

Globus 2017: Beyond Big Data

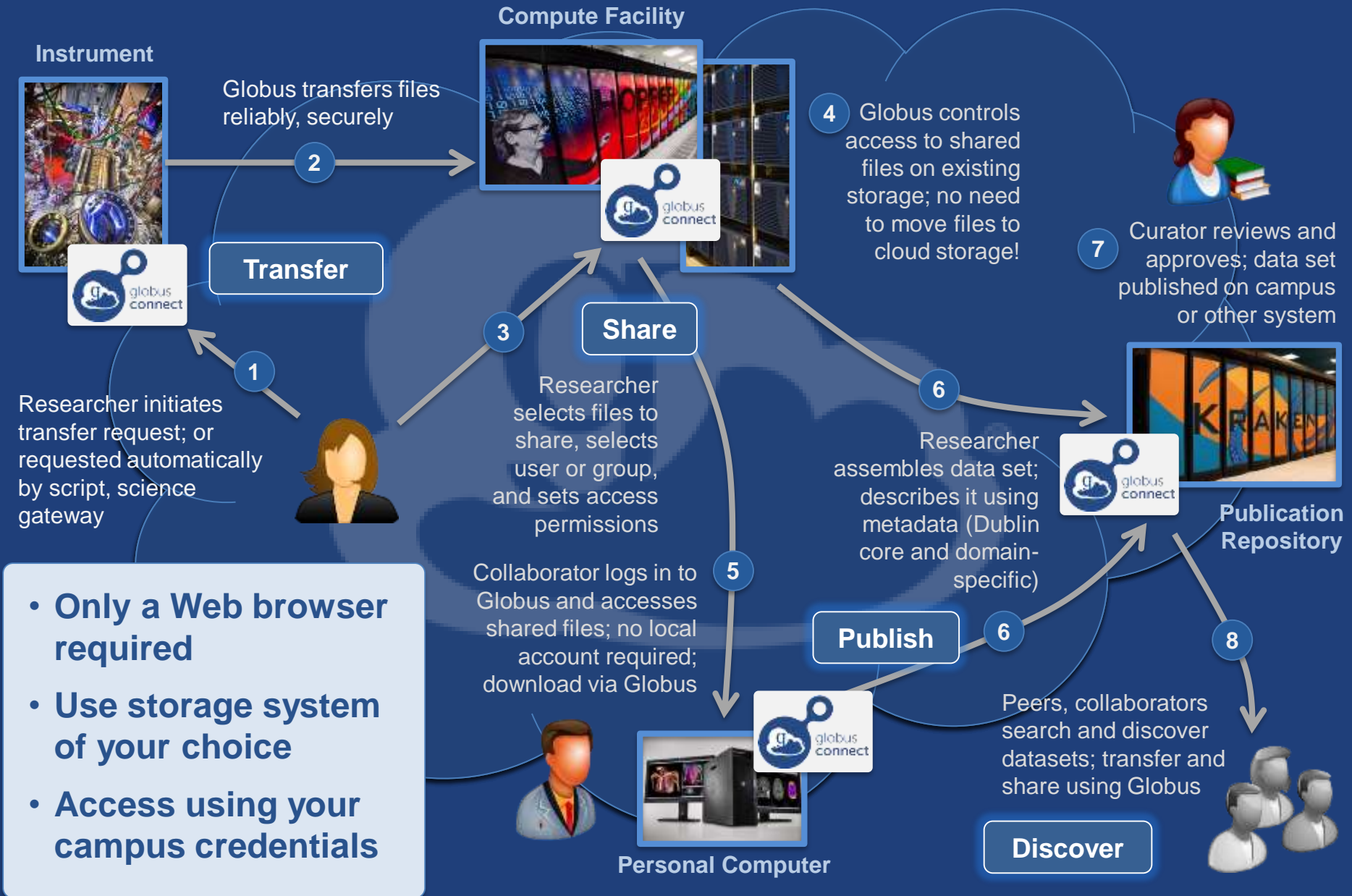
Lee Liming

**University of Chicago &
Argonne National Laboratory**





Globus and the research data lifecycle





Globus by the numbers

48

most server endpoints on one campus

258 PB
transferred

43 billion
tasks processed

56,000
registered users

350

100TB+ users

10,000
active users

3 months

longest running managed transfer

10,000
active endpoints

300+
identity providers

1 PB
largest single transfer to date

5,119
active shared endpoints

99.5%
uptime



Benefits of SaaS

- **Users do not need to deploy software**
 - Easy to access via Web browser
 - Command line, REST interfaces for flexible automation and integration
- **New features automatically available**
- **Reduced IT operational costs**
 - Small local footprint (Globus Connect)
 - Consolidated support and troubleshooting



Demo

- **Login using existing identity**
- **Endpoint search**
- **Transfer**



New features and enhancements

Storage connectors

- **Standard storage connectors (Posix)**

- Linux, Windows, MacOS
- Lustre, GPFS, OrangeFS, etc.

- **Premium storage connectors**

AWS S3

Ceph RadosGW (S3 API)

Spectra Logic BlackPearl

Google Drive

HPSS

HDFS (in progress)

iRODS (in progress)

HGST Active Archive (in progress)

docs.globus.org/premium-storage-connectors

Globus Auth

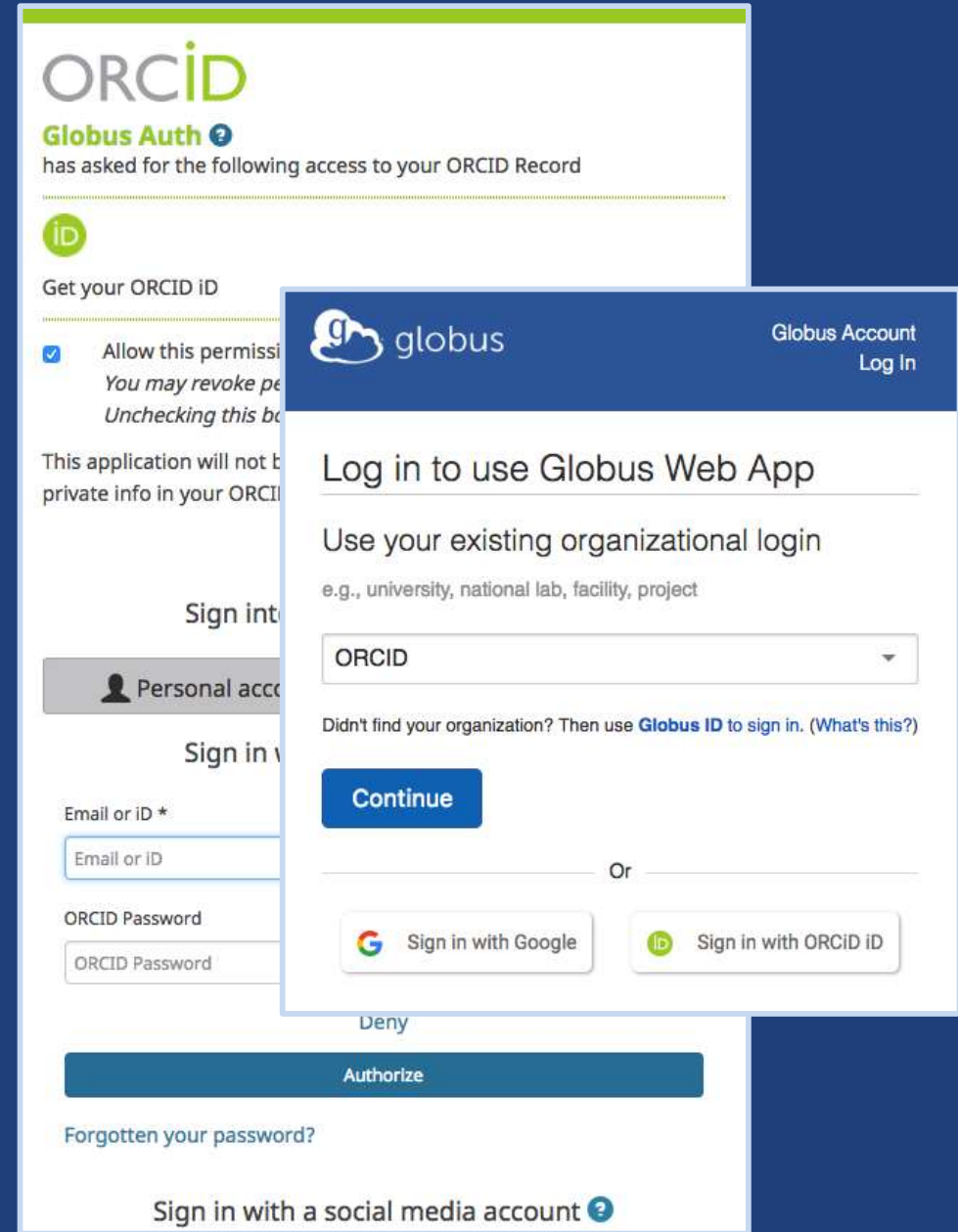
- ORCID
- OpenID Connect compliance
- Email aliases at InCommon domains

