



GlobusWORLD 2011: Globus Toolkit Updates

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Outline

- CILogon Project
- Core Globus Toolkit Components:
 - MyProxy
 - GSI-OpenSSH
- GridShib
- CILogon Service and InCommon

CILogon Project Goals

- Foster secure, usable authentication for cyberinfrastructure (CI)
- Provide community-driven **software** support:
 - MyProxy (<http://myproxy.ncsa.uiuc.edu>)
 - GSI-OpenSSH (<http://grid.ncsa.uiuc.edu/ssh>)
 - GridShib (<http://gridshib.globus.org>)
- Provide a new **service** (<https://cilogon.org/>) that issues certificates to researchers for authentication to cyberinfrastructure

Core GT Components

- MyProxy
 - Certificate Authority and Credential Repository
 - Authentication methods: password, certificate, PAM, OTP, LDAP, SASL, Kerberos, VOMS
 - Client APIs: Java, Python, Perl, PHP, JAAS
 - <http://myproxy.ncsa.uiuc.edu>
- GSI-OpenSSH
 - GSI support for OpenSSH
 - Single sign-on remote login and file transfer
 - High Performance Networking (HPN) updates (PSC)
 - Java GSI-SSHTerm client
 - <http://grid.ncsa.uiuc.edu/ssh>

MyProxy News

- New releases (bug fixes, minor features)
 - GT 5.0.3 contains MyProxy 5.3 (latest release)
 - <http://myproxy.ncsa.uiuc.edu/dl/VERSION>
- Updates for jGlobus 2.0
 - MyProxy jGlobus API unchanged
 - <http://myproxy.ncsa.uiuc.edu/jglobus>
- Fedora/EPEL RPMs available
 - Thanks to Steve Traylen (CERN)
 - <https://admin.fedoraproject.org/updates/myproxy>
- GT 5.2 RPMs in preparation

GSI-OpenSSH News

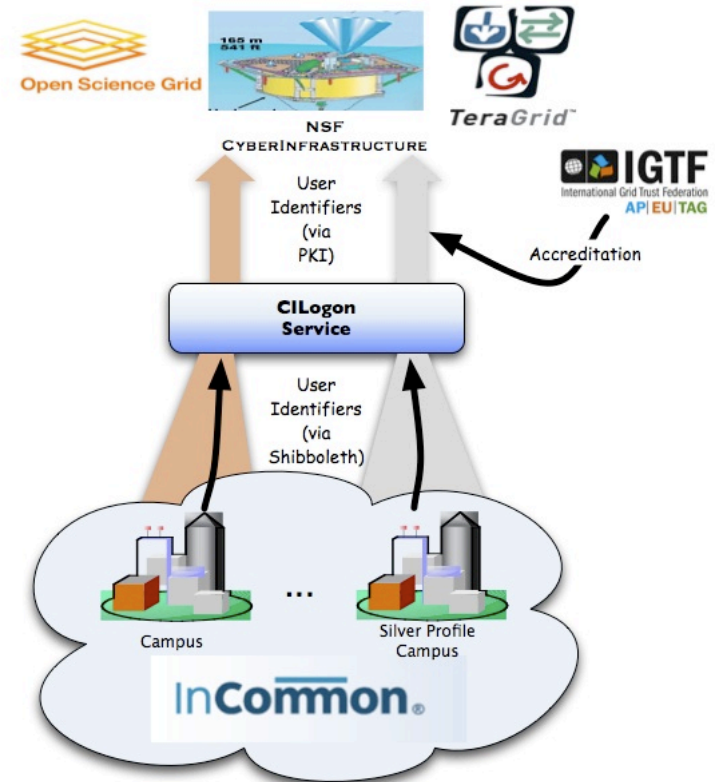
- GSI-OpenSSH 5.2 (latest release)
 - Included in GT 5.0.3
 - OpenSSH 5.6p1 and HPN13v6
- GSI-OpenSSH 5.3 (coming soon)
 - OpenSSH 5.8p1 and HPN13v11
- Fedora/EPEL RPMs in preparation
 - Thanks to Mattias Ellert
 - https://bugzilla.redhat.com/show_bug.cgi?id=683587
- GT 5.2 RPMs in preparation

GridShib

- GridShib-CA
 - Online CA supporting SAML/Shibboleth and OpenID authentication
 - Used by CILogon Service (<https://cilogon.org>)
 - <http://gridshibca.cilogon.org/>
- GridShib SAML Tools
 - For using SAML assertions with certificates
 - Compatible with GRAM5
 - Used by TeraGrid Science Gateways
 - <https://www.teragrid.org/web/science-gateways/security>
 - Updated for jGlobus 2.0
 - <http://gridshib.globus.org/>

