



MyProxy NMI Integration

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



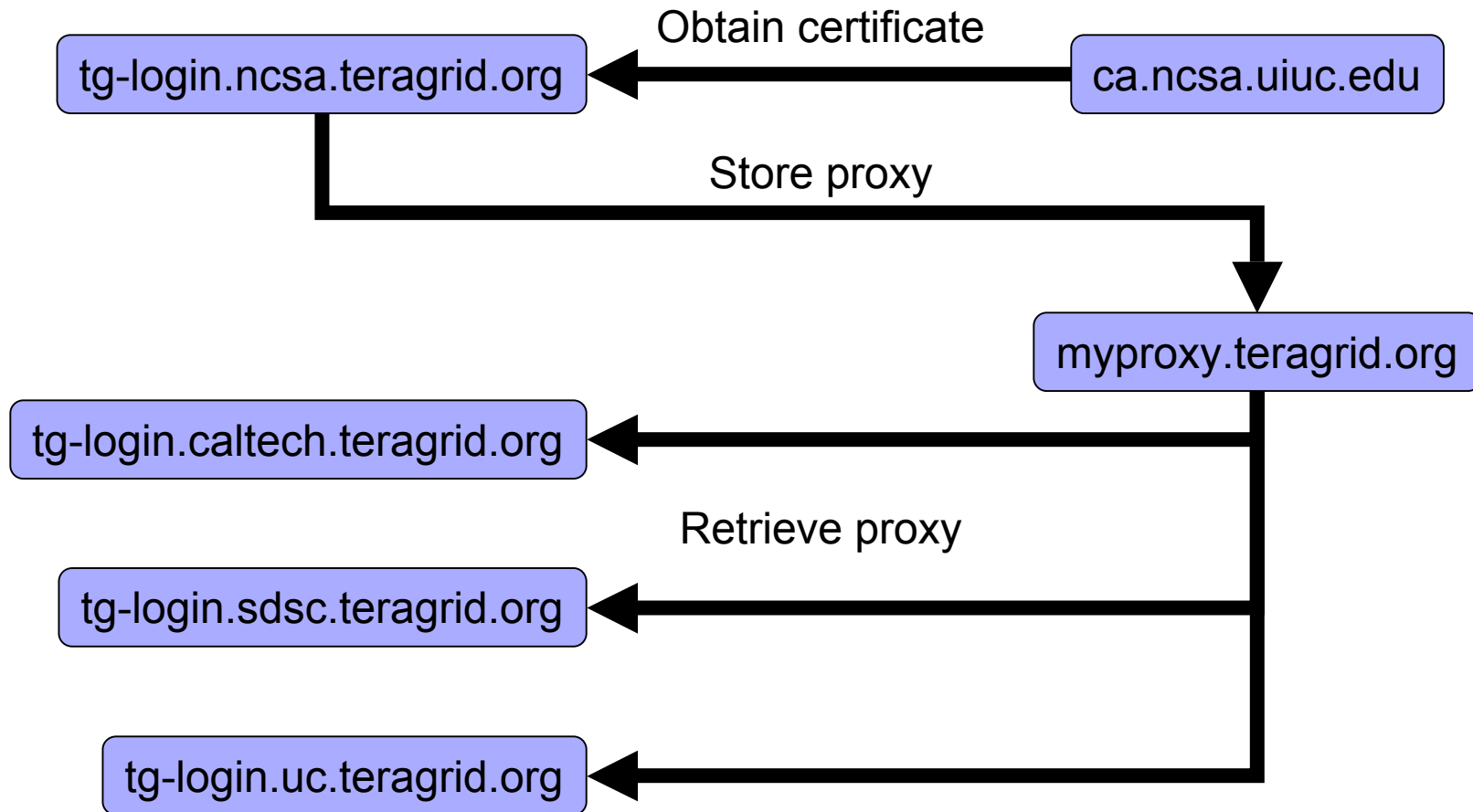
MyProxy is an online repository for grid credentials.

- Secure credential storage
- Convenient credential access
- Flexible credential management

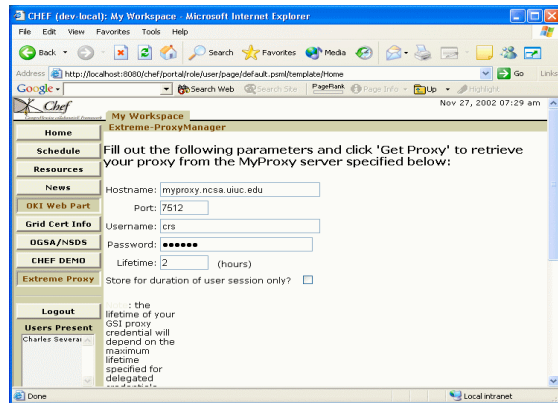
Examples of MyProxy in use:



Credential mobility:



Grid portals:



Login

CHEF
portal

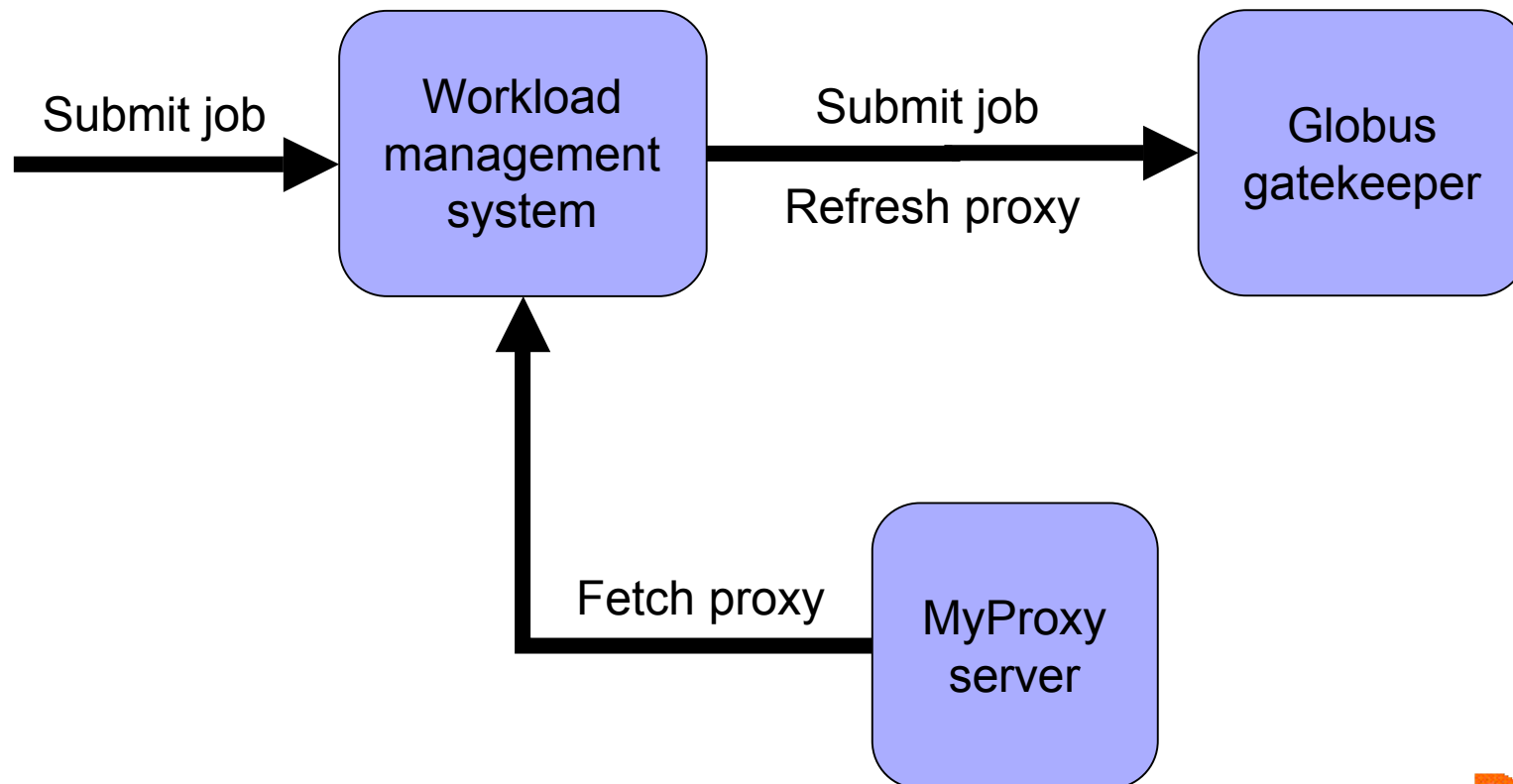
MyProxy
server

Fetch proxy

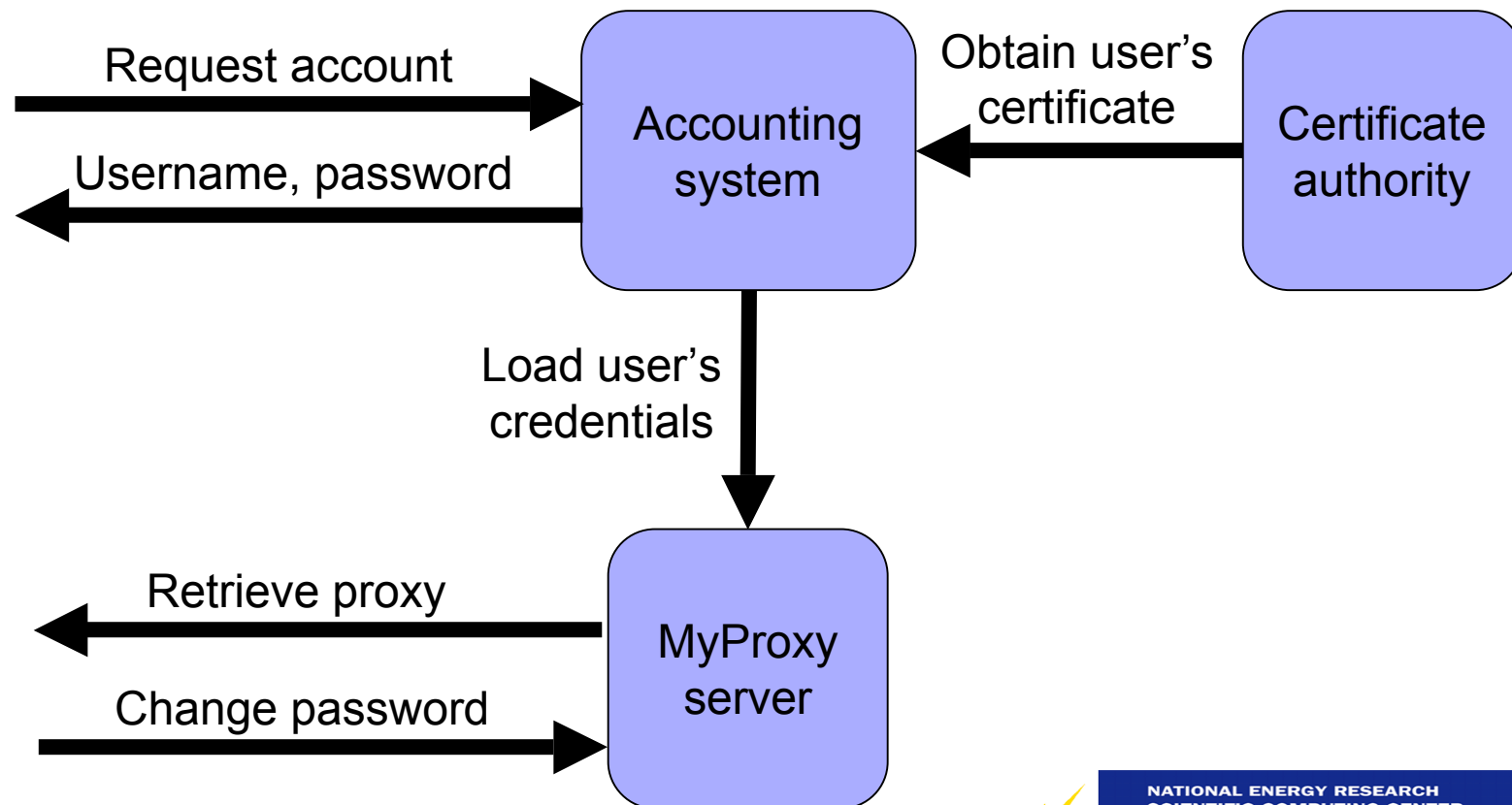
Access data

GridFTP
server

Proxy renewal:

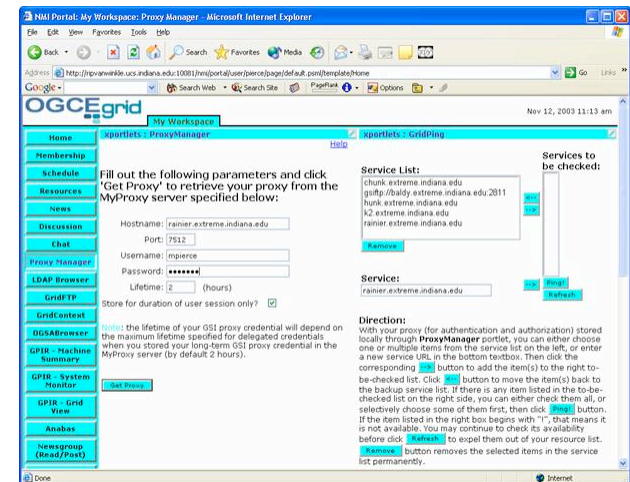


Long-term credential storage:



NMI integration:

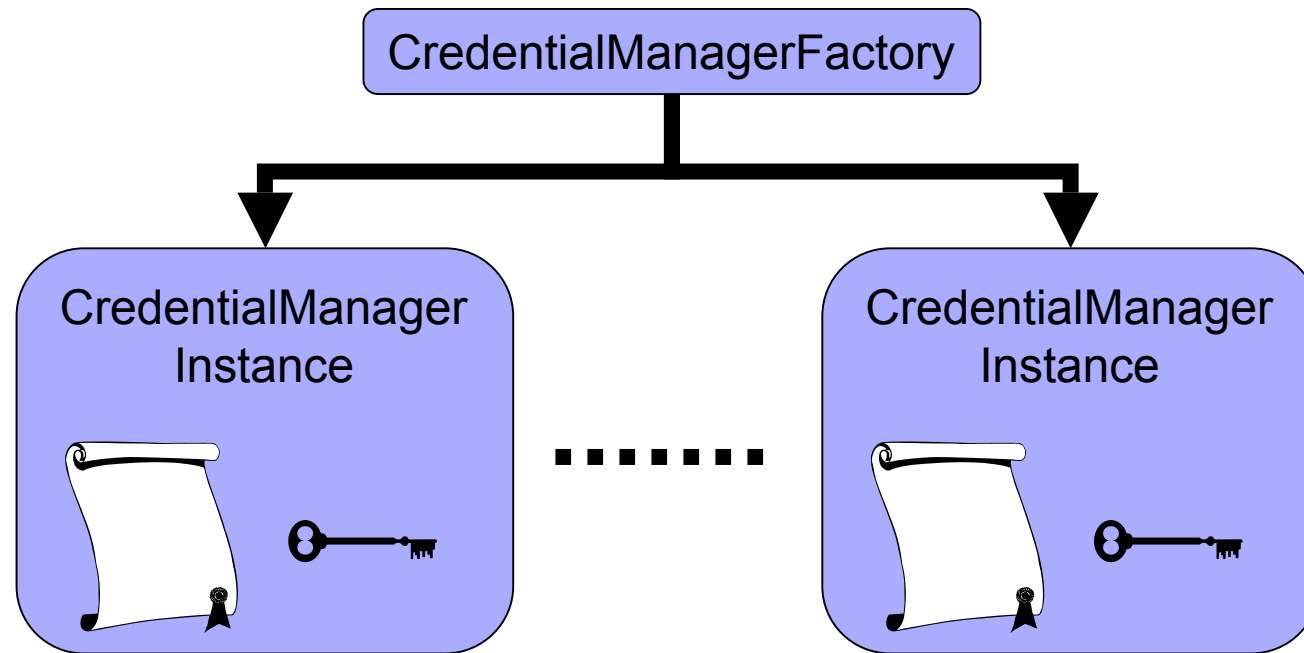
- MyProxy included in NMI R3 & R4
- Packaged with GPT
- Uses Globus Toolkit security libraries
- Used by NMI components:
 - OGCE NMI portal
 - Condor-G



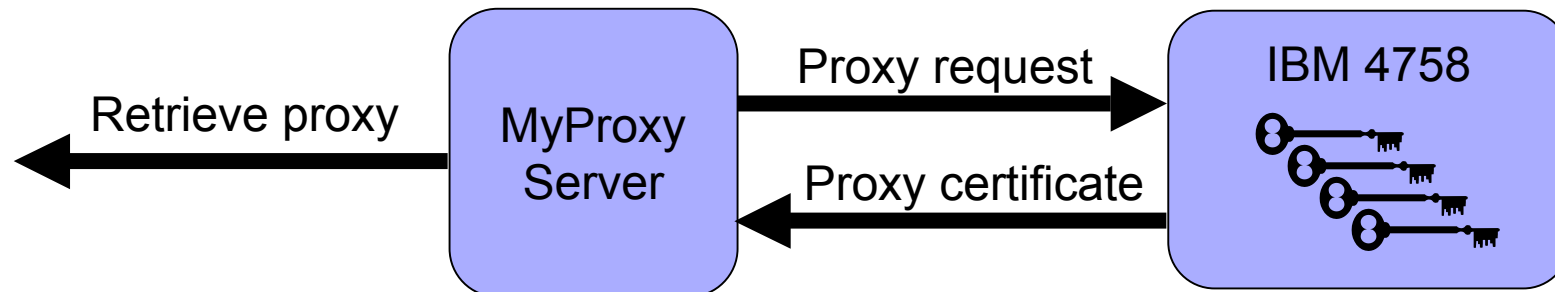
www.ogce.org

MyProxy OGSI implementation:

- Initial release this month for GT 3.0
- Designed to leverage OGSI functionality



Hardware-secured MyProxy:



M. Lorch, J. Basney, and D. Kafura, "A Hardware-secured Credential Repository for Grid PKIs," 4th IEEE/ACM International Symposium on Cluster Computing and the Grid, April 2004.



Ongoing work:

- Continued OGSA development
- Credential access control (XACML, SAML)
- Credential exchange protocols (WS-Trust)
- Audit logging, monitoring, and event notification
- Additional authentication methods (Kerberos, PAM, OTP, SRP)
- Managing multiple credentials



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