



# 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

Sign Up with Globus Online

Use Your GlobusOnline login



alternate login

Username

Password

Sign In

Forgot Password?

Select a different login

GlobusOnline	InCommon / CILogon
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

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view transfer activity  
manage endpoints  
dashboard

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Email Address (Required)

## Sign In

Use Your InCommon / CILogon login

[alternate login](#)

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



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### OUR USERS

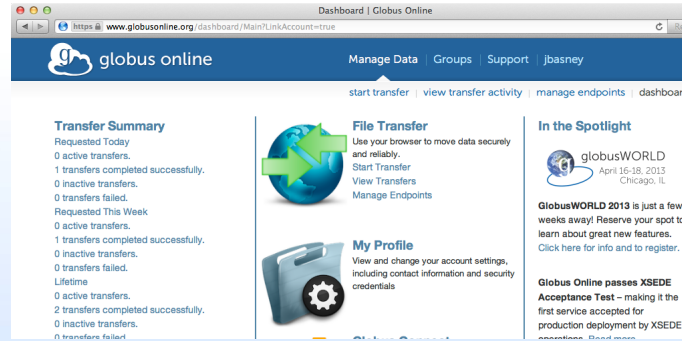
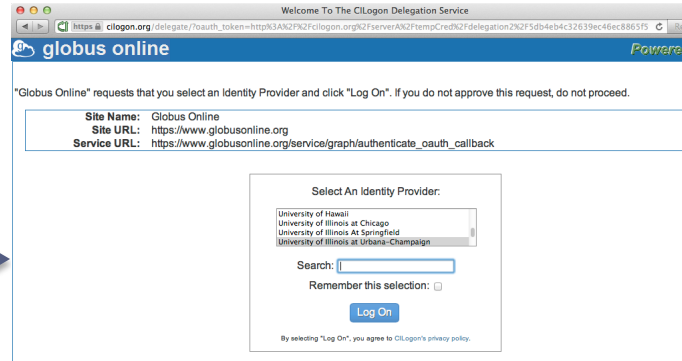
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- user quotes & stats
- case studies
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### HOW TO

- quick start guides
- tutorials
- pro tips
- videos & presentations

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Email Address (Required)



"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.

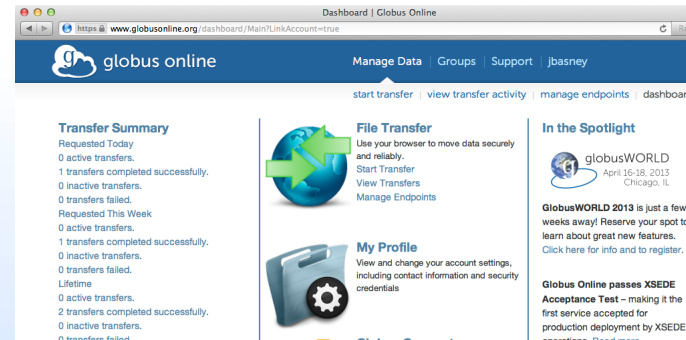
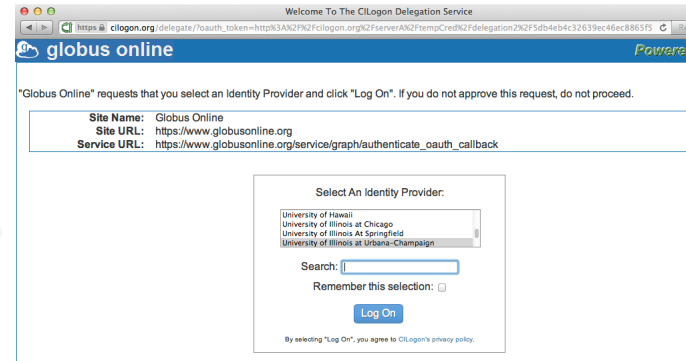
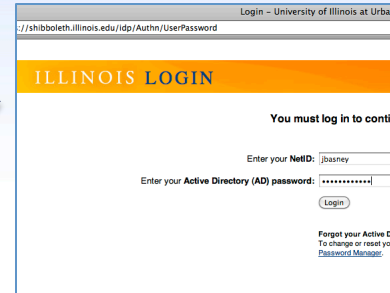
For questions about this site, please see the [FAQs](#) or send email to [help@cilogon.org](mailto:help@cilogon.org).  
Know [your responsibilities](#) for using the CILogon Service.  
See [acknowledgements](#) of support for this site.







SAML



## ILLINOIS LOGIN



You must log in to continue.

Enter your NetID:

Enter your Active Directory (AD) password:



**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**

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.