Account

Identities

Primary Identity
tuecke@uchicago.edu

Linked Identities
0000-0003-2038-2512@orcid.org
stevetuecke@uchicago.edu
tuecke@globus.org
tuecke@globusid.org
tuecke@uchicago.edu@rda.ucar.edu
tuecke@xsede.org



The screenshot shows the ORCID Globus Auth authorization interface. At the top, it says "ORCID Globus Auth has asked for the following access to your ORCID Record". Below this, there is a section for "Get your ORCID ID" with a checked checkbox for "Allow this permission". A modal window is overlaid on the page, titled "Log in to use Globus Web App". It prompts the user to "Use your existing organizational login" and provides a dropdown menu with "ORCID" selected. Below the dropdown, there is a "Continue" button. At the bottom of the modal, there are buttons for "Sign in with Google" and "Sign in with ORCID ID". The background page also shows a "Personal account" button and a "Sign in with" section with input fields for "Email or ID" and "ORCID Password".



New Command Line Interface

- Transfer and Auth
- Replaces old SSH-based command line shell
- Uses Python SDK
- Open source

```
$ globus
Usage: globus [OPTIONS] COMMAND [ARGS]...

Options:
  -v, --verbose           Control level of output
  -h, --help             Show this message and exit.
  -F, --format [json|text] Output format for stdout. Defaults to text
  --jmespath, --jq TEXT  A JMESPath expression to apply to json output.
                        Takes precedence over any specified '--format' and
                        forces the format to be json processed by this
                        expression
  --map-http-status TEXT Map HTTP statuses to any of these exit codes:
                        0,1,50-99. e.g. "404=50,403=51"

Commands:
  bookmark      Manage Endpoint Bookmarks
  config        Modify, view, and manage your Globus CLI config.
  delete        Submit a Delete Task
  endpoint      Manage Globus Endpoint definitions
  get-identities Lookup Globus Auth Identities
  list-commands List all CLI Commands
  login         Login to Globus to get credentials for the Globus CLI
  logout        Logout of the Globus CLI
  ls            List Endpoint directory contents
  mkdir         Make a directory on an Endpoint
  rename        Rename a file or directory on an Endpoint
  task          Manage asynchronous Tasks
  transfer      Submit a Transfer Task
  version       Show the version and exit
  whoami        Show the currently logged-in identity.
```

github.com/globus/globus-cli

docs.globus.org/cli



Globus Python SDK

- Python SDK for Globus PaaS
- Transfer and Auth APIs
- Open source

github.com/globus/globus-sdk-python



Management Console

globus Manage Data Publish Groups Support Account

[Transfer Files](#) | [Activity](#) | [Endpoints](#) | [Bookmarks](#) | [Console](#)

Management Console

endpoint overview active tasks pause rules

Current Activity

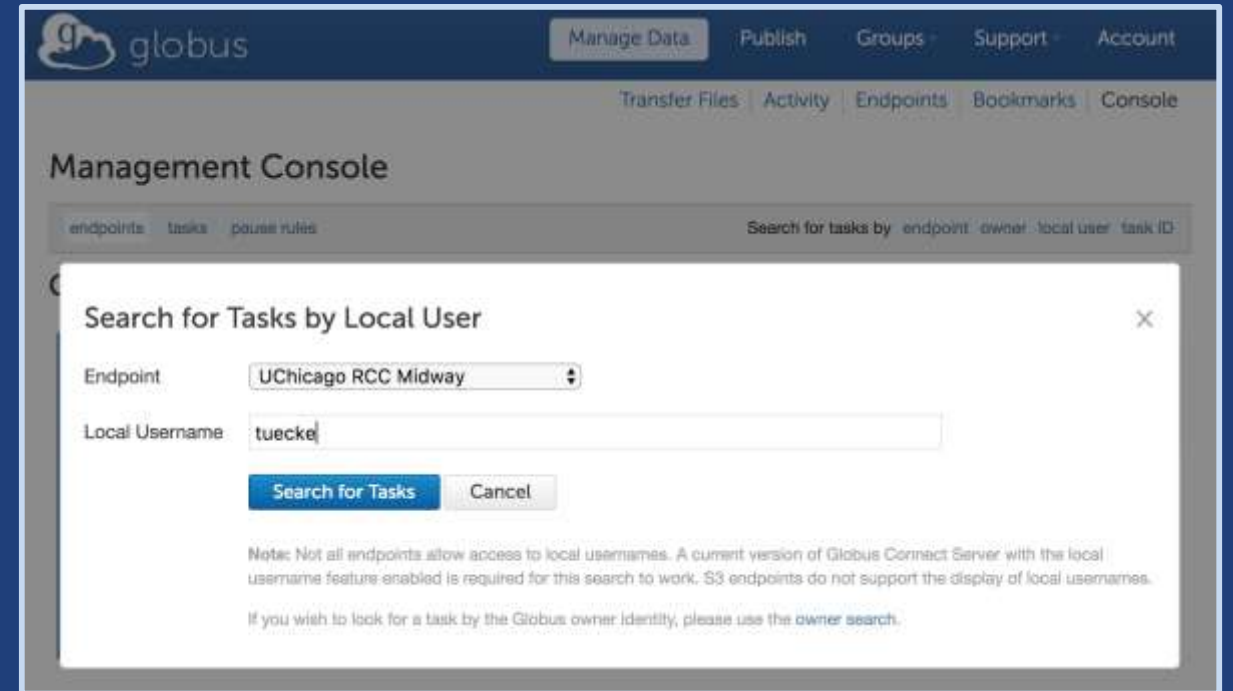
xside# endpoints

The diagram shows activity flow between endpoints and users. On the left, endpoints include xside#comet, xside#darter, xside#ranch, and xside#stampede. On the right, users listed include bsavard, dinpajoo, jhe, krange, maksym, mamun113, qli17, rdsaylor, u_7jnr15w2qel6huoqmr..., and xbdd1125. Green lines connect xside#comet and xside#darter to several users. Orange and yellow lines connect xside#ranch to the same group of users. xside#stampede has no visible connections.

