

# The **Globus Nexus** identity and group management hub

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# We live in a heterogeneous world



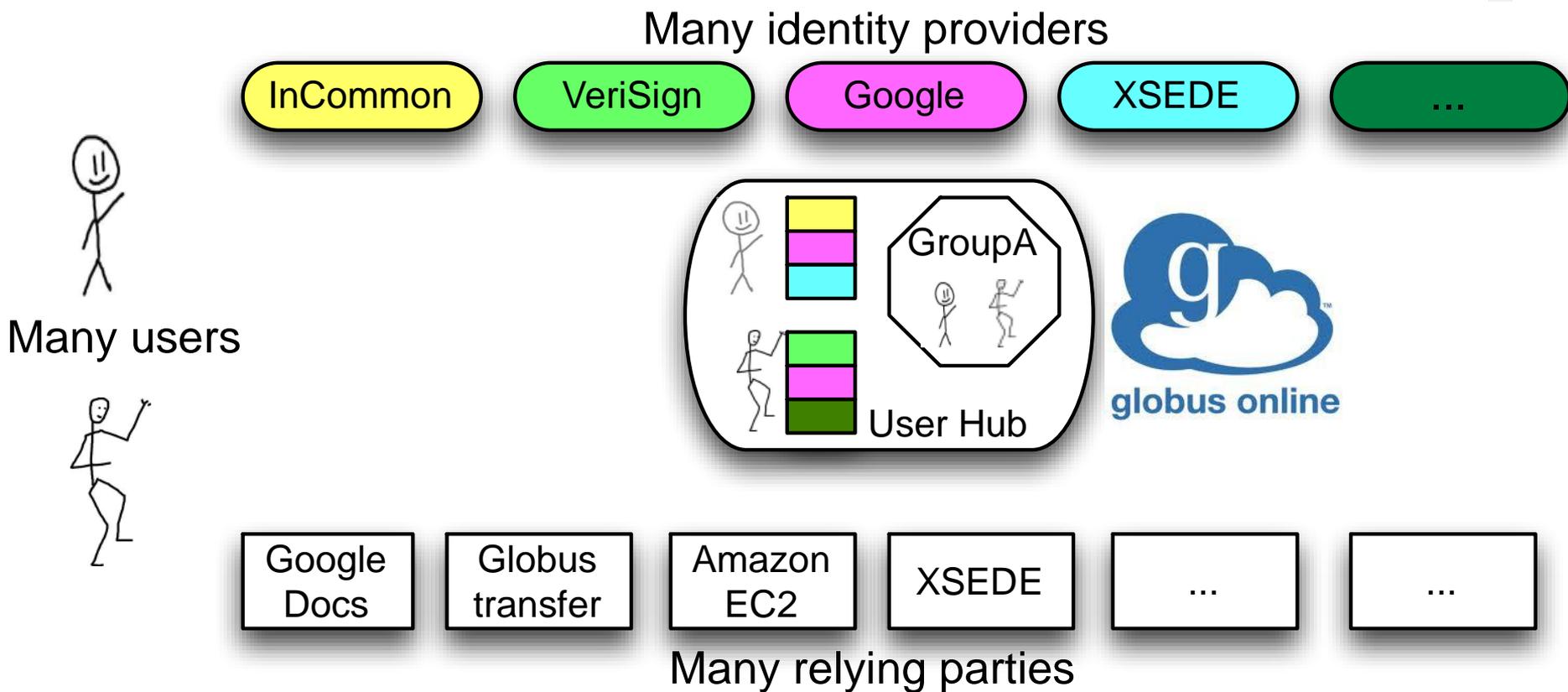
Many identity providers



Many relying parties

Multiplicity of credentials of different types and from different providers  
Multiplicity of relying parties using different federated identity protocols

# An identity hub as a solution



Reliable hosted service that maintains user-identity mappings  
Speaks multiple protocols to simplify integration of IdPs, relying parties



