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CILogon – https://cilogon.org/

- Provides personal digital certificates for access to cyberinfrastructure
- Uses federated authentication for user identification
Federated Authentication

• Log on to CILogon using your campus (InCommon) or Google (OpenID) account
Bridging InCommon and IGTF

• Translating mechanism and policy across higher education and grid trust federations
Multiple Levels of Assurance

- CILogon Silver CA
  - InCommon Silver IDs
  - IGTF accredited February 2011
- CILogon Basic CA
  - “Basic” InCommon IDs
  - IGTF accredited June 2014
- Google Authenticator provides second authentication factor
Multiple Interfaces

• SAML/OpenID Web Browser SSO
  – PKCS12 certificate download
  – Certificate issuance via OAuth
  – Coming Soon:
    • OpenID Connect token issuance

• SAML ECP
  – Command-line certificate issuance
ligo-proxy-init using SAML ECP

$ ligo-proxy-init scott.koranda
Your identity: scott.koranda@LIGO.ORG
Enter pass phrase for this identity:
Creating proxy .................................... Done
Your proxy is valid until: Mar 5 13:45:16 2013 GMT
$ grid-proxy-info -all
subject : /DC=org/DC=cilogon/C=US/O=LIGO/CN=Scott Koranda scott.koranda@ligo.org
issuer : /DC=org/DC=cilogon/C=US/O=CILogon/CN=CILogon Basic CA 1
identity : /DC=org/DC=cilogon/C=US/O=LIGO/CN=Scott Koranda scott.koranda@ligo.org
type : end entity credential
strength : 2048 bits
path : /tmp/x509up_u1000
timeleft : 71:59:52 (3.0 days)
Integrated with CyberInfrastructure
Integrated with Globus
Used by OSG Connect

Efficiently connect your science to cycles and data

OSG Connect offers users simple access to distributed high throughput computing resources, and reliable, high-performance file transfer services.

Sign In

Using your InCommon / CILogon login.

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Used by ATLAS Connect

Sign In

This client is requesting access to your account:
Site: https://connect.usatlas.org/oauth
If you approve, please sign in.

Using your InCommon / CiLogon login.

Click PROCEED to authenticate with InCommon / CiLogon.

Proceed

Powered by: US ATLAS Computing Facility, globus, CiConnect

CiLogon www.cilogon.org
Integrated with Campus

- Portal to IU computing resources
  - Get updates on Big Red II, Quarry, and Mason status.
  - Move files from your desktop to IU’s Scholarly Data Archive and Data Capacitor.
  - Monitor and manage running jobs on Big Red II, Quarry, and Mason.
  - Find information on available software.

- Cyberinfrastructure Gateway
  - Login

- Purdue University
  - Information Technology at Purdue Research Computing (RCAC)
  - Log In
  - Sign Up
  - Proceed

- Duke University
  - Ci Connect
  - Sign In
  - Using your InCommon / CILogon login.

- CI Logon
  - www.cilogon.org
CILogon and XSEDE

• CILogon is
  – a component in the XSEDE architecture
  – following the XSEDE engineering process: architecture, design, and security reviews and operational acceptance tests

• XSEDE provides sustained operational support to CILogon users (ATLAS, DataONE, OII, OSG, KBASE, LIGO, etc.)

• Including backup CILogon instance at NICS
Total Identity Providers

- IdPs Added via R&S
- IdPs Added via CiLogon

Jun-10, Sep-10, Dec-10, Mar-11, Jun-11, Sep-11, Dec-11, Mar-12, Jun-12, Sep-12, Dec-12, Mar-13, Jun-13, Sep-13, Dec-13, Mar-14, Jun-14, Sep-14
Replicating CILogon Internationally

Image of a sign-in page with options for selecting an identity provider, including CILogon. Another image shows a page for selecting a home organisation with options like Tuakiri New Zealand Access Federation.
Thanks!

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www.cilogon.org