1. Component Overview

MyProxy is an online credential repository. You can store X.509 proxy credentials in the MyProxy repository, protected by a passphrase, for later retrieval over the network. This eliminates the need for manually copying private key and certificate files between machines. MyProxy can also be used for authentication to grid portals and credential renewal with job managers.

2. Feature summary

Supported Features

- Users can store and retrieve multiple X.509 proxy credentials using myproxy-init and myproxy-logon.
- Users can store and retrieve multiple X.509 end-entity credentials using myproxy-store and myproxy-retrieve.
- Administrators can load the repository with X.509 end-entity credentials on the users' behalf using myproxy-admin-load-credential.
- Administrators can use the myproxy-admin-adduser command to create user credentials and load them into the MyProxy repository.
- Users and administrators can set access control policies on the credentials in the repository.
- If allowed by policy, job managers (such as Condor-G) can renew credentials before they expire.
- The MyProxy server enforces local site passphrase policies using a configurable external call-out.

Deprecated Features

- None
3. Summary of Changes in MyProxy

No changes have occurred for MyProxy since the last stable release, 4.0.x:

4. Bug Fixes

No changes have occurred for MyProxy.

5. Known Problems

The following problems and limitations are known to exist for MyProxy at the time of the 4.2.0 release:

5.1. Limitations

• No known limitations exist.

5.2. Outstanding bugs

• Bug 2709:¹ The MyProxy package isn't internationalized.

6. Technology dependencies

MyProxy depends on the following GT component:

• Non-WS Authentication and Authorization

MyProxy depends on the following 3rd party software:

• None

7. Tested platforms

Tested Platforms for MyProxy

• Mac OS X 10.3
• i686 GNU/Linux
• ia64 GNU/Linux

8. Backward compatibility summary

Protocol changes since GT 4.0.x

• None.

API changes since GT 4.0.x

¹ http://bugzilla.globus.org/globus/show_bug.cgi?id=2709
Exception changes since GT 4.0.x

- Not applicable

Schema changes since GT 4.0.x

- Not applicable

9. Associated Standards

Associated standards for MyProxy:

- GFD-E.054\textsuperscript{2} MyProxy Protocol
- RFC 3820\textsuperscript{3} Proxy Certificates
- RFC 2246\textsuperscript{4} TLS

10. For More Information

See MyProxy for more information about this component.

Glossary

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private key The private part of a key pair. Depending on the type of certificate the key corresponds to it may typically be found in \\
$\texttt{HOME/.globus/userkey.pem}$ (for user certificates), \\
$\texttt{etc/grid-security/hostkey.pem}$ (for host certificates) \\
or $\texttt{etc/grid-security/<service>/<service>key.pem}$ (for service \\
certificates).

For more information on possible private key locations see this.

proxy credentials The combination of a proxy certificate and its corresponding private key. GSI typically stores proxy credentials in \\
$\texttt{tmp/x509up\_u<uid>}$, where $\texttt{<uid>}$ is the user id of the proxy owner.

\textbf{U}

user credentials The combination of a user certificate and its corresponding private key.

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