Virtual Organisation and Collaboration Infrastructure: COmanage (Enterprise or Hosted)

Scott Koranda
UW-Milwaukee & LIGO

Benjamin Oshrin
Internet2/Spherical Cow Group

I2GS 2014 Denver
COmanage Enterprise:
KAGRA-LIGO
Campuses Have Invested

Single Sign-On (SSO)
Campuses Have Invested

Federated Identity

- Effective, scalable, reliable, secure trust fabric

- Leverage existing vendor integrations
Campuses Have Invested

Federated Identity

- Effective, scalable, reliable, secure trust fabric
- Leverage existing vendor integrations
- Streamlining collaboration for researchers?
Science is Collaborative & Worldwide

**Laser**

**Interferometer**

**Gravitational-wave Observatory**
Science is Collaborative & Worldwide

LIGO Scientific Collaboration

• Approximately 1000 scientists worldwide.
• 5 continents.
• Carries out the LIGO science mission.
• Realizing full science potential requires collaboration with astronomers and astrophysicists from around the world.
• “Science Enterprise”
Collaboration Space

- Building out collaboration space for gravitational wave astronomy community.
- Support collaboration between LIGO and other astronomy & astrophysics communities.
- Wikis, Q&A, document archive, ...
- Gravitational wave candidate event data base (GraceDB)
<Start Demo Here>
Choose how to login:

Use a suggested selection:

LIGO  KAGRA

LIGO  KAGRA

Or enter your organization’s name

Allow me to pick from a list  Help
Login | UWM 1Login - (Private Browsing)

https://idp.uwm.edu/idp/Authn/User

UNIVERSITY of WISCONSIN
UWMILWAUKEE
1Login

ePantherID
What is my ePantherID?

Password

LOG IN

Need help?
Contact the UWM Help Desk
(414) 229-4040
toll-free (877) 381-3459
gettechhelp.uwm.edu

Subject to the UWM Acceptable Use Policy
Sorry!

You are not authorized to view the LIGO Q&A service.

KAGRA collaboration members that have not yet registered should click here and then register. You may mail Yoichi Aso or the LIGO Help Desk with questions.

If you have already registered, you are a LIGO or Virgo collaboration member, or otherwise think you should have access please mail the LIGO Help Desk.
KAGRA collaboration members are eligible to use their KAGRA login credentials to login to some LIGO web services.

Before accessing LIGO web services you must register and the registration must be approved. This is a one-time process.

Click to Register

If you have any questions please email Yoichi Aso or the LIGO Help Desk.
Please choose how to login

Please enter the name of your organization in the box or click to choose from a list.

Use a suggested selection:

LIGO
KAGRA

LIGO Scientific Collaboration
KAGRA

Or enter your organization's name

Milwaukee
University of Wisconsin–Milwaukee

Continue Help
# Self-Registration for KAGRA-LIGO Working Group

Please complete this form to register for the KAGRA-LIGO working group.

<table>
<thead>
<tr>
<th>KAGRA name *</th>
<th>Name as known by KAGRA login server</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honorific</td>
<td></td>
</tr>
<tr>
<td>Given Name *</td>
<td>Scott</td>
</tr>
<tr>
<td>Middle Name</td>
<td></td>
</tr>
<tr>
<td>Family Name</td>
<td>Koranda</td>
</tr>
<tr>
<td>Suffix</td>
<td></td>
</tr>
</tbody>
</table>

Home institution email
Home institution email
Email address from your home institution or university

Email: skoranda@uwm.edu

Organization
Organization (KAGRA is required)

Organization: KAGRA

Valid through
Valid through date for KAGRA–LIGO working group

Valid through: 2015-04-03

Classification
KAGRA–LIGO working group classification (defaults to Member)

Classification: Member

Title
Title or name of role in the KAGRA–LIGO working group

Title: member

Home institution
Home institution (eg. U. of Tokyo or NAOJ)

Home institution: 

* denotes required field
Thank you for registering for the KAGRA-LIGO working group.

Please check your email and click on the link to verify your request.

If you have any questions please email Yoichi Aso or the LIGO Help Desk.
Please confirm LIGO-KAGRA working group email

collaboration_manager@gw-astronomy.org via ligoguest.phys.uwm.edu
to skoranda

You have requested to join the KAGRA-LIGO working group.

