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# glite-PX

## Functional description

The gLite distribution of the MyProxy server.

MyProxy is a standalone server which manages proxy renewal to avoid the need for long lived proxies.

## Daemons running

- `/opt/globus/sbin/myproxy-server -c /etc/myproxy-server.config --verbose`

## Init scripts and options (start|stop|restart|...)

- `/etc/init.d/myproxy (start|stop|status)`

## Configuration files location with example or template

- `/opt/globus/share/myproxy/myproxy-server.config`

## Logfile locations (and management) and other useful

MyProxy logs to syslog with the `LOG_DAEMON` facility.

Messages from `myproxy-server` are prefixed with the string 'myproxy-server' (configurable).

## Open ports

- [http://jra1mw.cvs.cern.ch:8180/cgi-bin/jra1mw.cgi/org.glite.site-info.ports/doc/?only\\_with\\_tag=HEAD](http://jra1mw.cvs.cern.ch:8180/cgi-bin/jra1mw.cgi/org.glite.site-info.ports/doc/?only_with_tag=HEAD)

## Possible unit test of the service

`myproxy-init` from a UI;

- `$ myproxy-init -s my.proxy.server -d -n`

## Where is service state held (and can it be rebuilt)

Proxies and meta-data are stored in

- `/var/myproxy`

## Cron jobs

- `/etc/cron.daily/myproxy.cron`

## Security information

## Access control Mechanism description (authentication & authorization)

Access is controlled by a single configuration file (/etc/myproxy-server.config). Detailed information can be found at (<http://grid.ncsa.uiuc.edu/myproxy/authorization.html>)

### Who can store credentials?

The accept\_credentials policy sets the policy for who can store credentials based on the clients SSL/TLS authenticated identity.

### Who can modify or get information about stored credentials?

Only the credential owner can overwrite, remove or get information about stored credentials. The authenticated SSL/TLS identity must match the identity of the stored credentials

### Who can retrieve a delegated credential?

For more details, please check again <http://grid.ncsa.uiuc.edu/myproxy/authorization.html>.

The access is controlled by a concatenation of administrator's set of policies (myproxy-server.config) and credential's owner policies (defined by myproxy-init/myproxy-store parameters). The client must satisfy one of the following:

- Client's identity matches the myproxy-server.config authorized\_retrievers policy AND the possibly owner's defined one or (if none was set but owner) the myproxy-server.config default\_retrievers policy
- Client's identity matches the myproxy-server.config authorized\_renewers policy and the owner's defined one or (if none was set by the owner) the myproxy-server.config default\_renewers policy
- Client's identity matches the myproxy-server.config trusted\_retrievers and authorized\_retrievers policies and the owner's set defined one's (or the default policies at myproxy-server.config)

### Who can directly retrieve a credential?

The client's identity must satisfy the policies for delegated retrieval AND also match the myproxy-server.config authorized\_key\_retrievers policy. If the owner has defined a authorized\_key\_retrievers policy the client's identity must also satisfy it.

### How to block/ban a user

The MyProxy accepted\_credentials\_mapapp call-out is passed the certificate subject and username of a credential to be stored and may return zero to allow and nonzero to deny the request. To block a user from storing credentials, define an accepted\_credentials\_mapapp call out program that consults a banned user list and returns nonzero to deny requests by banned users.

For the case where a banned user has already stored credentials and you want to deny access to the credentials, myproxy-admin-query enables the administrator to find the credentials and either remove them or "lock" them.

## Network Usage

Two services are running that need network access on this node-type.

- the MyProxy server service. The server binds to the 7512/tcp port.
- the Resources BDII service. As (almost) all gLite services MyProxy has a resource BDII to advertise its endpoint and its capabilities. The resource BDII binds to the 2170/tcp port.

## Firewall configuration

The proposed firewall configuration is to deny access to anyhost/anyport and allow:

- 7512/tcp incoming traffic from the subnets that this server is servicing (probably anyhost)
- 2170/tcp from the local site-BDII service
- Any other administration required port for the administration subnet/interface (i.e. 22/tcp (ssh))

## Security recommendations

No stipulation

## Security incompatibilities

No stipulation

## List of externals (packages are NOT maintained by Red Hat or by gLite)

The following packages from the Scientific Linux CERN repository are included to the MyProxy RPM list:

- openldap-servers
- perl-Convert-ASN1
- perl-URI
- perl-libwww-perl

The following packages from the DAG repository are included to the MyProxy RPM list:

- perl-HTML-Parser
- perl-HTML-Tagset
- perl-IO-Socket-SSL
- perl-LDAP
- perl-Net-SSLeay
- perl-XML-NamespaceSupport
- perl-XML-SAX

## Other security relevant comments

As MyProxy service is usually hosting valid credentials it is required that logs, network activities and local (physical) access are monitored.


## Utility scripts

The config file `/etc/myproxy-server.config` is actually generated from `$EDG_LOCATION/etc/edg-myproxy.conf` in the following way;

- `/etc/rc.d/init.d/myproxy-generate-config.pl $CERTDIR $X509_USER_CERT $EDG_LOCATION/etc/edg-myproxy.conf $CONFIG`

## Location of reference documentation for users

Troubleshooting advice is available here;

- <http://grid.ncsa.uiuc.edu/myproxy/troubleshooting.html> 

## Location of reference documentation for administrators

- <http://grid.ncsa.uiuc.edu/myproxy/>
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