



# CILogon and OAuth for MyProxy: Federated Authentication to Globus Online and Beyond

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# Outline

- Campus authentication to Globus Online via CILogon
- Globus Online endpoint activation via OAuth for MyProxy
- Getting X.509 certificates directly from CILogon



Sign In | Globus Online

https://www.globusonline.org/SignIn

Reader

globus online

Manage Data | Groups | News & Events | About | Support | Log In | Sign Up

## Sign In

[Sign Up with Globus Online](#)

Use Your GlobusOnline login



Username

Password

[Sign In](#)

[Forgot Password?](#)

Support

### Select a different login

GlobusOnline



ARCS

LRZ

Argonne LCF



NCSA

Argonne MCS & LCRC

NCSA Blue Waters



BIRN

NERSC

CLI Transition

UChicago CI

EGI

UChicago iBi

ESG ANL

UK NGS

Exeter

WestGrid



Google

XSEDE



### MANAGE DATA

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Sign In | Globus Online

https://www.globusonline.org/SignIn#provider=cilogon.org

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Manage Data | Groups | News & Events | About | Support | Log In | Sign Up

## Sign In

Use Your InCommon / CILogon login [alternate login](#)

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

[Proceed](#)

Support

**MANAGE DATA**

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The image displays two screenshots of the Globus Online interface. The top screenshot shows the "Welcome To The CILogon Delegation Service" page, where users are prompted to select an identity provider (such as University of Hawaii, University of Illinois at Chicago, etc.) and log on. The bottom screenshot shows the "Dashboard | Globus Online" page, featuring links for "Manage Data", "Groups", "Support", and "jbasney", along with sections for "Transfer Summary", "File Transfer", "In the Spotlight", and "My Profile".

Welcome To The CILogon Delegation Service

https://cilogon.org/delegate/?oauth\_token=http%3A%2F%2Fcilogon.org%2FserverA%2FtempCred%2Fdelegation2%2F5db4eb4c32639ec46ec8865f5

Reader

globus online

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Show Help

"Globus Online" requests that you select an Identity Provider and click "Log On". If you do not approve this request, do not proceed.

**Site Name:** Globus Online  
**Site URL:** https://www.globusonline.org  
**Service URL:** https://www.globusonline.org/service/graph/authenticate\_oauth\_callback

Select An Identity Provider:

- University of Hawaii
- University of Illinois at Chicago
- University of Illinois At Springfield
- University of Illinois at Urbana-Champaign

Search:

Remember this selection:

**Log On**

By selecting "Log On", you agree to CILogon's privacy policy.



For questions about this site, please see the [FAQs](#) or send email to [help @ cilogon.org](mailto:help@cilogon.org).

Know [your responsibilities](#) for using the CILogon Service.

See [acknowledgements](#) of support for this site.





SAML



Login – University of Urbana  
://shibboleth.illinois.edu/idp/Authn/UserPassword

ILLINOIS LOGIN

You must log in to continue.

Enter your NetID:

Enter your Active Directory (AD) password:

[Forgot your Active Directo](#)  
[To change or reset your A](#)  
[Password Manager](#)

Welcome To The CILogon Delegation Service

globus online

"Globus Online" requests that you select an Identity Provider and click "Log On". If you do not approve this request, do not proceed.

Site Name: Globus Online  
Site URL: https://www.globusonline.org  
Service URL: https://www.globusonline.org/service/graph/authenticate\_oauth\_callback

Select An Identity Provider:

- University of Hawaii
- University of Illinois at Chicago
- University of Illinois At Springfield
- University of Illinois at Urbana-Champaign

Search:

Remember this selection:

By selecting "Log On", you agree to CILogon's privacy policy.

Dashboard | Globus Online

globus online

Manage Data | Groups | Support | jbasney

start transfer | view transfer activity | manage endpoints | dashboard

**Transfer Summary**

Requested Today  
0 active transfers.  
1 transfers completed successfully.  
0 inactive transfers.  
0 transfers failed.  
Requested This Week  
0 active transfers.  
1 transfers completed successfully.  
0 inactive transfers.  
0 transfers failed.  
Lifetime  
0 active transfers.  
2 transfers completed successfully.  
0 inactive transfers.  
0 transfers failed.

**File Transfer**

Use your browser to move data securely and reliably.  
[Start Transfer](#)  
[View Transfers](#)  
[Manage Endpoints](#)

**In the Spotlight**

globusWORLD April 16-18, 2013 Chicago, IL

globusWORLD 2013 is just a few weeks away! Reserve your spot to learn about great new features. Click here for info and to register.

