check
--> Package globus-common-progs.x86_64 0:11.6-5.el5 set to be updated
--> Processing Dependency: autoconf for package: globus-common-progs
--> Processing Dependency: finger for package: globus-common-progs
--> Processing Dependency: cvs for package: globus-common-progs
--> Package globus-libtool.x86_64 0:1.2-4.el5 set to be updated
--> Package globus-openssl.x86_64 0:5.1-2.el5 set to be updated
--> Package globus-openssl-progs.x86_64 0:5.1-2.el5 set to be updated
--> Package globus-proxy-utils.x86_64 0:3.10-1.el5 set to be updated
--> Package voms-clients.x86_64 0:2.0.0-1.s15 set to be updated
--> Running transaction check
--> Package autoconf.noarch 0:2.59-12 set to be updated
--> Processing Dependency: imake for package: autoconf
--> Package cvs.x86_64 0:1.11.22-7.el5 set to be updated
--> Package finger.x86_64 0:0.17-33 set to be updated
--> Running transaction check
--> Package imake.x86_64 0:1.0.2-3 set to be updated
--> Finished Dependency Resolution
Beginning Kernel Module Plugin
Finished Kernel Module Plugin
```

Dependencies Resolved

```
=====
Package                                     Arch                                       Version
=====
```

Installing:

yum install

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```

emi-px                                x86_64                                1.0.0-1.s
Installing for dependencies:
autoconf                              noarch                                  2.59-12
bdii                                   noarch                                  5.2.5-2.e
cvs                                    x86_64                                  1.11.22-7
emi-version                            x86_64                                  1.7.0-1.s
expect                                 x86_64                                  5.43.0-5.
fetch-curl                             noarch                                  2.8.4-2.e
finger                                 x86_64                                  0.17-33
glite-info-provider-service            noarch                                  1.7.0-1.e
glite-px-myproxy-yaim                  x86_64                                  4.1.4-2.s
glite-yaim-bdii                         noarch                                  4.3.4-1.e
glite-yaim-core                         noarch                                  5.0.2-1.s
globus-callout                          x86_64                                  0.7-8.el5
globus-common                           x86_64                                  11.6-5.el
globus-common-progs                     x86_64                                  11.6-5.el
globus-gsi-callback                     x86_64                                  2.8-2.el5
globus-gsi-cert-utils                   x86_64                                  6.7-2.el5
globus-gsi-cert-utils-progs             x86_64                                  6.7-2.el5
globus-gsi-credential                   x86_64                                  3.5-3.el5
globus-gsi-openssl-error                x86_64                                  0.14-8.el
globus-gsi-proxy-core                   x86_64                                  4.7-2.el5
globus-gsi-proxy-ssl                    x86_64                                  2.3-3.el5
globus-gsi-sysconfig                    x86_64                                  3.2-1.el5
globus-gss-assist                       x86_64                                  5.10-1.el
globus-gssapi-gsi                       x86_64                                  7.8-1.el5
globus-libtool                           x86_64                                  1.2-4.el5
globus-openssl                           x86_64                                  5.1-2.el5
globus-openssl-module                   x86_64                                  1.3-3.el5
globus-openssl-progs                     x86_64                                  5.1-2.el5
globus-proxy-utils                       x86_64                                  3.10-1.el
globus-usage                             x86_64                                  1.4-2.el5
globus-xio                               x86_64                                  2.8-4.el5
glue-schema                             noarch                                  2.0.8-1.e
imake                                    x86_64                                  1.0.2-3
libtool-ltdl                            x86_64                                  1.5.22-7.
myproxy                                  x86_64                                  5.5-1.el5
myproxy-admin                            x86_64                                  5.5-1.el5
myproxy-libs                             x86_64                                  5.5-1.el5
myproxy-server                           x86_64                                  5.5-1.el5
openldap-clients                         x86_64                                  2.3.43-12
openldap-servers                         x86_64                                  2.3.43-12
voms                                      x86_64                                  2.0.2-1.s
voms-clients                             x86_64                                  2.0.0-1.s

```

### Transaction Summary

```

=====
Install      43 Package(s)
Upgrade      0 Package(s)

```

Total download size: 5.9 M

Is this ok [y/N]:

Downloading Packages:

```

(1/43): emi-px-1.0.0-1.s15.x86_64.rpm
(2/43): emi-version-1.7.0-1.s15.x86_64.rpm
(3/43): globus-libtool-1.2-4.el5.x86_64.rpm
(4/43): globus-openssl-progs-5.1-2.el5.x86_64.rpm
(5/43): globus-openssl-5.1-2.el5.x86_64.rpm
(6/43): glite-px-myproxy-yaim-4.1.4-2.s15.x86_64.rpm
(7/43): glite-yaim-bdii-4.3.4-1.el5.noarch.rpm
(8/43): globus-openssl-module-1.3-3.el5.x86_64.rpm
(9/43): globus-gsi-openssl-error-0.14-8.el5.x86_64.rpm
(10/43): globus-usage-1.4-2.el5.x86_64.rpm
(11/43): globus-callout-0.7-8.el5.x86_64.rpm
(12/43): globus-gsi-proxy-ssl-2.3-3.el5.x86_64.rpm
(13/43): globus-gsi-cert-utils-6.7-2.el5.x86_64.rpm
(14/43): bdii-5.2.5-2.el5.noarch.rpm

```

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```
(15/43): finger-0.17-33.x86_64.rpm
(16/43): fetch-crl-2.8.4-2.el5.noarch.rpm
(17/43): globus-gsi-cert-utils-progs-6.7-2.el5.x86_64.rpm
(18/43): globus-gsi-sysconfig-3.2-1.el5.x86_64.rpm
(19/43): globus-gss-assist-5.10-1.el5.x86_64.rpm
(20/43): globus-gsi-credential-3.5-3.el5.x86_64.rpm
(21/43): globus-gsi-proxy-core-4.7-2.el5.x86_64.rpm
(22/43): glue-schema-2.0.8-1.el5.noarch.rpm
(23/43): libtool-ltdl-1.5.22-7.el5_4.x86_64.rpm
(24/43): globus-gsi-callback-2.8-2.el5.x86_64.rpm
(25/43): globus-proxy-utils-3.10-1.el5.x86_64.rpm
(26/43): myproxy-server-5.5-1.el5.x86_64.rpm
(27/43): glite-info-provider-service-1.7.0-1.el5.noarch.rpm
(28/43): globus-gssapi-gsi-7.8-1.el5.x86_64.rpm
(29/43): myproxy-admin-5.5-1.el5.x86_64.rpm
(30/43): globus-common-progs-11.6-5.el5.x86_64.rpm
(31/43): myproxy-5.5-1.el5.x86_64.rpm
(32/43): globus-common-11.6-5.el5.x86_64.rpm
(33/43): glite-yaim-core-5.0.2-1.s15.noarch.rpm
(34/43): myproxy-libs-5.5-1.el5.x86_64.rpm
(35/43): globus-xio-2.8-4.el5.x86_64.rpm
(36/43): expect-5.43.0-5.1.x86_64.rpm
(37/43): voms-2.0.2-1.s15.x86_64.rpm
(38/43): voms-clients-2.0.0-1.s15.x86_64.rpm
(39/43): openldap-clients-2.3.43-12.el5_6.7.x86_64.rpm
(40/43): imake-1.0.2-3.x86_64.rpm
(41/43): autoconf-2.59-12.noarch.rpm
(42/43): cvs-1.11.22-7.el5.x86_64.rpm
(43/43): openldap-servers-2.3.43-12.el5_6.7.x86_64.rpm
```

-----  
Total

warning: rpmts\_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID 217521f6

epel/gpgkey

Importing GPG key 0x217521F6 "Fedora EPEL <epel@fedoraproject.org>" from /etc/pki/rpm-gpg/RPM-GPG

Is this ok [y/N]: y

warning: rpmts\_HdrFromFdno: Header V3 DSA signature: NOKEY, key ID df9e12ef

EMI-1-updates/gpgkey

Importing GPG key 0xDF9E12EF "Doina Cristina Aiftimiei (EMI Release Manager) <aiftim@pd.infn.it>"

Is this ok [y/N]: y

Running rpm\_check\_debug

Running Transaction Test

Finished Transaction Test

Transaction Test Succeeded

Running Transaction

