Integration of the MyProxy Online Credential Repository into the NSF Middleware Initiative Software Infrastructure

Jim Basney
NCSA

Marty Humphrey
University of Virginia
MyProxy

• Provides a repository for Grid (GSI) proxy credentials
  – Per-credential policy controls how the credential can be retrieved

• Uses
  – Retrieve a proxy credential on demand from any machine without distributing long-term credentials
  – Delegate a proxy credential without modifying existing protocols (example: https to Grid portals)
  – Allow monitored, controlled renewal of delegated proxy credentials rather than delegating long-lived proxy credentials directly
MyProxy Status

- Initially developed at NCSA in 2000 by Jason Novotny and Von Welch for delegating credentials to Grid portals
- Updated to support per-credential authorization, direct retrieval, renewal, and Globus 2.0 in the last year
- Latest version available from http://www.ncsa.uiuc.edu/Divisions/ACES/MyProxy/
- NMI supporting continued NCSA/UVA development July 2002 - June 2004
NMI Deliverables: Year 1

• Prepare for NMI distribution
• Support multiple credentials per user
• Provide a thread-safe C API library
• Integrate with Condor-G
• Support Kerberos authentication and storing Kerberos credentials
• Support audit functions
• Submit OGSA-compliant protocol draft for credential retrieval services (a.k.a. token services) to GGF
• Provide an OGSA-compliant protocol implementation
• Develop and implement an authorization framework for credential repositories
• Develop mechanisms to reduce complexity for users managing multiple credentials