Globus Online passes XSEDE Acceptance Test – making it the first service accepted for production deployment by XSEDE

**My Profile**

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

Login – University of Illinois at Urbana-Champaign

https://shibboleth.illinois.edu/idp/Authn/UserPassword

# ILLINOIS LOGIN

You must log in to continue.

Enter your NetID:

Enter your Active Directory (AD) password:

**Login**

 A red arrow points to the "Login" button, which is highlighted with a red circle.

Forgot your Active Directory password?  
To change or reset your Active Directory password, go to the [CITES Password Manager](#).

## More Information

**Where to Get Help**  
Contact the [CITES Help Desk](#) at [consult@illinois.edu](mailto:consult@illinois.edu).

**What Is a NetID?**  
Your NetID serves as your login to many University computing and networking services and also determines your University email address, which is [netid@illinois.edu](mailto:netid@illinois.edu).  
For more information, see the [Your Network ID \(NetID\)](#) page.

**Technical Information**

Service that has requested authentication:

Service Provider EntityID:  
<https://cilogon.org/shibboleth>

This login service uses the following server:  
[shibboleth.illinois.edu](https://shibboleth.illinois.edu)

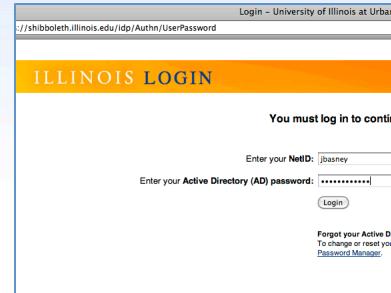
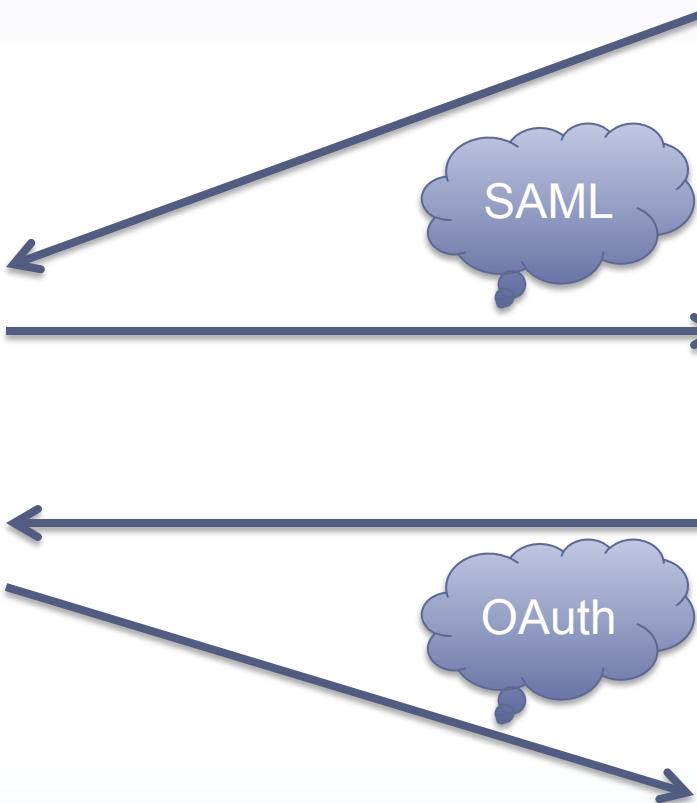
This page's URL should start with https:// followed by the server listed above.

For most web browsers, the security padlock icon for this page should be closed/locked.

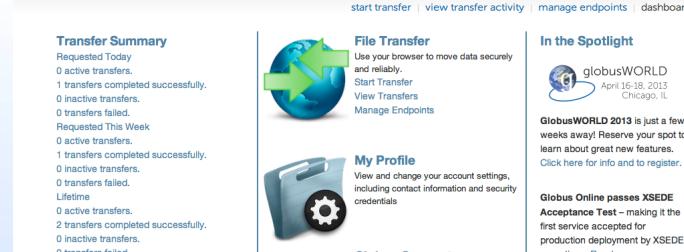
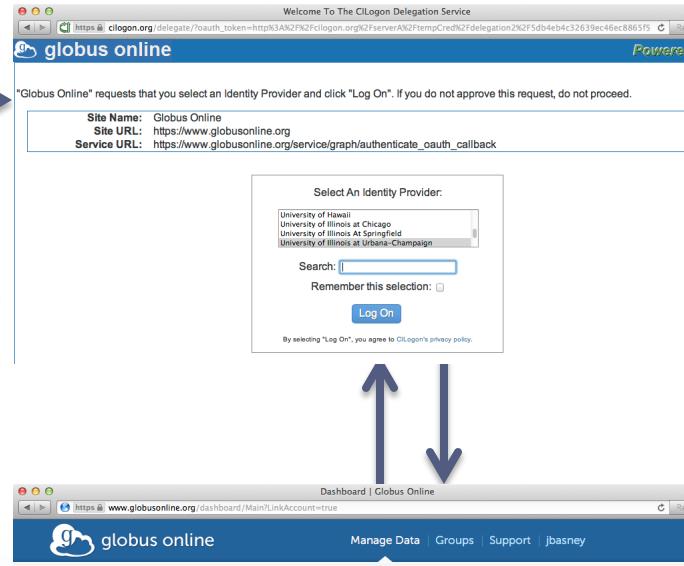
To maximize security, quit your browser when done using this application.