```
Installing      : libtool-ltdl
Installing      : voms
Installing      : globus-openssl
Installing      : globus-gsi-proxy-ssl
Installing      : globus-libtool
Installing      : globus-common
Installing      : globus-gsi-openssl-error
Installing      : globus-gsi-sysconfig
Installing      : globus-openssl-module
Installing      : globus-gsi-cert-utils
Installing      : globus-gsi-callback
Installing      : globus-gsi-credential
Installing      : globus-gsi-proxy-core
Installing      : globus-gssapi-gsi
Installing      : globus-callout
Installing      : globus-gss-assist
Installing      : globus-xio
Installing      : globus-usage
Installing      : myproxy-libs
Installing      : myproxy-server
Installing      : glue-schema
Installing      : globus-proxy-utils
Installing      : voms-clients
```

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```
Installing      : myproxy
Installing      : openldap-servers
Installing      : expect
Installing      : openldap-clients
Installing      : imake
Installing      : cvs
Installing      : finger
Installing      : autoconf
Installing      : globus-common-progs
Installing      : bdii
Installing      : globus-openssl-progs
Installing      : globus-gsi-cert-utils-progs
Installing      : myproxy-admin
Installing      : glite-yaim-bdii
Installing      : glite-yaim-core
Installing      : glite-px-myproxy-yaim
Installing      : emi-version
Installing      : glite-info-provider-service
Installing      : fetch-crl
Installing      : emi-px
```

Installed:

```
emi-px.x86_64 0:1.0.0-1.s15
```

Dependency Installed:

```
autoconf.noarch 0:2.59-12
emi-version.x86_64 0:1.7.0-1.s15
finger.x86_64 0:0.17-33
glite-yaim-bdii.noarch 0:4.3.4-1.e15
globus-common.x86_64 0:11.6-5.e15
globus-gsi-cert-utils.x86_64 0:6.7-2.e15
globus-gsi-openssl-error.x86_64 0:0.14-8.e15
globus-gsi-sysconfig.x86_64 0:3.2-1.e15
globus-libtool.x86_64 0:1.2-4.e15
globus-openssl-progs.x86_64 0:5.1-2.e15
globus-xio.x86_64 0:2.8-4.e15
libtool-ltdl.x86_64 0:1.5.22-7.e15_4
myproxy-libs.x86_64 0:5.5-1.e15
openldap-servers.x86_64 0:2.3.43-12.e15_6.7
bdii.noarch 0:5.2.5-2.e15
expect.x86_64 0:5.43.0-5.1
glite-info-provider-service.noarch 0:
glite-yaim-core.noarch 0:5.0.2-1.s15
globus-common-progs.x86_64 0:11.6-5.e
globus-gsi-cert-utils-progs.x86_64 0:
globus-gsi-proxy-core.x86_64 0:4.7-2.
globus-gss-assist.x86_64 0:5.10-1.e15
globus-openssl.x86_64 0:5.1-2.e15
globus-proxy-utils.x86_64 0:3.10-1.e1
glue-schema.noarch 0:2.0.8-1.e15
myproxy.x86_64 0:5.5-1.e15
myproxy-server.x86_64 0:5.5-1.e15
voms.x86_64 0:2.0.2-1.s15
```

Complete!

## Service configuration

The configuration file for this service is really basic. For authorization:

- DN list of authorized renewals (WMS and nagios)
- DN list of trusted retrievers (nagios)

### site-info.def

```
# cp -vr /opt/glite/yaim/examples/siteinfo /root/
`/opt/glite/yaim/examples/siteinfo' -> `/root/siteinfo'
`/opt/glite/yaim/examples/siteinfo/site-info.def' -> `/root/siteinfo/site-info.def'
`/opt/glite/yaim/examples/siteinfo/services' -> `/root/siteinfo/services'
`/opt/glite/yaim/examples/siteinfo/services/glite-px' -> `/root/siteinfo/services/glite-px'
`/opt/glite/yaim/examples/siteinfo/services/glite-bdii_site' -> `/root/siteinfo/services/glite-bdii'

# cat /root/siteinfo/site-info.def
SITE_NAME=INFN-CNAF
PX_HOST=`hostname -f`
BDII_DELETE_DELAY=0
```