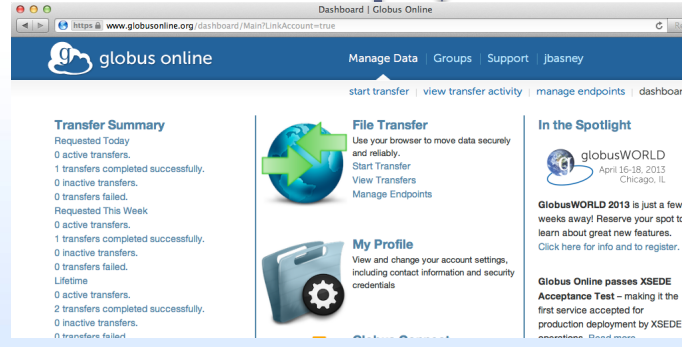
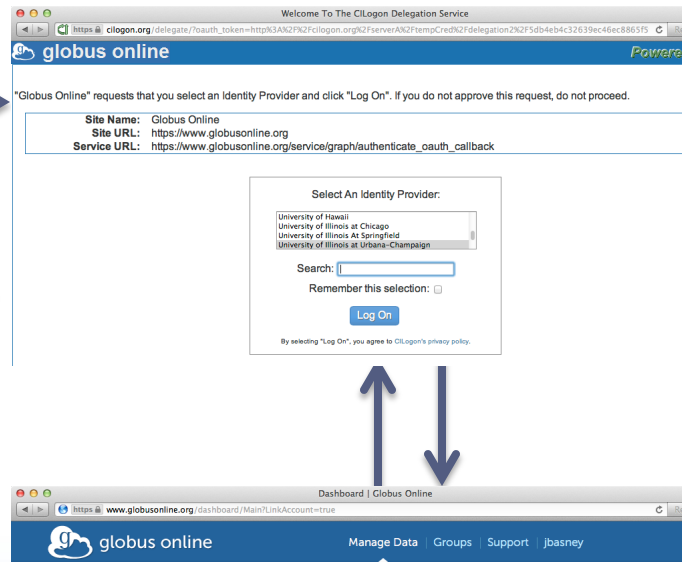
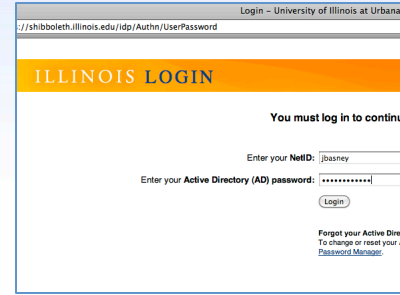
To maximize security, quit your browser when done using this application.





SAML

OAuth





### 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 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...](#)

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## Manage Identities

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

Alias	Type	Authentication Provider			
	x509		<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
 <a href="#">InCommon / CILogon Sign In</a>	oauth		<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
NCSA Blue Waters	oauth		<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>
XSEDE Sign In	oauth		<a href="#">View Details</a>	<a href="#">Update</a>	<a href="#">Delete</a>

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

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Email Address (Required)

Start Transfer | Transfer | Globus Online

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

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## Transfer Files

Get Globus Connect  
Turn your computer into an endpoint.

Endpoint  Go

Path  Go


Endpoint  Go

Path  Go

Please select an endpoint above.

**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

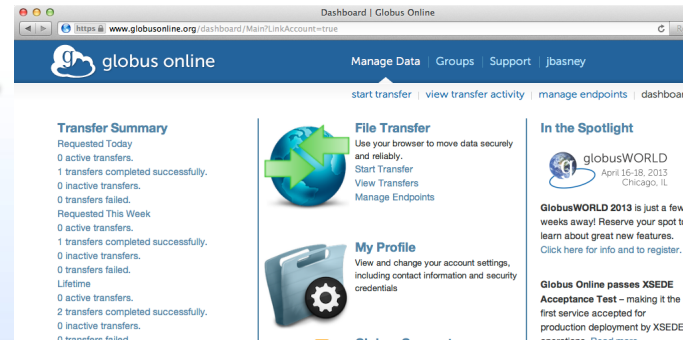
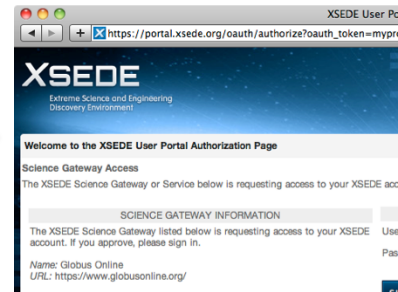
more options

Label This Transfer

This will be displayed in your transfer activity.

Support

MANAGE DATA OUR USERS RESOURCES





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

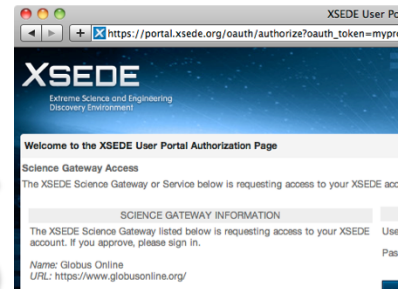
Please send any questions or comments about this site to [help@xsede.org](mailto:help@xsede.org).





# MyProxy

Credential Management Service



Start Transfer | Transfer | Globus Online

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

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start transfer | view transfer activity | manage endpoints | dashboard

### Transfer Files

Get Globus Connect  
Turn your computer into an endpoint.

Endpoint **xsede#trestles** Go

Path /~/ Go

select all | none | up one folder | refresh list

hello.txt 13 b

Endpoint **xsede#stampede** Go

Path /~/ Go

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

Get Your Certificate

https://cilogon.org

# 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


Show Help

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.  
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
$ gsissh citest.example.edu
[jbasney@citest ~]$
```

# Custom CILogon Instances

The image displays several overlapping browser windows, each showing a different custom CILogon instance. The instances are:

- Open Science Grid:** Features the Open Science Grid logo and a "Powered By CILogon" badge.
- DataONE:** Features the DataONE logo and a "Powered By CILogon" badge.
- Ocean Observatories Initiative:** Features the OOI logo and a "Powered By CILogon" badge.
- CardioVascular Research Grid:** Features the CardioVascular Research Grid logo and a "Select An Identity Provider" dialog box.

The "Select An Identity Provider" dialog box lists the following providers:

- University of California, Davis
- University of California - Office of the President
- University of California - San Diego
- University of Chicago
- University of Cincinnati Main Campus
- University of Delaware
- University of Hawaii
- University of Illinois at Chicago
- University of Illinois At Springfield
- University of Illinois at Urbana - Champaign

Below the list, there is a search field, a "Remember this selection:" checkbox, and "CONTINUE" and "CANCEL" buttons. A note at the bottom of the dialog states: "By selecting 'Continue', you agree to [CILogon's privacy policy](#)."

At the bottom of the OOI instance window, there is a footer with the text: "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." and a help icon.

# 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)