Endpoint	ACTIVE TASKS	OK	RETRYING	WITH FAULTS
xside#comet	1	1	0	0
xside#darter	1	1	0	0
xside#keeneland	0	0	0	0
xside#lonestar	0	0	0	0
xside#mason	0	0	0	0
xside#nautilus	0	0	0	0

Management Console

- **Updated user interface**
 - Shared endpoints
 - MC on shared endpoint
 - Host endpoint admin can see all shares & permissions
 - Search by local account
- **Self-help management console access via roles**
 - Activity manager
 - Activity monitor





HTTPS Access to Endpoints

(coming soon)

- **Enhanced use of research storage:**
 - asynchronous, bulk transfer via GridFTP
 - synchronous remote access via HTTPS
- **Leverages Science DMZ**
- **Enhanced Globus web app**
 - Browser-based upload/download
 - Inline file viewer
- **Integrate with your apps and services**

A busy year of training

- **GlobusWorld Tour:
5 stops, over 200 people**
- **Lots of open source
developer materials**
- **Contact us to host event**



Yale



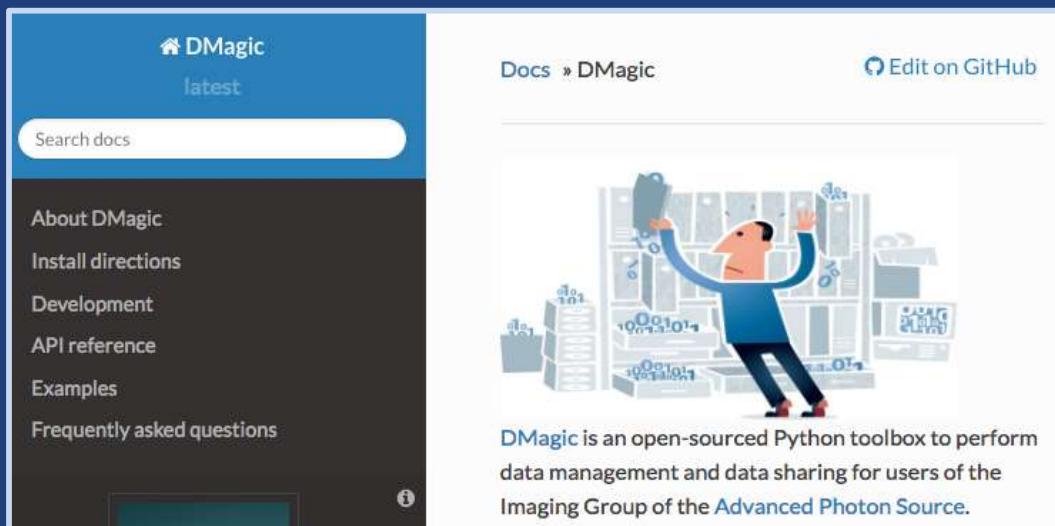
PennState
May 16, 2017



NEW YORK UNIVERSITY
May 31 – June 1, 2017

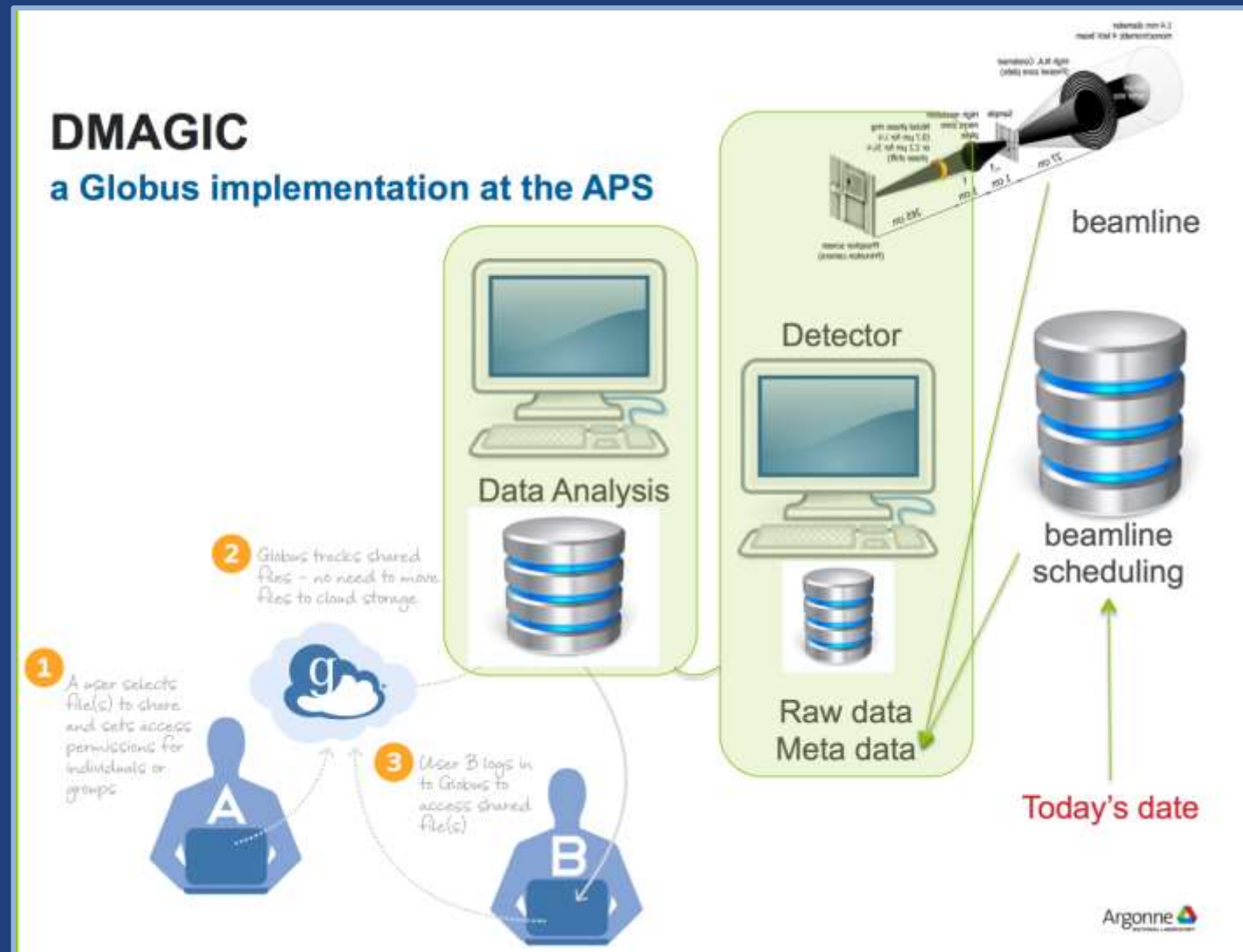
The Globus Platform: Automation

DMagic ANL APS



The screenshot shows the DMagic documentation website. On the left is a navigation sidebar with links for 'About DMagic', 'Install directions', 'Development', 'API reference', 'Examples', and 'Frequently asked questions'. The main content area is titled 'Docs » DMagic' and features an illustration of a person standing next to server racks. Below the illustration, a paragraph states: 'DMagic is an open-sourced Python toolbox to perform data management and data sharing for users of the Imaging Group of the Advanced Photon Source.' There is also a link to 'Edit on GitHub'.