**glite-px**

```

# cat siteinfo/services/glite-px
#####
# Copyright (c) Members of the EGEE Collaboration. 2004.
# See http://www.eu-egee.org/partners/ for details on the copyright
# holders.
#
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
#
#   http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS
# OF ANY KIND, either express or implied.
# See the License for the specific language governing permissions and
# limitations under the License.
#####
#
# NAME :          glite-px
#
# DESCRIPTION :  This configuration file contains the list of variables needed
#                to configure Myproxy together with site-info.def.
#
# AUTHORS :     yaim-contact@cern.ch
#
# NOTES :
#
# YAIM MODULE:  glite-yaim-myproxy
#
#####

GRID_AUTHORIZED_RETRIEVERS="\*"

GRID_AUTHORIZED_RENEWERS="
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=gridit-wms-01.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-wms-01.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=Ferrara/CN=gridrb.fe.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-01.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-02.cnaf.infn.it'
'/C=IT/O=INFN/OU=grid014.ct.infn.it/L=Catania/CN=grid014.ct.infn.it/emailAddress=giuseppe.platani'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=gridit-cert-rb.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=eumed-rb-1.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=euchina-rb-1.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-03.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-04.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-05.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-06.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=gridit-rb-01.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=Padova/CN=egrid-rb-01.pd.infn.it'
'/C=IT/O=INFN/OU=Host/L=Padova/CN=prod-rb-01.pd.infn.it'
'/C=IT/O=INFN/OU=Host/L=Padova/CN=prod-rb-02.pd.infn.it'
'/C=IT/O=INFN/OU=Host/L=Padova/CN=prod-wms-01.pd.infn.it'
'/C=IT/O=INFN/OU=Host/L=Padova/CN=eu-india-02.pd.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=sc2.cr.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=Bari/CN=wms1.ba.infn.it'
'/C=IT/O=INFN/OU=Host/L=Bari/CN=wms2.ba.infn.it'
'/C=IT/O=INFN/OU=Host/L=Bari/CN=wms3.ba.infn.it'
'/C=CH/O=CERN/OU=GRID/CN=host/lxn1185.cern.ch'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-07.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-08.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee-rb-09.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=cert-rb-06.cnaf.infn.it'

```



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```
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=glite-rb-00.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=glite-rb-01.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel07.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel09.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel10.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel11.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel12.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel14.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel18.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel19.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=devel20.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=Padova/CN=cream-06.pd.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms001.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms002.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms003.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms004.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms005.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms006.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms007.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms008.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms009.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms011.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms012.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms013.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms014.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms015.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms016.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=wms017.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=cert-02.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=pps-fts.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=tigerman.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=Milano/CN=egee-rb-01.mi.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CIRMP/CN=wms-enmr.cern.unifi.it'  
'/DC=ch/DC=cern/OU=computers/CN=wms101.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms102.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms103.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms104.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms105.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms106.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms107.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms108.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms109.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms110.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms111.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms112.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms113.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms114.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms115.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms116.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms117.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms118.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms119.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms121.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms122.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms123.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms124.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms125.cern.ch'  
'/DC=ch/DC=cern/OU=computers/CN=wms126.cern.ch'  
'/O=dutchgrid/O=hosts/OU=nikhef.nl/CN=graszode.nikhef.nl'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=mon-it.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=mon-cnaf.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=bbrbuild01.cr.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=bbr-serv09.cr.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee017.cnaf.infn.it'  
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=sb-serv01.cr.cnaf.infn.it'  
"
```

```
GRID_TRUSTED_RETRIEVERS="
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=mon-it.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=mon-cnaf.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=bbrbuild01.cr.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=bbr-serv09.cr.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=egee017.cnaf.infn.it'
'/C=IT/O=INFN/OU=Host/L=CNAF/CN=sb-serv01.cr.cnaf.infn.it'
"
```

## host certificate required

```
# ll /etc/grid-security/host*
-rw-r--r-- 1 root root 1440 Dec 29 09:30 /etc/grid-security/hostcert.pem
-r----- 1 root root 887 Dec 29 09:30 /etc/grid-security/hostkey.pem
```

## Service configuration

### yaim check

```
# chmod -R 600 /root/siteinfo

# /opt/glite/yaim/bin/yaim -v -s /root/siteinfo/site-info.def -n glite-PX
INFO: Using site configuration file: /root/siteinfo/site-info.def
INFO: Sourcing service specific configuration file: /root/siteinfo/services/glite-px
INFO:
#####