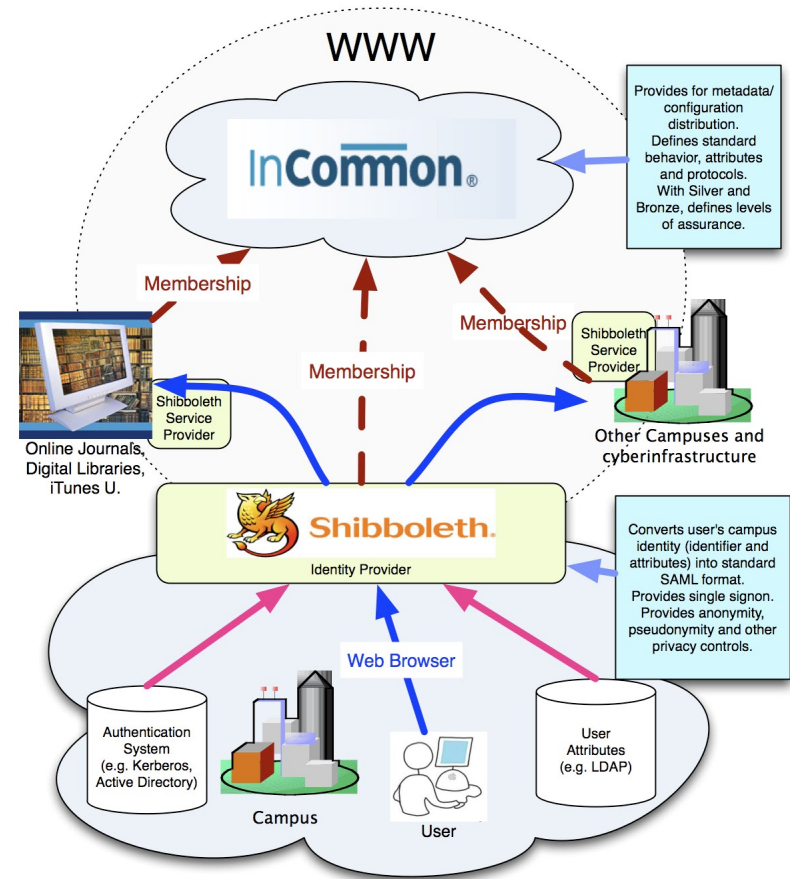
CILogon Service

- Facilitate campus logon to CI
 - Use researchers' existing security credentials at their home institution
 - Ease credential management for researchers and CI providers
- Bridge from:
 - Credentials issued by InCommon Federation members using SAML web browser single sign-on
- Bridge to:
 - Certificates that satisfy the requirements of CI projects



InCommon Federation

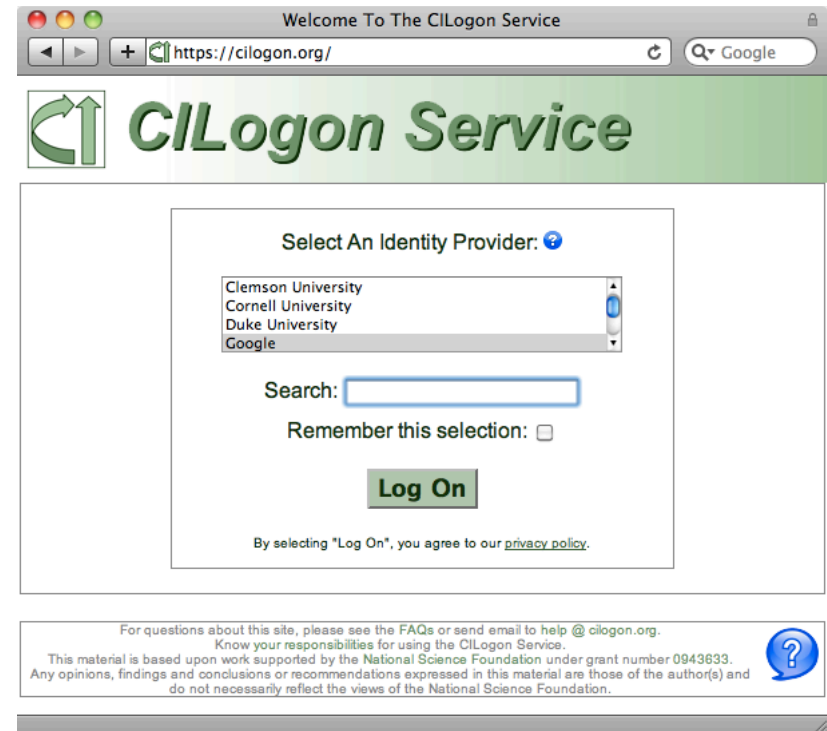
- Facilitates use of campus identity with external service providers
 - Supports adoption of standard mechanisms and policies
 - Distributes SAML metadata that identifies members
- Uses SAML Web Browser Single Sign-On protocols
 - Shibboleth implementation from Internet2
 - Works well for browser-based applications
- InCommon represents >200 institutions (>4m users)



www.incommon.org

CILogon Service

- Delivers certificates to desktop, browser, & portals
- Available certificate lifetimes: from 1 hour to 13 months
- InCommon and OpenID authentication
- Custom appearance and behavior via “skins”
- Available now at <https://cilogon.org>
- More details at <http://www.cilogon.org/faq>



Welcome To The CILogon Service

<https://cilogon.org/> Google

CILogon Service

Select An Identity Provider: ⓘ

- Clemson University
- Cornell University
- Duke University
- Google

Search:

Remember this selection:

Log On

By selecting "Log On", you agree to our [privacy policy](#).

For questions about this site, please see the FAQs or send email to help@cilogon.org.
Know your responsibilities for using the CILogon Service.
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Thanks!