dmagic.readthedocs.io



Courtesy of Francesco De Carlo, Argonne National Laboratory (2016)



The Globus Platform: Automation

Spot Suite Portal LBNL ALS

spot.nersc.gov

← → ↻ ⓘ Not Secure spot.nersc.gov




SPOT About ▾ Status & Tools ▾ Data Browser Simulation ▾ Username Password Sign in

Welcome to the SPOT Suite Portal for Light-Source Data and Simulations.

Log in with your NERSC account at the top right to gain access to data and NERSC compute resources.

This site is a work in progress. Please report any problems with the page to spot-help@lists.lbl.gov

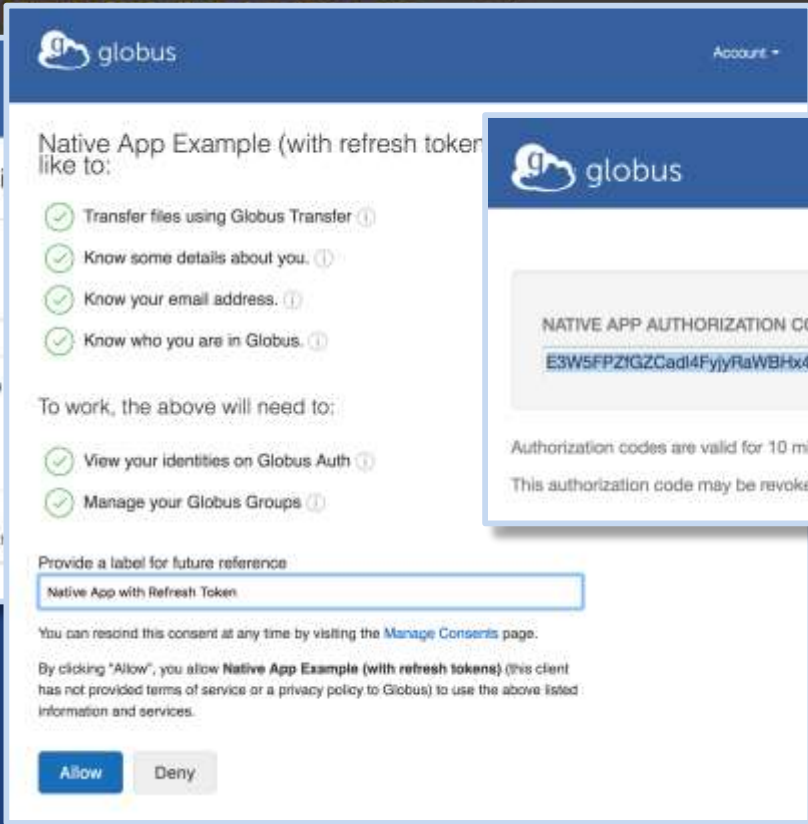
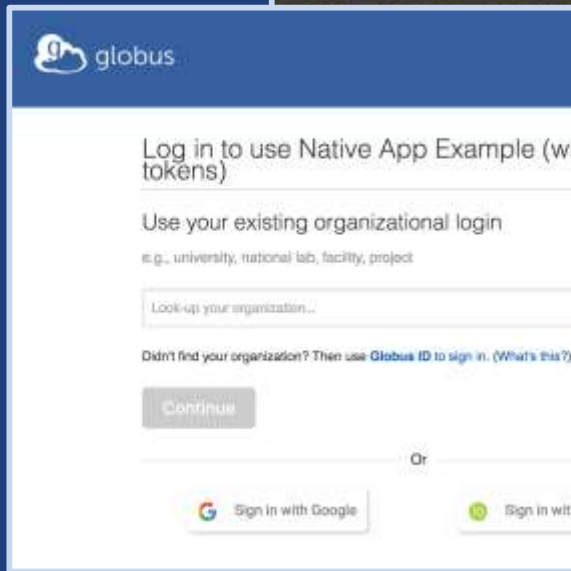
[Learn more. »](#)

© LBL LDRD 2013 Please report any problems with the page to spot-help@lists.lbl.gov. [Web Policies](#).

The Globus Platform: Native App Support

```
(globus) ubuntu@ip-172-31-58-24:~/globus/native-app-examples$ python example_copy_paste_refresh_token.py
Native App Authorization URL:
https://auth.globus.org/v2/oauth2/authorize?code_challenge=3tsuESy-QgRetkC_N_YutELskg0yvCb8GFYEnkThIFc&state=_default&redirect_uri=https%3A%2F%2Fauth.globus.org%2Fv2%2Fweb%2Fauth-code&response_type=code&client_id=079bdf4e-9666-4816-ac01-7eab9dc82b93&scope=openid+email+profile+urn%3Aglobus%3Aauth%3Ascope%3Atransfer.api.globus.org%3Aall&code_challenge_method=S256&access_type=offline
Enter the auth code:
```



```
(globus) ubuntu@ip-172-31-58-24:~/globus/native-app-examples$ python example_copy_paste_refresh_token.py
Native App Authorization URL:
https://auth.globus.org/v2/oauth2/authorize?code_challenge=00D4uKtJL8ZfFDj0ate=_default&redirect_uri=https%3A%2F%2Fauth.globus.org%2Fv2%2Fweb%2Fauth-code&response_type=code&client_id=079bdf4e-9666-4816-ac01-7eab9dc82b93&scope=openid+email+profile+urn%3Aglobus%3Aauth%3Ascope%3Atransfer.api.globus.org%3Aall&code_challenge_method=S256&access_type=offline
Enter the auth code: svnZ5oJ65AM6hbz50IzHj1izvDhvRJ
(globus) ubuntu@ip-172-31-58-24:~/globus/native-app-examples$ python example_copy_paste_access_token.py
Doing a second directory listing with a new access token:
.globus/
shares/
.bash_logout
.bashrc
.profile
(globus) ubuntu@ip-172-31-58-24:~/globus/native-app-examples$
```

github.com/globus/native-app-examples



19-day sample of Globus platform use (March/April 2017)

4665

Non-Globus
IdP Logins

3829

Unique Identities

152 IdPs

2062

Non-Globus Webapp
Logins

1. Jetstream
2. Blue Waters
3. Compute Canada
4. GPCR
5. CIRM
6. XSEDE Moodle
7. KBase

Top 10 IdPs

XSEDE

Google



THE UNIVERSITY OF
CHICAGO



PURDUE
UNIVERSITY

JOHNS HOPKINS
UNIVERSITY

NCSA

I ILLINOIS

UCLA

App registration

globus  developers

 Register your app with Globus

 Developer documentation

© 2010-2017 The University of Chicago [Legal](#)

developers.globus.org

App Registration

App Name

Scopes

Redirects
one per line
must be HTTPS

Required Identity Provider Require a spec

Privacy Policy

Terms & Conditions

Native App Will be used by a native application

For information on registering and using Apps with Globus Auth see the [documentation](#).

