

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

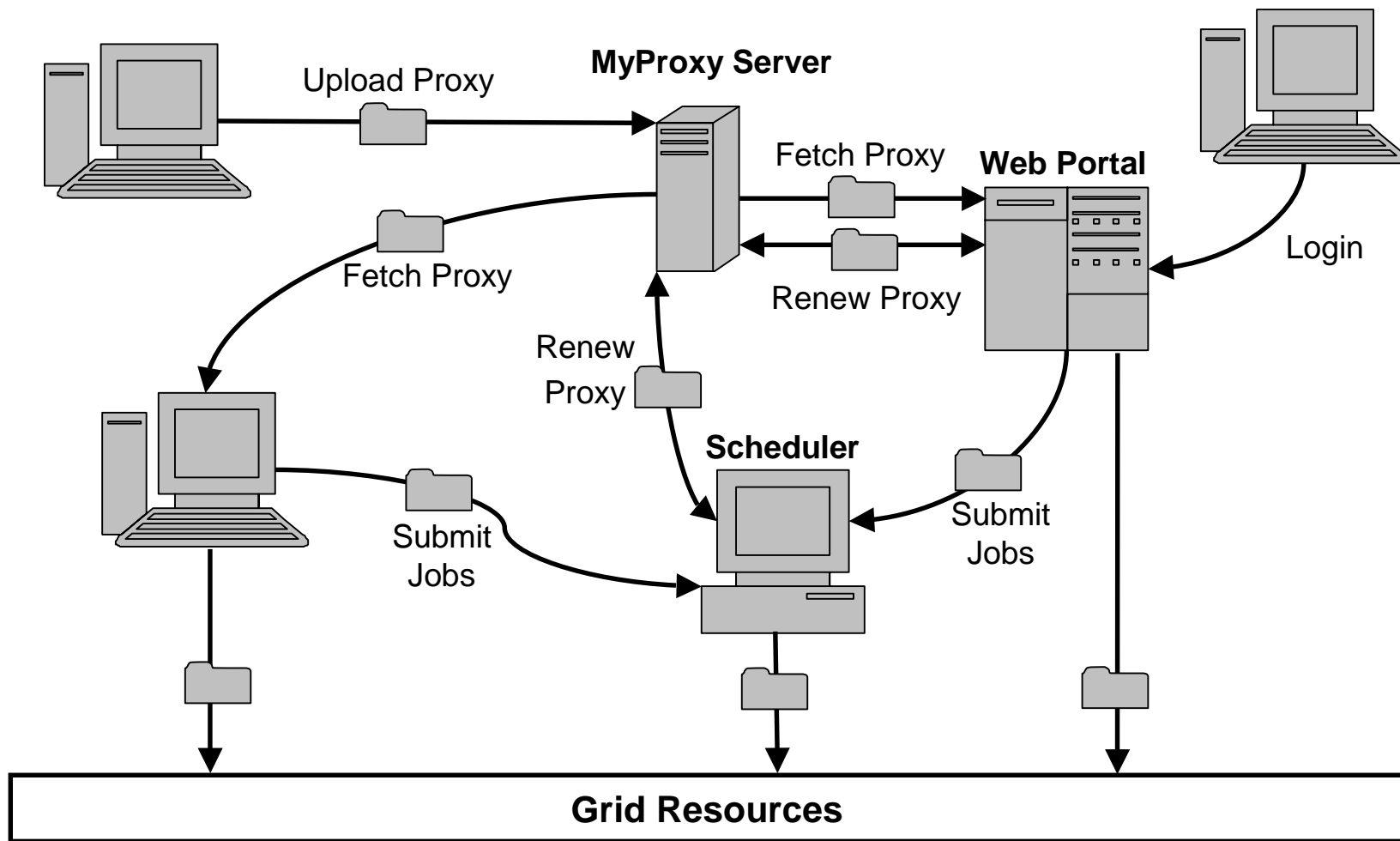
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MyProxy

- **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



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**

NMI Deliverables: Year 2

- **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**