SAML



OAuth





Manage Data | Groups

jbasney



start transfer | view transfer activity | manage endpoints | dashboard

## Transfer Summary

Requested Today

0 active transfers.

1 transfers completed successfully.

0 inactive transfers.

0 transfers failed.

Requested This Week

0 active transfers.

1 transfers completed successfully.

0 inactive transfers.

0 transfers failed.

Lifetime

0 active transfers.

2 transfers completed successfully.

0 inactive transfers.

0 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.

## In the Spotlight



globusWORLD

April 16-18, 2013

Chicago, IL

GlobusWORLD 2013 is just a few weeks away! Reserve your spot to learn about great new features.

[Click here for info and to register.](#)

**Globus Online passes XSEDE Acceptance Test** – making it the first service accepted for production deployment by XSEDE operations. [Read more...](#)

**Announcing Sharing:** Our new sharing service makes it simple for researchers to collaborate securely. [Read more...](#)

Support

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Manage Identities | Account | Globus Online

https://www.globusonline.org/account/ManageIdentities

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update profile | change password | account privacy | group membership | manage identities | log out

## Manage Identities

Add External Identity ⓘ Add X.509 Certificate ⓘ Add SSH Public Key ⓘ

Alias	Type	Authentication Provider	View Details	Update	Delete
InCommon / CILogon Sign In	x509		View Details	Update	Delete
NCSA Blue Waters	oauth		View Details	Update	Delete
XSEDE Sign In	oauth		View Details	Update	Delete

Add External Identity ⓘ Add X.509 Certificate ⓘ Add SSH Public Key ⓘ

Support

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- [release notes](#)
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Email Address (Required)



InCommon / CILogon Sign In

Start Transfer | Transfer | Globus Online

https://www.globusonline.org/xfer/StartTransfer

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Manage Data | Groups | Support | jbasney

start transfer | view transfer activity | manage endpoints | dashboard

Get Globus Connect  
Turn your computer into an endpoint.

## Transfer Files

Please select an endpoint above.

Endpoint enter endpoint name ▼ Go

Path Go

Endpoint enter endpoint name ▼ Go

Path Go

Activate Endpoint: xsede#stampede

The administrator of this endpoint, xsede#stampede, 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

more options Label This Transfer

This will be displayed in your transfer activity.

Support



XSEDE User Portal Delegation Authorization

https://portal.xsede.org/oauth/authorize?oauth\_token=myproxy%3Aoa4mp%2C2012%3A%2FtempCred%2F6c23ad01e3aa475185c361a0fe1e6983

XSEDE  
Extreme Science and Engineering Discovery Environment

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

**SIGN IN** **CANCEL**

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

DATA SAMPLE PART 01:  
The XSEDE User Portal Delegation Authorization page is displayed. It shows the XSEDE logo and the URL https://portal.xsede.org/oauth/authorize?oauth\_token=myproxy%3Aoa4mp%2C2012%3A%2FtempCred%2F6c23ad01e3aa475185c361a0fe1e6983. The page title is "XSEDE User Portal Delegation Authorization". The main content is "Welcome to the XSEDE User Portal Authorization Page" under "Science Gateway Access". It states that the XSEDE Science Gateway or Service is requesting access to the user's XSEDE account. A note says "Note: Only members of active XSEDE project allocations will be able to sign in on this page." On the left, there is "SCIENCE GATEWAY INFORMATION" for "Globus Online" with URL https://www.globusonline.org/. There are "SIGN IN" fields for "Username" and "Password" with "SIGN IN" and "CANCEL" buttons. A red arrow points to the "SIGN IN" button, which is circled in red. At the bottom, there is a link to "help@xsede.org". The background features a blue globe graphic.



