Middleware And Grid Interagency Coordination (MAGIC) at SC13

Jim Basney
jbasney@ncsa.illinois.edu

This material is based upon work supported by the National Science Foundation under grant numbers 0943633 and 1053575 and by the Department of Energy under award number DE-SC0008597. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the United States Government or any agency thereof.
CILogon – https://cilogon.org/

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

• Log on to ClLogon 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 is accredited by IGTF
  - Using InCommon Silver (Level 2) identities
- IGTF IOTA profile for CILogon Basic under development
- Google Authenticator support for second authentication factor
Identifier-Only Trust Assurance with Secured Infrastructure Authentication Profile

Abstract

This is an Authentication Profile of the IGTF describing the minimum requirements on X.509 PKI authorities where the identity vetting is adequate to ensure unique, non-re-assigned identities, and generated by authorities using secured and trusted infrastructure. Such authorities are not required to collect more data than are necessary for fulfilling the uniqueness requirements, and credentials issued by authorities under this profile may not provide sufficient information to independently trace individual subscribers, and should be used in conjunction with complementary identification and vetting processes.

This Authentication Profile is managed by the EUGridPMA.
Integrated with CyberInfrastructure
Integrated with Globus Nexus
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.

You will now be redirected to InCommon / CiLogon's authentication page.

Proceed
Used by CI Connect for Duke

Efficiently connect your science to cycles and data

CI Connect for Duke offers users simple access to distributed high throughput computing resources, and reliable, high-performance file transfer services.
Integrated with DOE KBase
ligo-proxy-init using CILogon 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)
CILogon and XSEDE

- CILogon is
  - a component in the XSEDE architecture
  - entering the XSEDE engineering process: architecture, design, and security reviews and operational acceptance tests

- XSEDE can provide sustained operational support to CILogon users (DataONE, OOI, OSG, LIGO, etc.)
Adding an IdP to CILogon

- Use self-service web application or contact us for assistance

InCommon Research and Scholarship program helps services connect with identity providers.
Registered Users Per IdP

- Google 25%
- LIGO 14%
- U Chicago 11%
- Indiana U 10%
- ProtectNetwork 7%
- ANL 1%
- JHU 1%
- ANL 1%
- U Washington 1%
- Iowa State 1%
- LBNL 1%
- UNL 1%
- UW-Madison 2%
- Duke 2%
- UIUC 2%
- UCSD 3%
- LBNL 1%
- Iowa State 1%
- U Washington 1%
What’s Next

• SAML interfederation
  – InCommon joining eduGAIN this year
  – International attribute release

• Growth of federated online CAs
  – http://redmine.ogf.org/projects/idel-wg

• Level of Assurance (continued)
  – IGTF IOTA profile
  – Int’l adoption of Kantara standards
  – Security incident handling
  – Multi-factor authentication
Identity Federations in production

AT ACOnet Identity Federation
AU Australian Access Federation AAF
BE Belnet R&E Federation
BR CAFE
CA Canadian Access Federation CAF
CH SWITCHaai
CL CORRe
CZ eduDcz
DE DFN-AAU
DK WAYF
EE TAAT
ES SIR
FI Haka
FR Fédération Éducation Recherche
GP GIPNET
HR AAIpEduHR
HU eduDhu
IE Edugate
IT IDEM
LV GakuNin
LA LAIFE
NL SURF-conext
NO FEIDE
NZ Tuukiri New Zealand Access Federation
PT RCTSaa
SE SWAMID
SI ArnesAAI Slovenika
UK UK Access Management Federation for Education and Research
US InCommon
INT IGF

Identity Federations in pilot

AR MATE
CN CARSI
COL COLPINE
IN INFED
LY LEFT
PE INCA
MA eduIDM
OM Oman Knowledge ID Federation
PL PIONERId
RO RoEduNet Federation
RU IAMRES
SI AAI FEDU
TR YETKİM
ZA SAIF

This map is intended to provide a high-level overview of countries with identity federations. Last update: 14 October 2013
Thanks!

info@cilogon.org
jbasney@ncsa.illinois.edu

www.cilogon.org/faq

dx.doi.org/10.1145/2484762.2484791