Getting Users Onto Your Campus Cluster

Scott Koranda

Spherical Cow Group

April 28, 2014
Many campuses are now realizing the need to bring research computing to all researchers on campus.

Hopefully most make the decision to deploy HTCondor!
How do we manage getting users onto the cluster? (onboarding)

How do we manage offboarding users?

Onboarding/Offboarding/Enrollment/Registration
Standard approach: somebody pulls together a few scripts.

One size fits all approach for all users.
Then the reality hits:

- Enrollment for faculty and students must be different.
- Instructors want to onboard students themselves.
- Different research teams want different enrollment policies.
- Important users want to bring on people from other campuses.
- Research teams want group based access controls.
- Need group based accounting.

Each campus is solving this over and over again.
COmanage for Collaboration Management

- Flexible, customizable, extensible enrollment flows.
- Group management.
- Provisioning engine designed so simple things are simple.

NSF funded project (ending this year).
HTCondor developers are eligible to use their University of Wisconsin-Madison NetID credentials to access some LIGO resources.

Before accessing LIGO resources 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 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

University of Wisconsin-Madison

Continue

Powered by COmanage
Apply with approval

Petition Attributes

Please fill out and submit this form to register for access to LIGO web resources as part of the LIGO and HTCondor working group.

Name *
Name as known by UW-Madison

Honorific

Given Name* Scott

Middle Name

Family Name Koranda

Suffix

UW-Madison email

UW-Madison email address

Email* skoranda@uw.edu

* denotes required field

Submit  Reset Form
Thank you for registering for the HTCondor-LIGO working group.

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

If you have any questions please email the LIGO Help Desk.

Powered by COmanage™
Confirm your registration for HTCondor-LIGO working group

collaboration_manager@gw-astronomy.org

to skoranda

Thank you for registering for the HTCondor-LIGO working group. Before your registration can be approved please verify your email address.

Please click the link below, authenticate if necessary, and then click 'Approve' to verify your email address.

This is a one-time step.

https://gw-astronomy.org/registry/co_invites/reply/0ef00e2de5837ae43a9dc1ede327d81b02f8d5e
HTCondor-LIGO

Invitation to HTCondor-LIGO

Invitation for Scott Koranda

- **Name**: Scott Koranda
- **UW-Madison email**: skoranda@uwm.edu

* denotes required field
Thank you for registering for the HTCondor-LIGO working group and confirming your registered email address.

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

After your registration is approved you may login again and upload an SSH key for login access to some LIGO resources.

If you have any questions please email the LIGO Help Desk.
## HTCondor-LIGO Petitions

<table>
<thead>
<tr>
<th>Enrollee</th>
<th>Petitioner</th>
<th>Sponsor</th>
<th>Approver</th>
<th>Status</th>
<th>Created</th>
<th>Modified</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Koranda</td>
<td></td>
<td></td>
<td></td>
<td>Pending Approval</td>
<td>Today, 16:07</td>
<td>Today, 18:13</td>
<td></td>
</tr>
</tbody>
</table>

Powered by [COmanage](http://co-manager.org)
**View CO Petition for Scott Koranda**

<table>
<thead>
<tr>
<th>Action</th>
<th>Actor</th>
<th>Comment</th>
<th>Timestamp</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>Self Signup</td>
<td>Petition created from enrollment flow &quot;Apply with approval (2)&quot;</td>
<td>Sun, Apr 27th 2014, 16:07</td>
</tr>
<tr>
<td>IS</td>
<td>Self Signup</td>
<td>Invitation sent to <a href="mailto:skoranda@uwm.edu">skoranda@uwm.edu</a></td>
<td>Sun, Apr 27th 2014, 16:07</td>
</tr>
<tr>
<td>IC</td>
<td>Scott Koranda</td>
<td>Invitation Confirmed</td>
<td>Sun, Apr 27th 2014, 16:13</td>
</tr>
</tbody>
</table>
Edit Scott Koranda

Name
Scott Koranda (Primary, Official)