Please click the link below to verify the email address you registered. You may be asked to login again after you click the URL.

https://gw-astronomy.org/registry/co_invites/reply/702d64bea86a6c7e33a007c2cf3c8cd18f0524d4

Click here to Reply, Reply to all, or Forward
Invitation to KAGRA-LIGO

Invitation for Scott Koranda

- **KAGRA name**: Name as known by KAGRA login server
  - **Honorific**: 
  - **Given Name**: Scott
  - **Middle Name**: 
  - **Family Name**: Koranda
  - **Suffix**: 

- **Home institution email**: Email address from your home institution or university
  - **Email**: skoranda@uwm.edu
Thank you for registering for the KAGRA-LIGO working group and confirming your registered email address.

Your registration must be reviewed and approved. This is a one-time process.

If you have any questions please email Yoichi Aso or the LIGO Help Desk.
# View CO Petition for Scott Koranda

<table>
<thead>
<tr>
<th>Status</th>
<th>Pending Approval</th>
<th>Approve</th>
<th>Deny</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petitioner</td>
<td>Self Signup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sponsor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approver</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Created</td>
<td>Thu, Apr 3rd 2014, 03:35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modified</td>
<td>Thu, Apr 3rd 2014, 03:39</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Organizational Identity**
- **CO Person**

Powered by COmanage™
Registration in the LIGO-KAGRA working group has been approved

collaboration_manager@gw-astronomy.org via ligoguest.phys.uwm.edu

to skoranda

Your registration for the LIGO-KAGRA working group has been approved.

If you have any further questions please send mail to Yoichi Aso (aso@granite.phys.s.u-tokyo.ac.jp) or the LIGO help desk (rt-auth@ligo.org).
<table>
<thead>
<tr>
<th>#</th>
<th>Votes</th>
<th>Answers</th>
<th>Views</th>
<th>Question</th>
<th>Author</th>
<th>Date</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>9</td>
<td>How do I install and use TeamSpeak?</td>
<td><a href="mailto:chris.pankow@LIGO.ORG">chris.pankow@LIGO.ORG</a></td>
<td>Mar 26 at 12:55</td>
<td>1.4k</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>13</td>
<td>Where can I find batch file documentation for awggui?</td>
<td><a href="mailto:james.batch@LIGO.ORG">james.batch@LIGO.ORG</a></td>
<td>Mar 17 at 18:57</td>
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<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>11</td>
<td>Does Condor time scheduling extend to DAGMan?</td>
<td><a href="mailto:peter.couvares@LIGO.ORG">peter.couvares@LIGO.ORG</a></td>
<td>Mar 14 at 14:15</td>
<td>978</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>10</td>
<td>How do I tell a process to wait for a Condor DAG to complete?</td>
<td><a href="mailto:duncan.macleod@LIGO.ORG">duncan.macleod@LIGO.ORG</a></td>
<td>Mar 14 at 14:09</td>
<td>505</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
<td>13</td>
<td>What precautions should I take when running a multi-process (python) job on the LDG?</td>
<td><a href="mailto:peter.couvares@LIGO.ORG">peter.couvares@LIGO.ORG</a></td>
<td>Mar 14 at 13:57</td>
<td>978</td>
</tr>
<tr>
<td>-1</td>
<td>-1</td>
<td>2</td>
<td>11</td>
<td>Does condor dagman submit high priority jobs first?</td>
<td><a href="mailto:peter.couvares@LIGO.ORG">peter.couvares@LIGO.ORG</a></td>
<td>Mar 14 at 13:54</td>
<td>978</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
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<td>44</td>
<td>Where is a list of the world facing ligo datafind servers?</td>
<td><a href="mailto:peter.couvares@LIGO.ORG">peter.couvares@LIGO.ORG</a></td>
<td>Mar 14 at 13:33</td>
<td>978</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>21</td>
<td>Why does condor limit the number of running dagmans?</td>
<td><a href="mailto:david.koller@LIGO.ORG">david.koller@LIGO.ORG</a></td>
<td>Mar 14 at 13:28</td>
<td>978</td>
</tr>
</tbody>
</table>
COmanage Hosted: MFA Cohortium
MFA Cohortium