Demo MRDP on ECT

Client ID
00e0c09f-c1de-4710-841d-94be00000000

Redirect URLs
https://globus.com/computationalrefine.org/5000
https://globus.com/computationalrefine.org/5000/auth/callback
https://globus.com/computationalrefine.org/auth/callback
https://34.187.78.8:5000/auth/callback
https://34.187.78.8:5000
https://32.72.28.74:5000
https://32.72.28.74:5000/auth/callback

Scopes
no scopes requested for this client

Required Identity Provider
specific identity provider not required

Privacy Policy URL
none provided

Terms and Conditions URL
none provided

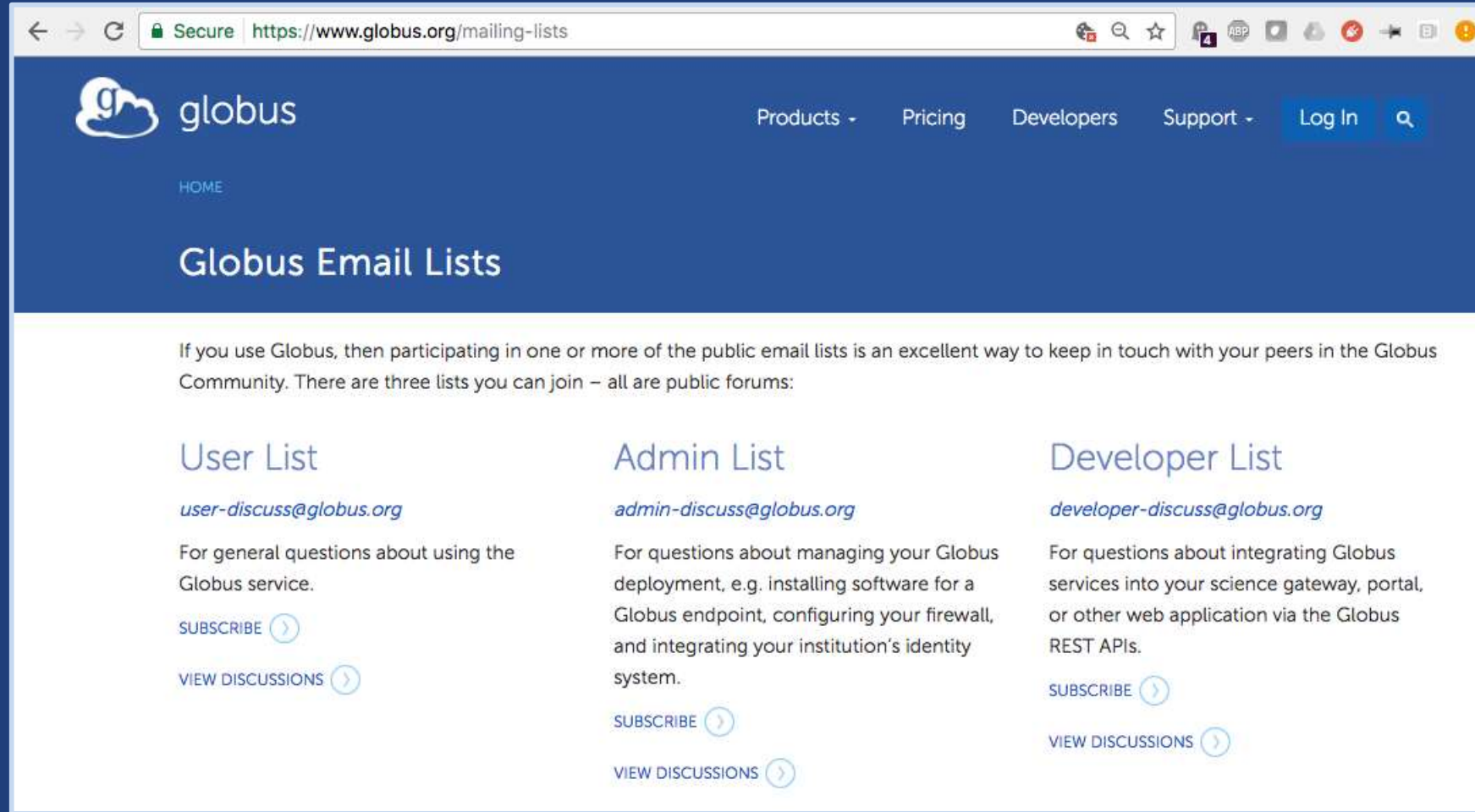
Client Identity Username
00e0c09f-c1de-4710-841d-94be00000000@clients.auth.globus.org

Client Secrets

Sample MRDP on ECT accessed via Globus web site
created 6 months ago



Mailing lists



The screenshot shows a web browser window with the URL <https://www.globus.org/mailling-lists>. The page features the Globus logo and navigation links for Products, Pricing, Developers, Support, and Log In. The main heading is "Globus Email Lists". Below this, a paragraph explains that participating in public email lists is a good way to stay connected with the Globus Community. Three lists are presented: the User List (for general questions), the Admin List (for deployment and configuration issues), and the Developer List (for integration questions). Each list includes its email address, a brief description, and links to subscribe and view discussions.

globus

Products - Pricing Developers Support - Log In

HOME

Globus Email Lists

If you use Globus, then participating in one or more of the public email lists is an excellent way to keep in touch with your peers in the Globus Community. There are three lists you can join – all are public forums:

User List

user-discuss@globus.org

For general questions about using the Globus service.

[SUBSCRIBE](#)

[VIEW DISCUSSIONS](#)

Admin List

admin-discuss@globus.org

For questions about managing your Globus deployment, e.g. installing software for a Globus endpoint, configuring your firewall, and integrating your institution's identity system.

[SUBSCRIBE](#)

[VIEW DISCUSSIONS](#)

Developer List

developer-discuss@globus.org

For questions about integrating Globus services into your science gateway, portal, or other web application via the Globus REST APIs.