.          /'-. ' )
.   yA,-"-,( ,m, :/ ) .oo.   oo   o   ooo o.   .oo
.   /          .-Y a  a Y-.   8. .8'   8'8.   8   8b  d'8
.   /          ~ ~ /          8'   .8oo88.   8   8 8' 8
.   (/_/          '===='      8   .8'   8.   8   8 Y 8
.   Y,-''-,Yy,-.,/          o8o o8o   o88o o8o o8o   o8o
.   I_))_ I_))_

current working directory: /root
site-info.def date: Dec 29 09:36 /root/siteinfo/site-info.def
yaim command: -v -s /root/siteinfo/site-info.def -n glite-PX
log file: /opt/glite/yaim/bin/./log/yaimlog
Thu Dec 29 09:44:38 CET 2011 : /opt/glite/yaim/bin/yaim

Installed YAIM versions:
glite-px-myproxy-yaim -
glite-yaim-bdii 4.3.4-1
glite-yaim-core 5.0.2-1

#####
INFO: The default location of the grid-env.(c)sh files will be: /usr/libexec
INFO: Sourcing the utilities in /opt/glite/yaim/functions/utils
INFO: Detecting environment
INFO: Executing function: config_host_certs_check
INFO: Executing function: config_edgusers_check
INFO: Executing function: config_proxy_server_check
INFO: Executing function: config_bdii_5.2_check
INFO: Executing function: config_info_service_px_check
INFO: Checking is done.
INFO: All the necessary variables to configure PX are defined in your configuration files.
INFO: Please, bear in mind that YAIM only guarantees the definition of variables
INFO: controlled in the _check functions.
INFO: YAIM terminated succesfully.
```

</>

## yaim config ▾ yaim config ▾ yaim config

Please use the debug flag ( "-d 6") to configure the services in order to have detailed information. For your convenience you can save all the configuration information in a log file you can look at any time, separated from the yaimlog default one.

```
# /opt/glite/yaim/bin/yaim -c -d 6 -s /root/siteinfo/site-info.def -n glite-PX
DEBUG: Checking siteinfo dir is not world readable
DEBUG: Checking site-info.def is syntactically correct
DEBUG: Sourcing /opt/glite/yaim/bin/./defaults/site-info.pre
DEBUG: Sourcing /opt/glite/yaim/bin/./defaults/glite-px.pre
INFO: Using site configuration file: /root/siteinfo/site-info.def
DEBUG: Sourcing site-info.def file: /root/siteinfo/site-info.def
INFO: Sourcing service specific configuration file: /root/siteinfo/services/glite-px
DEBUG: Sourcing /opt/glite/yaim/bin/./defaults/site-info.post
DEBUG: Sourcing /opt/glite/yaim/bin/./defaults/mapping
INFO:
#####
.          /'-. ' )
.   yA,-"-,( ,m,:/ ) .oo.   oo   o   ooo o.   .oo
.   /          .-Y a  a Y-.   8. .8'   8'8.   8   8b  d'8
.   /          ~ ~ /          8'   .8oo88.   8   8  8'  8
.   (_/          '===='       8   .8'   8.   8   8  Y  8
.   Y,-''-,Yy,-.,/          o8o  o8o   o88o  o8o  o8o   o8o
.   I_))_) I_))_)

current working directory: /root
site-info.def date: Dec 29 09:36 /root/siteinfo/site-info.def
yaim command: -c -d 6 -s /root/siteinfo/site-info.def -n glite-PX
log file: /opt/glite/yaim/bin/./log/yaimlog
Thu Dec 29 09:45:30 CET 2011 : /opt/glite/yaim/bin/yaim

Installed YAIM versions:
glite-px-myproxy-yaim -
glite-yaim-bdii 4.3.4-1
glite-yaim-core 5.0.2-1