- NSTIC-funded I2 virtual working group to advance the use of Multi-Factor Authentication technologies in R&E
- For more: “Multi-Factor Authentication: Do I Need It, and How Do I Get Started?”
  - Tuesday @ 3pm
  - Governor's Square 10
- Hosted COmanage for Cohortium, also POC for more general hosted solution
Virtual Organisaton and Collaboration Infrastructure
I2GS 2014
Identifiers

- Can't rely on ePPN due to account linking
- Platform specific identifier assigned to each Person
  - Configured as first.last (eg: pat.lee)
- Automatically assigned on petition approval
- When logging into a service, Shib SP maps ePPN to Cohortium ID via LDAP
## Configuring Identifier Assignment

### Edit Cohortium ID

<table>
<thead>
<tr>
<th>Description</th>
<th>Cohortium ID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Cohortium ID</td>
</tr>
<tr>
<td><strong>Email Type</strong></td>
<td>For Identifier Assignments applied to Type Mail, an Email Address (instead of an Identifier) will be created with this type (if not blank)</td>
</tr>
<tr>
<td><strong>Login</strong></td>
<td>Allow this identifier to login to Registry</td>
</tr>
<tr>
<td><strong>Algorithm</strong></td>
<td>The algorithm to use when generating identifiers</td>
</tr>
<tr>
<td><strong>Format</strong></td>
<td>See Configuring Registry Identifier Assignment for details</td>
</tr>
</tbody>
</table>

**Note:**
- For Identifier Assignments applied to Type Mail, an Email Address (instead of an Identifier) will be created with this type (if not blank).
- Allow this identifier to login to Registry.
- The algorithm to use when generating identifiers.
- See Configuring Registry Identifier Assignment for details.

_Virtual Organisation and Collaboration Infrastructure_  
_I2GS 2014_
# Groups Drive Authorization

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Open</th>
<th>Status</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin</td>
<td>MFA Cohortium Administrators</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>admin:Cohortium Members</td>
<td>Cohortium Members Administrators</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>admin:Community Participants</td>
<td>Community Participants Administrators</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>business</td>
<td>MFA Cohortium Business subgroup</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>cmp</td>
<td>MFA CMP Administrators</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>cohortium</td>
<td>Primary group for participants</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>cohortium-reg</td>
<td>MFA Cohortium Contact</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>deployment</td>
<td>MFA Cohortium Deployment subgroup</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>documentation</td>
<td>Documentation Authors</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
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<tr>
<td>institutions</td>
<td>Institutional Participants</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>mfa-4ad</td>
<td>MFA Cohortium Active Directory subgroup</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
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<tr>
<td>mfa-console</td>
<td>MFA Cohortium management console subgroup</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
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<tr>
<td>product</td>
<td>MFA Cohortium Product subgroup</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
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<tr>
<td>support</td>
<td>CMP Support Group</td>
<td>Closed</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
<tr>
<td>tech</td>
<td>MFA Cohortium Tech subgroup</td>
<td>Open</td>
<td>Active</td>
<td><img src="" alt=" " /></td>
</tr>
</tbody>
</table>

Virtual Organisation
I2GS 2014
Groups Drive Authorization

### Edit mfa-4ad

<table>
<thead>
<tr>
<th>Name*</th>
<th>mfa-4ad</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>MFA Cohortium Active</td>
</tr>
<tr>
<td>Open</td>
<td>✔</td>
</tr>
<tr>
<td>Status</td>
<td>Active</td>
</tr>
</tbody>
</table>

* denotes required field

**Members**

- Scott Koranda (Active) Owner
- David Walker (Active) Owner
- Mike Grady (Active) Owner
- David Scuffham (Active)
- Tom Scavo (Active)
- Marc DeBonis (Active)
- Karen Herrington (Active)
- Brian Arkills (Active)
- Jennifer Ross (Active)
- Cheryl O'Dell (Active)
- Francis Koranda (Active)
- Tim Gleason (Active)
- Ross Wilper (Active)
Configuring Provisioning Targets