[SUBSCRIBE](#)

[VIEW DISCUSSIONS](#)

[globus.org/mailling-lists](https://www.globus.org/mailling-lists)



Thank you to our sponsors



U.S. DEPARTMENT OF
ENERGY

NIST

National Institute of
Standards and Technology
U.S. Department of Commerce



THE UNIVERSITY OF
CHICAGO



Argonne
NATIONAL LABORATORY



powered by
amazon
web services





Endpoint Roles

Manage Endpoints

Endpoint List + add Globus Connect Personal endpoint + add Globus Connect Server endpoint

Globus Project Share on BlueWaters Lustre ready
Shared Endpoint on ncsa#BlueWaters:/projects/vendor/globus/share/ never expires

Overview **Sharing (2)** **Roles (1)**

Manage Roles for Globus Project Share on BlueWaters Lustre

Host Endpoint: [ncsa#BlueWaters](#)
Host Path: /projects/vendor/globus/share/

user or group	role
Steve Tuecke (tuecke@globusid.org)	administrator

Assign New Role to Globus Project Share on BlueWaters Lustre

Assign To * user group

Identity/E-mail *

Role **Administrator**
modify endpoint definition, delete the endpoint, manage roles, perform file system operations and transfers, and all capabilities of the Access Manager role

Access Manager
view, add, and delete all access rules on the endpoint; implicitly gives read/write access to the root of the endpoint

Activity Manager
view and control tasks and other endpoint activity

Activity Monitor
view tasks and other activity to or from the endpoint

Google Drive

Connect Your Google Drive to Globus

Make the data on your Google Drive accessible as an endpoint on Globus.

What do you want to make accessible as a Globus endpoint?

This access will be limited to you unless you decide to share your connected Google Drive with others by adding Globus sharing permissions to your endpoint.

Google Account: stevetuecke@gmail.com (with Globus identity tuecke@globus.org)

Google Drive Folder: /My Drive

Globus endpoint information:
Endpoint Display Name: Google Drive stevetuecke@gmail.com

Google Drive

My Drive > Demo Share

Name	Owner	Last modified
Baltimore-Washington International Airport Climate Data	me	11:41 AM
experiment1	me	11:38 AM
experiment2	me	11:39 AM
LaGuardia Airport Climate Data	me	11:41 AM
Miami International Airport Climate Data	me	11:41 AM
myproject	me	Apr 7, 2017
1M.dat	me	Apr 7, 2017
9606sort.fn	me	11:40 AM
index.html	me	Apr 7, 2017
myproject.tar	me	11:42 AM

globus

Manage Data Publish Groups Support Account

Transfer Files | Activity | Endpoints | Bookmarks | Console

RECENT ACTIVITY 1 0 1

Endpoint: Google Drive stevetuecke@gmail.com Path: /My Drive/Demo Share/

Endpoint: UChicago RCC Midway Path: /~datasets/

Transfer Settings:

- sync - only transfer new or changed files
- delete files on destination that do not exist
- preserve source file modification times
- verify file integrity after transfer
- encrypt transfer

globus

Manage Data Publish Groups Support Account

Transfer Files | Activity | Endpoints | Bookmarks | Console

Manage Endpoints

Endpoint List

- Google Drive stevetuecke@gmail.com (ready)

Overview | Sharing (1) | Roles (2)

Google Drive stevetuecke@gmail.com Shared With

Host Endpoint: GCDSv5 Google Drive for Globus Staff

Storage Type: Google Drive

user or group	read	write
Path: /		
GCDSv5 Google Drive Prod Test 3 (27a93483-8473-45c8-b545-725802b19598@clwms.auth.globus.org)		
Stevie Tuecke (stuecke@globus.org)		
Path: /My Drive/Demo Share/		
Globus Team		

Share Google Drive stevetuecke@gmail.com With

Path: /My Drive/Demo Share/experiment2

Share With: user, group, all users, public

Identity/E-mail: ranantha@uchicago.edu

Username: ranantha@uchicago.edu

Send Email: ranantha@uchicago.edu

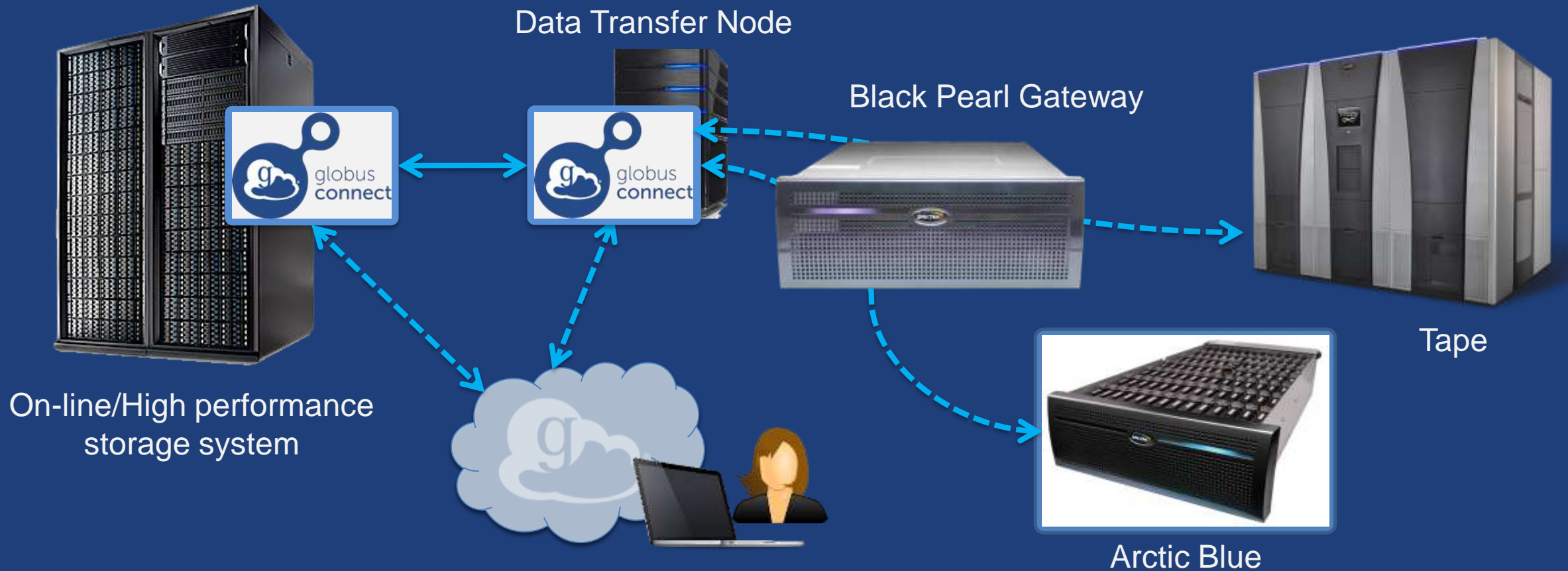
Message: Some data you may be interested in.