#####
INFO: The default location of the grid-env.(c)sh files will be: /usr/libexec
INFO: Sourcing the utilities in /opt/glite/yaim/functions/utills
INFO: Detecting environment
DEBUG: Detect platform: OS flavour detected is: emi
DEBUG: Detected architecture is 64BIT
DEBUG: Detect platform: OS type detected: sl5
DEBUG: Resulted NODE_TYPE_LIST is : PX
DEBUG: Setting environment variable GRID_ENV_LOCATION, to value "/usr/libexec".
DEBUG: Unset environment variable GRID_ENV_LOCATION.
DEBUG: Setting environment variable LCG_LOCATION, to value "/usr".
DEBUG: Unset environment variable LCG_LOCATION.
DEBUG: Setting environment variable GLITE_LOCATION, to value "/usr".
DEBUG: Unset environment variable GLITE_LOCATION.
DEBUG: Setting environment variable GLITE_LOCATION_VAR, to value "/var".
DEBUG: Unset environment variable GLITE_LOCATION_VAR.
DEBUG: Appending value "/bin" to environment variable PATH.
DEBUG: Deleting value "/bin" from environment variable PATH.
DEBUG: Appending value "/opt/glite/share/man" to environment variable MANPATH.
DEBUG: Deleting value "/opt/glite/share/man" from environment variable MANPATH.
DEBUG: Sourcing node definition file: /opt/glite/yaim/bin/./node-info.d/glite-px
DEBUG: Skipping function: config_crl_check because it is not defined
INFO: Executing function: config_host_certs_check
INFO: Executing function: config_edgusers_check
INFO: Executing function: config_proxy_server_check
```

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```
INFO: Executing function: config_bdii_5.2_check
INFO: Executing function: config_info_service_px_check
DEBUG: Skipping function: config_crl_setenv because it is not defined
INFO: Executing function: config_crl
INFO: Now updating the CRLs - this may take a few minutes...
Enabling periodic fetch-crl: [ OK ]
DEBUG: fetch-crl cron enabled
DEBUG: Skipping function: config_host_certs_setenv because it is not defined
INFO: Executing function: config_host_certs
DEBUG: Skipping function: config_edgusers_setenv because it is not defined
INFO: Executing function: config_edgusers
DEBUG: Creating user edguser...
DEBUG: User edguser doesn't exist
DEBUG: YAIM is going to add user edguser
DEBUG: HOME directory ${EDG_HOME_DIR} is specified for the user
DEBUG: Checking whether the group edguser infosys for user edguser already exist...
DEBUG: Group edguser added
DEBUG: Group infosys added
DEBUG: User edguser added
DEBUG: Creating user edginfo...
DEBUG: User edginfo doesn't exist
DEBUG: YAIM is going to add user edginfo
DEBUG: HOME directory ${EDGINFO_HOME_DIR} is specified for the user
DEBUG: Checking whether the group edginfo infosys for user edginfo already exist...
DEBUG: Group edginfo added
DEBUG: Group infosys added
DEBUG: User edginfo added
DEBUG: Creating user glite...
DEBUG: User glite doesn't exist
DEBUG: YAIM is going to add user glite
DEBUG: HOME directory ${GLITE_HOME_DIR} is specified for the user
DEBUG: Checking whether the group glite for user glite already exist...
DEBUG: Group glite added
DEBUG: User glite added
DEBUG: Creating user edguser...
DEBUG: Skipping user edguser since it already exists...
INFO: Executing function: config_proxy_server_setenv
DEBUG: Setting environment variable GLITE_PX_LOCATION, to value "/usr".
DEBUG: Unset environment variable GLITE_PX_LOCATION.
DEBUG: Setting environment variable GLITE_PX_LOCATION_ETC, to value "/etc".
DEBUG: Unset environment variable GLITE_PX_LOCATION_ETC.
DEBUG: Setting environment variable GLITE_PX_LOCATION_VAR, to value "/var/glite".
DEBUG: Unset environment variable GLITE_PX_LOCATION_VAR.
INFO: Executing function: config_proxy_server
DEBUG: Creating Minimal myproxy configuration.
INFO: Reloading MyProxy server
INFO: MyProxy server not running so starting
Starting myproxy-server: [ OK ]
DEBUG: Skipping function: config_bdii_5.2_setenv because it is not defined
INFO: Executing function: config_bdii_5.2
Stopping BDII: BDII already stopped
Starting BDII slapd: [ OK ]
Starting BDII update process: [ OK ]
INFO: Executing function: config_info_service_px_setenv
DEBUG: This function currently doesn't set any environment variables.
INFO: Executing function: config_info_service_px
DEBUG: Delete a previous version of the *.conf if it exists
DEBUG: Create the configuration files out of the template file
DEBUG: Delete a previous version of the glite-info-provider-service-myproxy-wrapper if it exists
DEBUG: Create the /var/lib/bdii/gip/provider in case it doesn't exist
DEBUG: Create the glite-info-provider-service-myproxy-wrapper file
INFO: Configuration Complete. [ OK ]
INFO: YAIM terminated succesfully.
```