- Allows user to create Globus Online identity and **link with identities** from other federated IdPs
  - E.g., InCommon (SAML), Google (OpenID), XSEDE (OAuth MyProxy), ...
- Acts as **federated IdP** to third-party services
  - E.g., Web sites, Jira, Zendesk, Drupal, Confluence
  - Via various protocols: e.g., SAML, OAuth, OpenID
- Acts as **native IdP** for third party services
  - E.g., kBase uses Globus credential as its native credential
- Caches **delegated credentials** for unattended operation
  - From, e.g., linked IdPs (e.g., XSEDE), CILogon, resource provider MyProxy server

# Sign In

[Sign Up with Globus Online](#)

Use Your GlobusOnline login

[alternate login](#)

Username

Password

[Sign In](#)

[Forgot Password?](#)

Use Your GlobusOnline login

alternate login

Select a different login 

GlobusOnline	LRZ
ARCS	NCSA
Argonne LCF 	NCSA Blue Waters 
Argonne MCS & LCRC	NERSC
BIRN	UChicago CI
CLI Transition	UChicago iBi
ESG ANL	UK NGS
Google 	WestGrid
InCommon / CILogon 	XSEDE 



## Transfer Summary

Requested Today

0 active transfers.

0 transfers completed successfully.

0 inactive transfers.

0 transfers failed.

Requested This Week

0 active transfers.

0 transfers completed successfully.

0 inactive transfers.

0 transfers failed.

Lifetime

0 active transfers.

131 transfers completed successfully.

0 inactive transfers.

49 transfers failed.



## File Transfer

Use your browser to move data securely and reliably.

[Start Transfer](#)

[View Transfers](#)

[Manage Endpoints](#)



## My Profile

View and change your account settings, including contact information and security credentials



## Globus Connect

Use Globus Connect to transfer files between your computer and any Globus Online endpoint.



### SC12 – Visit us in booth 4048

(Nov. 12 – 16): Join us for a first look at new capabilities that make large-scale research data management even easier!

[Details...](#)

**8 Petabytes moved** using Globus Transfer as of October 30th!

Thank you to all our users for your continued support.

## Manage Identities

[Add External Identity](#) ⓘ[Add X.509 Certificate](#) ⓘ[Add SSH Public Key](#) ⓘ

Alias	Type	Authentication Provider			
system-generated openid alias	openid	google.com	<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
CI	myproxy	grid.ci.uchicago.edu	<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
	myproxy	dev.esg.anl.gov:7512	<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
MBook	ssh2	SSH Public Key	<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
galaxy-climate	x509	/O=Grid/OU=DemoG...	<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
InCommon / CILogon Sign In	oauth	cilogon.org	<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>

[Add External Identity](#) ⓘ[Add X.509 Certificate](#) ⓘ[Add SSH Public Key](#) ⓘ

# Transfer Files

Get Globus Connect  
Turn your computer into an endpoint.

Endpoint  Go

Path  Go

Endpoint  Go

Path  Go

Please select an endpoint above.

Please select an endpoint above.

**Activate Endpoint: xsede#trestles**

The administrator of this endpoint, **xsede#trestles**, requires that you authenticate using their MyProxy OAuth server to activate the endpoint. When you click 'Continue' you will be redirected to their website.

[Continue](#) [Cancel](#)

## Welcome to the XSEDE User Portal Authorization Page

### Science Gateway Access

The XSEDE Science Gateway or Service below is requesting access to your XSEDE account. If you approve, please sign in with your XSEDE username and password.

**Note:** Only members of active XSEDE project allocations will be able to sign in on this page.

#### SCIENCE GATEWAY INFORMATION

The XSEDE Science Gateway listed below is requesting access to your XSEDE account. If you approve, please sign in.

*Name:* Globus Online

*URL:* <https://www.globusonline.org/>

#### SIGN IN

Username

Password



Please send any questions or comments about this site to [help@xsede.org](mailto:help@xsede.org).