Permissions: read, write

Add Permission

docs.globus.org/premium-storage-connectors/google-drive/

Spectra BlackPearl + Globus Solution



docs.globus.org/premium-storage-connectors/black-pearl/



AWS S3, Ceph RadosGW

- Now generally available
- Admin sets up credentials
- User self-registration coming


The image shows two overlapping screenshots. The background screenshot is the Amazon S3 console for the bucket 'ignite-music.org' in the 'US East (N. Virginia)' region. It displays a list of objects including folders like '_Media', '_Resources', and 'sandbox_SquarePerch', and files like 'about-us.html', 'contact-us.html', 'favicon.ico', 'gallery.html', and 'index.html'. The foreground screenshot is the Globus 'Transfer Files' interface, showing the endpoint 'GlobusWorld S3 Demo' and the path '/~/ignite-music.org/'. It displays a list of files and folders with their respective sizes: '_Media' (Folder), '_Resources' (Folder), 'sandbox_SquarePerch' (Folder), 'about-us.html' (4.83 KB), 'contact-us.html' (4.6 KB), 'favicon.ico' (5.24 KB), 'gallery.html' (7.92 KB), and 'index.html' (6.15 KB).

docs.globus.org/premium-storage-connectors/aws-s3/



Globus Auth: Identity and Access Management PaaS

- **Federated identity login to apps**
 - Web, mobile, desktop, command line
- **Protect all REST API communications**



The screenshot shows the Globus Auth login page. At the top left is the Globus logo and the word "globus". At the top right are the links "Globus Account" and "Log In". The main heading is "Log in to use Globus Web App". Below this is the instruction "Use your existing organizational login" followed by examples: "e.g., university, national lab, facility, project". There is a search box with the placeholder text "Look-up your organization...". Below the search box is a link: "Didn't find your organization? Then use [Globus ID to sign in.](#) (What's this?)". A "Continue" button is positioned below the link. At the bottom, there are two buttons: "Sign in with Google" and "Sign in with ORCID ID", separated by the word "Or".

Globus PaaS: Federated Identity Login



XSEDE
Extreme Science and Engineering
Discovery Environment

Account

Jetstream Web App would like to:

- Access all Jetstream resources

By clicking "Allow", you allow Jetstream information and services. You can

[Allow](#) [Deny](#)



FaceBase | Data Browser | Resources | About | Projects | Help | Sign Up | Log In

Selected by: Organism: Human, Mouse, Zebrafish

Showing 1-25 of 663 results, sort by: [Select an attribute] View: [List View]

Download: CSV

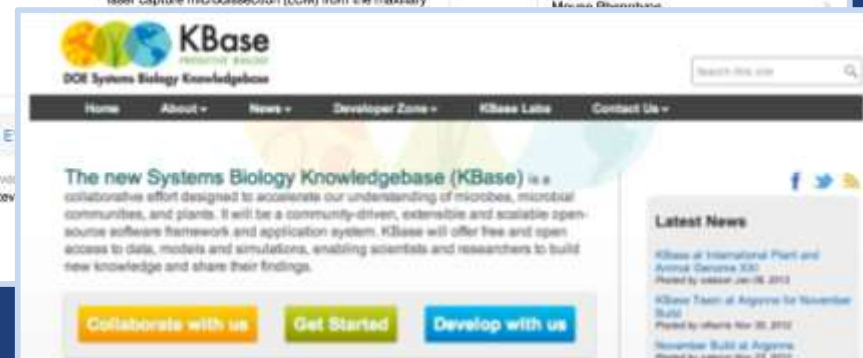
Gene expression microarray - mouse E10.5 maxillary arch

Investigator: Steve Potter
Summary: Gene expression microarray using tissue obtained by laser capture microdissection (LCM) from the maxillary



XSEDE
Extreme Science and Engineering
Discovery Environment

Globus Account Log In



KBase
Systems Biology Knowledgebase

Home | About | News | Developer Zone | KBase Labs | Contact Us

The new Systems Biology Knowledgebase (KBase) is a collaborative effort designed to accelerate our understanding of microbes, microbial communities, and plants. It will be a community-driven, extensible and scalable open-source software framework and application system. KBase will offer free and open access to data, models and simulations, enabling scientists and researchers to build new knowledge and share their findings.

[Collaborate with us](#) [Get Started](#) [Develop with us](#)



compute canada | calcul canada

Compute Canada has partnered with Globus to offer this high performance file transfer service.

Calcul Canada s'est associé à Globus pour vous offrir ce service de transfert de fichier à haute performance.

Log in to use Compute Canada Globus Web App

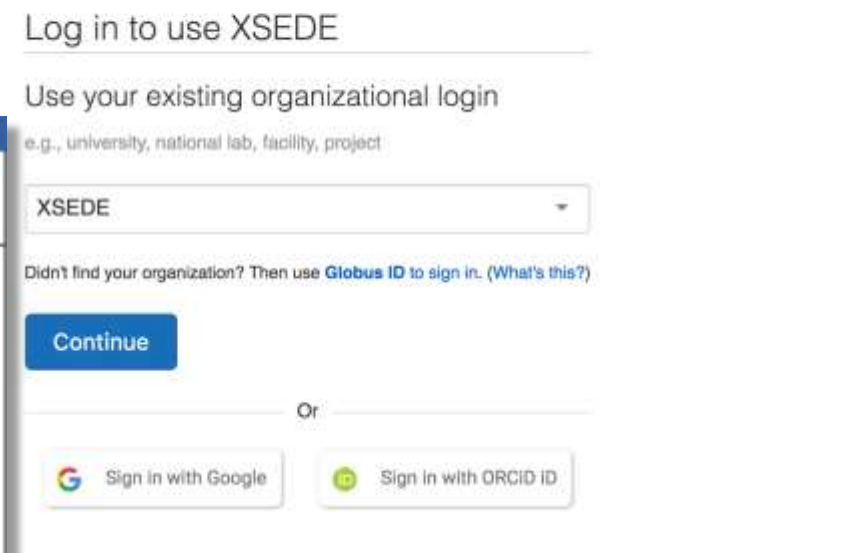
Use your existing organizational login

e.g., university, national lab, facility, project, Google or Globus ID (Your Globus username and password used prior to February 13, 2019 is now Globus ID)

WestGrid

[Continue](#)

Don't find your organization? Then use Globus ID to sign up.



Log in to use XSEDE

Use your existing organizational login

e.g., university, national lab, facility, project

XSEDE

Didn't find your organization? Then use [Globus ID](#) to sign in. (What's this?)

[Continue](#)

Or

[Sign in with Google](#) [Sign in with ORCID ID](#)



What can GPCR Data Explorer

Welcome to the GPCR Data Explorer. The GPCR Data Explorer contains data generated during the process of GPCR structure determination. These data will represent the entire process of GPCR structural biology including all associated constructs and related experimental data generated from those leading academic sites: the University of Southern California in Los Angeles, Human Institute of ShanghaiTech University, and Shanghai Institute of Materia Medica, a member of the Chinese Academy of Sciences.

Click one of the links below to start exploring GPCR data.

[Search Targets: USC | Human | SIMM | AE](#)

[Search Constructs: USC | Human | SIMM | AE](#)



globus Globus Account Log In

Log in to use Globus Web App

Use your existing organizational login
 e.g. university, national lab, facility, project, Google or Globus ID
 (Your Globus username and password used prior to February 13, 2016 is now Globus ID)

University of Chicago

Continue

[Why has this page changed?](#)

Didn't find your organization? Then use Globus ID to sign up.

THE UNIVERSITY OF CHICAGO

CILogon

Sign In

Log in to CILogon
 (CILogon facilitates secure access to Cyberinfrastructure (CI))

CHUID:
 IDENTITY:
 Password:

Signing in allows you to access multiple University of Chicago web applications while entering your CHUID and password only once. To exit your session, simply close your browser.

Questions? Contact the IT Service Service Desk by phone at 2-5800 (773-702-5800), via email at itservice@uchicago.edu, or get walk-in help at the TIC building on the first floor of Regeneron Library during reference desk hours (<http://news.ill.uchicago.edu/>)

Alerts: account holders may contact accountsupport@cilogon.org or call 1-877-530-1943 between 9 AM and 5 PM CET with any questions.