Identifiers
- CL11107 (employeeNumber)
- 2003 (uidNumber)
- 5000 (gidNumber)
- /home/scott.koranda (homeDirectory)
- scott.koranda (uid)

Email
skoranda@uwm.edu (Official, Unverified)
## Edit Members of HTCondor-LIGO Group

**Caltech cluster access**

<table>
<thead>
<tr>
<th>Name</th>
<th>CO Person Status</th>
<th>Permissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Koranda</td>
<td>Active</td>
<td>Member, Owner</td>
</tr>
</tbody>
</table>

[Save] [Reset Form]

Powered by COmanage™
Registration to join HTCondor-LIGO has been approved

collaboration_manager@gw-astr

11:19 AM (8 minutes ago)

to skoranda

Your petition to join HTCondor-LIGO as been approved. You may now log in to the platform.

Click here to Reply, Reply to all, or Forward
Add a New SSH Key

Comment

Key Type

Key

* denotes required field

Add
Reset Form

Upload a New SSH Key

Browse...

No file selected.

Upload
The LDAP server must be available and the specified credentials must be valid before this configuration can be saved.

<table>
<thead>
<tr>
<th>Server URL*</th>
<th>daps://ligoguest.phys.uwm.edu</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bind DN*</td>
<td>uri=comanage,ou=system,dc=gw-astronomy,dc=org</td>
</tr>
<tr>
<td>Password*</td>
<td>Password to use for authentication</td>
</tr>
<tr>
<td>People DN Identifer Type*</td>
<td>Employee Number</td>
</tr>
<tr>
<td>People DN Attribute Name*</td>
<td>employeeNumber</td>
</tr>
<tr>
<td>People Base DN*</td>
<td>ou=people,o=HTCondor-LIGO,dc=gw-astronomy,dc=org</td>
</tr>
<tr>
<td>Group Base DN</td>
<td>ou=groups,o=HTCondor-LIGO,dc=gw-astronomy,dc=org</td>
</tr>
<tr>
<td>Attribute Options</td>
<td>XXX link to documentation</td>
</tr>
<tr>
<td></td>
<td>Enable attribute options for languages</td>
</tr>
<tr>
<td></td>
<td>Enable attribute options for roles</td>
</tr>
<tr>
<td></td>
<td>Enable person objectclass (Required)</td>
</tr>
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<td></td>
<td>sn (Required)</td>
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<tr>
<td></td>
<td>cn (Required)</td>
</tr>
<tr>
<td></td>
<td>ENABLE organizationalPerson ObjectCLASS (Required)</td>
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<td></td>
<td>title</td>
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<tr>
<td></td>
<td>ou</td>
</tr>
<tr>
<td></td>
<td>telephoneNumber Office</td>
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<tr>
<td></td>
<td>facsimileTelephoneNumber Fax</td>
</tr>
<tr>
<td></td>
<td>Address Office</td>
</tr>
</tbody>
</table>


skoranda@paprika:~$ ssh -A scott.koranda@parsley.phys.uwm.edu
Creating directory '/home/scott.koranda'.
Linux parsley 3.2.0-4-amd64 #1 SMP Debian 3.2.51-1 x86_64

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

parsley:~>
Questions for the community

- What enrollment flows do you need?
- What other identifiers (uid, gid, homeDirectory) do you need?
- How do you want to provision SSH keys?
- How do you want to provision home directories?
- How do you want to deprovision?
- Would HTCondor accounting group provisioning be interesting?
Status

- Release 0.8.5.
- Plan 1.0.0 release late summer, early fall.
- Extensible notification engine now in progress.
- Needs polishing and packaging.
- Best-effort community support.
- Paid design, deployment, and support available.
- LIGO is early adopter.
- Additionally, two hosted instances (including applications such as email lists and wikis) run by a vendor.
More information

https://spaces.internet2.edu/display/COmanage/Home

pubsympa@internet2.edu subject: subscribe comanage-community
The mission: get more researchers computing.

Make it simple.