## Know Issue and Workaround

Al momento il servizio non parte al boot (baco di yaim, notificato in GGUS .

```
# chkconfig myproxy-server on
```

## Service checks

### myproxy-init

On a user interface:

```
# $ myproxy-init -s myproxy.cnaf.infn.it -k veronesi-test
username: veronesi
owner: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Paolo Veronesi
name: veronesi-test
timeleft: 167:55:38 (7.0 days)
[veronesi@ui ~]$ myproxy-init -s myproxy.cnaf.infn.it -k veronesi-test
Your identity: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Paolo Veronesi
Enter GRID pass phrase for this identity:
Creating proxy .....
Proxy Verify OK
Your proxy is valid until: Thu Jan 5 10:03:38 2012
Enter MyProxy pass phrase:
Verifying - Enter MyProxy pass phrase:
A proxy valid for 168 hours (7.0 days) for user veronesi now exists on myproxy.cnaf.infn.it.
```

On the MyProxy server:

```
# tail -f /var/log/messages
Dec 29 10:03:40 myproxy myproxy-server[9119]: Connection from 131.154.101.141
Dec 29 10:03:41 myproxy myproxy-server[9119]: Authenticated client /C=IT/O=INFN/OU=Personal Certi
Dec 29 10:03:42 myproxy myproxy-server[9119]: Received PUT request for username veronesi
Dec 29 10:03:43 myproxy myproxy-server[9119]: Client /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/

# ls -ltr /var/lib/myproxy/
total 36
-rw----- 1 myproxy myproxy 132 Dec 29 10:03 veronesi-veronesi-test.data
-rw----- 1 myproxy myproxy 5912 Dec 29 10:03 veronesi-veronesi-test.creds
```

### myproxy-info

On a user interface:

```
# myproxy-info -s myproxy.cnaf.infn.it -k veronesi-test
username: veronesi
owner: /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/CN=Paolo Veronesi
name: veronesi-test
timeleft: 167:55:38 (7.0 days)
```

On the MyProxy server:

```
# tail -f /var/log/messages
Dec 29 10:42:08 myproxy myproxy-server[9209]: Connection from 131.154.101.141
Dec 29 10:42:08 myproxy myproxy-server[9209]: Authenticated client /C=IT/O=INFN/OU=Personal Certi
Dec 29 10:42:08 myproxy myproxy-server[9209]: Received INFO request for username veronesi
Dec 29 10:42:08 myproxy myproxy-server[9209]: Client /C=IT/O=INFN/OU=Personal Certificate/L=CNAF/
```

## myproxy-get-delegation

On a user interface:

```
$ myproxy-get-delegation -s myproxy.cnaf.infn.it -k veronesi-test
Enter MyProxy pass phrase:
A credential has been received for user veronesi in /tmp/x509up_u23019.
```

On the MyProxy server:

```
# tail -f /var/log/messages
Dec 29 11:01:05 myproxy myproxy-server[31270]: Connection from 131.154.101.141
Dec 29 11:01:05 myproxy myproxy-server[31270]: Authenticated client /C=IT/O=INFN/OU=Personal Cert
Dec 29 11:01:08 myproxy myproxy-server[31270]: Received GET request for username veronesi
Dec 29 11:01:08 myproxy myproxy-server[31270]: credential passphrase matched
Dec 29 11:01:08 myproxy myproxy-server[31270]: Delegating credentials for /C=IT/O=INFN/OU=Persona
Dec 29 11:01:08 myproxy myproxy-server[31270]: Client /C=IT/O=INFN/OU=Personal Certificate/L=CNAF
```

## Additional notes

In order to make the WMS renewal function it is necessary:

1. To include the DN of the WMS that process the jobs among the authorized renewers on the MyProxy server, i.e. to add `authorized_renewers` DN to the configuration and restart the server;
2. Upload the proxy of the job submitter in the MyProxy server using `myproxy-init -s myproxy_server -d -n`
3. Submit the job with the MyProxy server hostname being given in the JDL

## Revision

Date	Comment
2012-05-03	myproxy upgraded - EMI 1 Kebnekaise Products - glite-proxyrenewal update v.1.3.25

-- PaoloVeronesi - 2011-12-28

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This topic: SiteAdminCorner > NotesAboutInstallationAndConfigurationOfMyproxy

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