Edit ldap://ldap.cohortium.scgvm.net

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server URL</td>
<td>ldap://ldap.cohortium.scgvm.net</td>
</tr>
<tr>
<td>Bind DN</td>
<td>cn=admin,dc=cohortium,dc=internet2,dc=edu</td>
</tr>
<tr>
<td>Password</td>
<td>***************</td>
</tr>
<tr>
<td>People DN Identifier Type</td>
<td>Cohortium ID :</td>
</tr>
<tr>
<td>People DN Attribute Name</td>
<td>employeeNumber</td>
</tr>
<tr>
<td>People Base DN</td>
<td>ou=People,dc=cohortium,dc=internet2,dc=edu</td>
</tr>
<tr>
<td>Group Base DN</td>
<td>ou=Groups,dc=cohortium,dc=internet2,dc=edu</td>
</tr>
</tbody>
</table>

Attribute Options

- Enable attribute options for languages
- Enable attribute options for roles

- Enable person objectclass (Required)
- sn (Required)
- cn (Required)
- Enable organizationalPerson objectclass (Required)
- title
- ou
- telephoneNumber
- facsimileTelephoneNumber
- address
- street
- 1
- 2
- postalCode
- Enable inetOrgPerson objectclass (Required)
- givenName
Sample LDAP Entry

```
# francis.koranda, People, cohortium.internet2.edu
dn: employeeNumber=francis.koranda,ou=People,dc=cohortium,dc=internet2,dc=edu
objectClass: person
objectClass: organizationalPerson
objectClass: inetOrgPerson
objectClass: eduPerson
objectClass: eduMember
sn: Koranda
cn: Francis Koranda
title: Participant
givenName: Francis
mail: skoranda@uwm.edu
employeeNumber: francis.koranda
uid: skoranda@uwm.edu
eduPersonAffiliation: Member
isMemberOf: business
isMemberOf: deployment
isMemberOf: institutions
isMemberOf: mfa-console
isMemberOf: product
isMemberOf: tech
isMemberOf: vendors
isMemberOf: mfa-4ad
isMemberOf: cohortium
```
Confluence Admin

View User: benn.oshrin

User: benn.oshrin
Full Name: Benn Oshrin
Email: benn@spiralcelcowgroup.com
Directory: Consortium Registry LDAP
Created: Nov 08, 2013 21:49
Last Updated: Mar 03, 2014 01:22
Login: Last Login: Mar 30, 2014 19:20
Current Failed Login Count: 0
Groups: admin, cmp, documentation, support

View Profile  Edit Groups  Edit Details
<table>
<thead>
<tr>
<th>Admin</th>
<th>Email</th>
<th>Subgroup</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin</td>
<td><a href="mailto:business@lists.coHORTium.internet2.edu">business@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Business subgroup</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:cmp@lists.coHORTium.internet2.edu">cmp@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium CMP Core</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:cohortium-reg@lists.coHORTium.internet2.edu">cohortium-reg@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Contact</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:deployment@lists.coHORTium.internet2.edu">deployment@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Deployment subgroup</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:mfa-4ad@lists.coHORTium.internet2.edu">mfa-4ad@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Active Directory subgroup</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:mfa-cohort@lists.coHORTium.internet2.edu">mfa-cohort@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Management Console subgroup</td>
</tr>
<tr>
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<td><a href="mailto:mfa-console@lists.coHORTium.internet2.edu">mfa-console@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Product subgroup</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:product@lists.coHORTium.internet2.edu">product@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Tech Support Contact</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:support@lists.coHORTium.internet2.edu">support@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Tech subgroup</td>
</tr>
<tr>
<td>admin</td>
<td><a href="mailto:tech@lists.coHORTium.internet2.edu">tech@lists.coHORTium.internet2.edu</a></td>
<td>MFA Cohortium Tech subgroup</td>
</tr>
</tbody>
</table>
Sympa

Virtual Organisation and Collaboration Infrastructure
I2GS 2014
More Info

- COmanage
  - http://www.internet2.edu/comanage
  - https://spaces.internet2.edu/display/COmanage
- MFA: https://wiki.cohortium.internet2.edu
- LIGO: http://ligo.org
- KAGRA: http://gwcenter.icrr.u-tokyo.ac.jp/en