# Transfer Files

[Get Globus Connect](#)  
Turn your computer into an endpoint.

Endpoint  ▼

Path



Endpoint  ▼

Path

Please select an endpoint

Select an endpoint above.

### Activate Endpoint: mcs#home

Please Enter Your Credentials

\*MyProxy Server

\*Username

\*Passphrase

Server DN

Credential Lifetime  
(hours)

\* Required



[more options](#)

Label This Transfer

# Transfer Files

[Get Globus Connect](#)

Turn your computer into an endpoint.

Endpoint  Go ◀ ▶ Endpoint  Go

Path  Go Path  Go

select all | none ⬆ up one folder 🔄 refresh list ⚙️

 VG.pdf	14.61 kB
---	----------

select all | none ⬆ up one folder 🔄 refresh list ⚙️

 A	Folder
 ACTS_Proposal	Folder
 AW	Folder
 Agencies	Folder
 Applications	Folder
 BACKUPS	Folder
 Backups	Folder
 Benchmarks	Folder
 Book	Folder
 CCST	Folder
 CRPC	Folder
 Chapters	Folder
 Chemistry	Folder
 Chicago	Folder
 ChicagoProposal	Folder
 Climate	Folder
 ClimatePictures	Folder
 Code	Folder
 DBPP_Slides	Folder
 Desktop	Folder



- A group links a set of Globus Online identities
  - Can then project into different linked identity spaces, if/when needed
- Allow users to **self-manage** groups
  - Naming, admission policies, membership, visibility
- Query and update via REST API
- Import and publish via LDAP
- Example uses
  - Basis for authorization in kBase
  - Manage sharing of Globus Online endpoints

Endpoint

Go

Path

Go

select all | none

 up one folder

 refresh list



 VG.pdf

kB

new folder

show hidden files

delete selected files

share



Manage Permissions For `ian#share`Source: `karlito#scdemo:/~/`

name

read

write

delegate

Path: /

ian Foster



start typing a user account name or UUID to add to the list above

Add

Path

/



read



write



delegate

search for users and groups »»



Close

## Find Users & Groups



- cvrg**  
 ▶ managers ▶ members
- BIRNCommunity**  
 ▶ managers ▶ members



« Back to Permissions List

Share Endpoint With Selected

read  write  delegate

## Find Users & Groups

 **cvrg**

▶ managers

▼ members

- Josh Bryan
- Steve Tuecke
- Lisa Childers
- Daniel Morgan

 **BIRNCommunity**

▶ managers

▶ members

« Back to Permissions List

Share Endpoint With Selected

read  write  delegate



## Find Users & Groups

cvrg



**cvrg**



▶ managers

▼ members

- Josh Bryan
- Steve Tuecke
- Lisa Childers
- Daniel Morgan

**BIRNCommunity**



▶ managers

▶ members

« Back to Permissions List

Share Endpoint With Selected



read  write  delegate

Manage Permissions For `ian#share`Source: `karlito#scdemo:~/`

name	read	write	delegate	
<b>Path: /</b>				
Ian Foster	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
 cvrg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	✕

✔ cvrg added successfully.

start typing a user account name or UUID to add to the list above

Add

Path

/

read  write  delegate

search for users and groups »»

Close



- Operated as high-availability, professionally operated service
  - Runs on multiple Amazon availability zones
  - >99.9% availability
- Other services can outsource identity and group management to Globus Nexus, e.g.:
  - DOE systems biology knowledge base (kBase)
  - NIH Biomedical Informatics Research Network (BIRN)
  - Globus Online data management services

# What Globus Nexus hub does not do



- Authorization (but groups and attributes provide a basis for authorization decisions)
- Provide interfaces to support extensible user attributes (but Nexus supports them)
- Support HIPAA data (but we want to)

Thank you!

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@globusonline

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