Authentication powered by Okta

globus Account

Globus Web App would like to:

- View your identities on Globus Auth
- Manage your Globus Groups
- Transfer files using Globus Transfer

To work, the above will need to:

- Manage your Globus Groups
- View your identities on Globus Auth

By clicking "Allow", you allow **Globus Web App**, in accordance with its [terms of service](#) and [privacy policy](#), to use the above listed information and services. You can rescind this and other [consents](#) at any time.

Allow

globus Manage Data Publish Groups Support Account

Account

[Manage Your Consents](#) [Logout](#)

Identities

[Manage Your Identities](#) [Add Linked Identity](#)

Primary Identity
 tuecke@uchicago.edu

Linked Identities
 0000-0003-2038-2512@orcid.org
 tuecke@globusid.org
 tuecke@uchicago.edu@rda.ucar.edu
 tuecke@xsede.org

tuecke@globusid.org is managed by Globus ID, where you can change your password, update your profile, and manage SSH and X.509 keys.



Data Publication and Discovery

← → ↻ <https://publish.globus.org/jspui/handle/11466/1> ☆ 📄 ⓘ ☰

 [Log In](#) [Sign Up](#)

To submit a dataset or view datasets that have restricted access, please log in.

Search 🔍

Materials Data Facility Community home page



MATERIALS
DATA
FACILITY

The Materials Data Facility (MDF) is a scalable repository where materials scientists can publish, preserve, and share research data. The repository provides a focal point for the materials community, enabling publication and discovery of materials data of all sizes.

MDF is a pilot project funded by NIST, and serves as the first pilot community of the [National Data Service](#).

Contact [Ben Blaiszik \(blaiszik@uchicago.edu\)](mailto:blaiszik@uchicago.edu) to begin publishing your data.

Browse

Issue Date	Author	Title	Subject
------------	--------	-------	---------



Data Publication

g globus Log In Sign Up

To submit a dataset or view datasets that have restricted access, please log in.

Search

Globus Data Publication (Trial)

Welcome to the Globus data publication "trial sandbox". The [User Guide](#) explains how to publish data. Please [contact us](#) with questions or feedback. When you are ready to create a publication community for your institution, complete [this form](#).

Communities

Choose a community to browse its collections.

- Compute Canada
- Globus Demo Community
- Kansas City Federal Reserve
- Open Trial
Open to all Globus users.
- Pilot Communities
Groups performing trials

Discover

Author

- Pruyne, Jim (3)
- Smith, John (2)
- User, Jane (2)
- smith, asd (1)

Subject

- multiple text files
- Test
- test
- Transient
- Trial
- unverified data

© 2010-2015 Computation Institute, University of Chicago, Argonne National Laboratory [legal](#)

g globus Manage Data Publish Groups Support janesmith

Browse & Discover Data Publication Dashboard Communities & Collections

License Describe Describe Assemble Verify Complete

Submit: Describe Dataset

All fields with an asterisk (*) are required

A name or title by which the data is known

Title * Jane's First Dataset to Curated Trial Collection

The main researchers involved in producing the data

Authors * Smith Jane + Add More

The year when the data was or will be made publicly available

Publication Year * Month: March Day: 15 Year: 2015

Select the language of the main content of the item. If the language does not appear in the list below, please select "Other". If the content does not really have a language (for example, if it is a dataset or an image) please select "N/A".

Language English (United States)

The name of the entity that holds, archives, publishes prints, distributes, releases/issues, or produces the data

Publisher * Trial Sandbox Holdings

< Back Save & Exit Continue >

© 2010-2015 Computation Institute, University of Chicago, Argonne National Laboratory [legal](#)



Data Discovery

The screenshot shows the Globus search results page. At the top, there is a search bar containing the text 'Voorhees'. Below the search bar, the page is titled 'Search Results'. On the left, there is a section for 'Collection results (1 result)' and 'Results 1-6 of 6'. A table lists the search results with columns for 'Issue Date', 'Title', and 'Author(s)'. On the right, there is a 'Discover' sidebar with a list of authors: 'Fife, Julie L.', 'Gibbs, John W.', and 'Voorhees, Peter W.'.

Issue Date	Title	Author(s)
19-Mar-2016	Liquid-solid Metallic Mixture Coarsening Data - 80% solid	Gibbs, John W.; Fife, Julie L.
19-Mar-2016	Liquid-solid Metallic Mixture Coarsening Data - 28% Solid	Gibbs, John W.; Fife, Julie L.
19-Mar-2016	Liquid-solid Metallic Mixture Coarsening Data - 35% Solid	Gibbs, John W.; Fife, Julie L.
19-Mar-2016	Liquid-solid Metallic Mixture Coarsening Data - 55% solid	Gibbs, John W.; Fife, Julie L.
11-Feb-2016	Dataset for Segmentation of Four-dimensional, X-ray Computed Tomography Data	Gibbs, John W.; Fife, Julie L.

The screenshot shows the details page for a dataset. At the top, there is a citation suggestion: 'Gibbs, John W.; Voorhees, Peter W.; Fife, Julie L., "Liquid-solid Metallic Mixture Coarsening Data - 35% Solid," 2016, http://dx.doi.org/doi:10.18126/M2059C'. Below this, there is a 'Download Citation' button. The main content area contains a table with the following information:

Title:	Liquid-solid Metallic Mixture Coarsening Data - 35% Solid
Authors:	Gibbs, John W.; Voorhees, Peter W.; Fife, Julie L.
Issue Date:	19-Mar-2016
Publisher:	Materials Data Facility
URI:	http://dx.doi.org/doi:10.18126/M2059C
Appears in Collections:	Voorhees Group

Below the table, there is a section for 'Endpoint and path to dataset' with the following text: '82f1b5c6-6e9b-11e5-ba47-22000b92c6ec/published/publication_47/'. At the bottom, there is a 'Show full record' button and a 'Return to data publication dashboard' button.



Other future enhancements

- **Symbolic link handling**
 - Keep, copy, or ignore symlinks
- **Data search**
- **Compliance**
 - HIPAA, FedRAMP gap analysis underway



New pricing model



















Globus Subscriptions

Globus file transfer is free to use for non-profit research and educational purposes. Subscriptions offer researchers access to enhanced features such as file sharing and data publication, and provide system administrators with a comprehensive view into how storage systems are being utilized. Your subscription helps us make Globus self-sustaining so we can continue to offer high-quality data management infrastructure to all researchers.

[Click here to start your 90-day free trial of Globus premium features](#)

Subscriptions for Non-Profit Research and Education

If you wish to use Globus in a commercial setting, you must have a [commercial subscription](#).

Features (click  for description)	Basic - Free	Starter Subscription	Standard Subscription
Transfer level 	Unlimited	Unlimited	Unlimited
User level 	Unlimited	Unlimited	Unlimited
Managed endpoints 	None	1	Unlimited
Management console 	—		
Usage reports 	—		
Support for Globus Connect, Web, CLI 	—		
Shared endpoints 	—		
Globus Plus users 	—	—	

<https://www.globus.org/subscriptions>