## MyProxy Credential Management Service



Start Transfer | Transfer | Globus Online

https://www.globusonline.org/xfer/StartTransfer?dest=xsede%23stampede

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Manage Data | Groups | Support | jbasney

start transfer | view transfer activity | manage endpoints | dashboard

Get Globus Connect  
Turn your computer into an endpoint.

## Transfer Files

Endpoint xsede#trestles

Path /~/

select all | none up one folder refresh list

hello.txt 13 b

Endpoint xsede#stampede

Path /~/

select all | none up one folder refresh list

hello.txt 13 b

more options Label This Transfer

This will be displayed in your transfer activity.

Support

The screenshot shows the Globus Online Transfer interface. It features two main panels for file selection. The left panel is connected to the 'trestles' endpoint, and the right panel is connected to the 'stampede' endpoint. Both panels display a single file named 'hello.txt' located at the root path ('/~/'). Each panel includes standard file browser controls like 'select all', 'refresh list', and a refresh icon. Below each panel, there is a 'more options' link and a 'Label This Transfer' input field. The 'Label This Transfer' field contains the placeholder text 'This will be displayed in your transfer activity.' A 'Support' button is visible on the right side of the interface. The top navigation bar includes links for 'Manage Data', 'Groups', 'Support', and a user account ('jbasney'). The address bar shows the URL 'https://www.globusonline.org/xfer/StartTransfer?dest=xsede%23stampede'. The overall layout is clean and modern, typical of a web-based file transfer application.

Get Your Certificate

https://cilogon.org

Reader

Show Help

# CILogon Service

**Certificate Subject:** /DC=org/DC=cilogon/C=US/O=University of Illinois at Urbana-Champaign/CN=James Basney A534  
**Identity Provider:** University of Illinois at Urbana-Champaign  
**Level of Assurance:** Basic

Password Protect Your New Certificate:

Enter A Password:

Confirm Password:

**Get New Certificate**

 [» Click Here To Download Your Certificate «](#)

Link Expires: 04m:35s

**Log Off**

For questions about this site, please see the [FAQs](#) or send email to [help @ cilogon.org](mailto:help@cilogon.org).  
Know your responsibilities for using the CILogon Service.  
See [acknowledgements](#) of support for this site.



# CILogon CLI

```
$ curl -O https://cilogon.org/ecp.pl  
$ perl ecp.pl --get cert -c create -k userkey.pem -o usercert.pem -t 12
```

Select an Identity Provider (IdP):

- 1> LIGO Scientific Collaboration
- 2> LTER Network
- 3> ProtectNetwork
- 4> University of Chicago
- 5> University of Illinois at Urbana-Champaign
- 6> University of Washington
- 7> University of Wisconsin-Madison
- 8> Specify the URL of another IdP

Choose [3]: 5

Enter a username for the Identity Provider: **jbasney**

Enter a password for the Identity Provider: \*\*\*\*\*

```
$ grid-proxy-init -cert usercert.pem -key userkey.pem -hours 4
```

Your identity: /DC=org/DC=cilogon/C=US/O=University of Illinois at Urbana-Champaign/  
CN=James Basney A534

Creating proxy ..... Done

Your proxy is valid until: Thu Mar 14 18:26:56 2013

```
$ gsish citest.example.edu
```

[jbasney@citest ~]\$

# Custom CILogon Instances

The image displays four separate browser windows, each showing a different custom instance of the CILogon service:

- LIGO:** Shows the LIGO logo and a "Powered By CILogon" banner.
- DataONE:** Shows the DataONE logo and a "Powered By CILogon" banner.
- CardioVascular Research Grid:** Shows the grid logo and a "Powered By CILogon" banner. A modal dialog box titled "Select An Identity Provider" is open, listing various university options. The "University of Illinois at Urbana-Champaign" option is highlighted.
- Ocean Observatories Initiative (OOI):** Shows the OOI logo and a "Powered By CILogon" banner. A modal dialog box titled "Select An Identity Provider" is open, listing various university options. The "University of Illinois at Urbana-Champaign" option is highlighted.

# References

- **MyProxy**  
<http://myproxy.ncsa.uiuc.edu/>
- **OAuth for MyProxy**  
<http://www.sciencegatewaysecurity.org/oauth-for-myproxy>
- **CILogon**  
<https://cilogon.org/>
- **Shibboleth**  
<http://shibboleth.net/>
- **InCommon Federation**  
<https://www.incommon.org/federation/>

# Thanks!

[www.cilogon.org](http://www.cilogon.org)

[www.sciencegatewaysecurity.org](http://www.sciencegatewaysecurity.org)

[jbasney@illinois.edu](mailto:jbasney@illinois.edu)