Configuring Globus with ICBR as a non-UF Affiliate

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ⓘ **Target Audience**

This document is intended for ICBR customers who **are not** affiliated with the University of Florida and **do not** have a HiPerGator account.

What is Globus?

Globus is an easy-to-use, high-performance data transfer tool developed by the Computation Institute, the University of Chicago and Argonne National Laboratory. Globus uses a grid-FTP network which uses the power of multiple servers to simultaneously transfer data.

Prerequisites

These instructions are geared towards ICBR customers who are not affiliated with the University of Florida and would like us to deliver their data directly to a Globus Connect Personal EndPoint. Although the size of the data delivered varies greatly by platform and run configuration, ICBR suggests that customers have 500GB to 1TB of free space accept deliveries. ICBR will be delivering raw instrument output and secondary analysis files.

✅ **Storage**

We suggest that customers have 500GB to 1TB of free space accept deliveries. Please contact ICBR-DataDelivery@ad.ufl.edu for questions about your deliverable's size.

⊘ **Hardware and Bandwidth**

Only install the Globus Connect Personal client on a computer with a wired, high speed, Internet connection.

ⓘ **Before You Start**

Please make sure that you read all of these instructions when configuring your endpoint. Most issues that arise can be resolved with the information contained in this document.

Section I: Account Setup

Once you grant ICBR the correct permissions to your Globus Endpoint we can re-use it for future data deliveries.

1. Complete the form at globusid.org/create and click "Create ID".

2. Copy the verification code in the email you receive. Complete the account creation process by pasting it into the field on the Verify E-mail Address page and click "Verify".

Globus - Globus ID Verification   Inbox   x

support@globus.org
to me

To verify your email address and complete your Globus ID activation, copy the verification code below to the Globus ID verification page.

Verification Code: ae837c78-f020-415d-ac79-e4368885ea7d

Thank you for using Globus ID,

The Globus Team

If this wasn't you, please let us know: support@globus.org

globus ID

Demo Doc (demodoc@globusid.org)
Verify Your E-mail Address
Home | Log Out

Verify E-mail Address

The client **Globus Auth** is requesting access to your **globusid.org** account for accessing a third-party website or application located at **auth.globus.org**. If you approve, please verify your e-mail address to continue.

An email was sent to **globus.demodoc@gmail.com**.

Please check your e-mail and click on the verification link in that e-mail or enter the verification code that appears in that e-mail into the text box below.

| Verification Code | ae837c78-f020-415d-ac79-e4368 | Verify |

This is a text string like the following:
12345678-90ab-cdef-1234-567890abcdef

Can't find the verification e-mail? Check your spam folder or search for an e-mail from *support@globus.org*. You may also re-send the verification e-mail.

3. Once you've logged in, Globus will ask if you'd like to link to an existing account. If this is your first time signing up to use Globus (you don't already have an existing account), you'll click "No thanks, continue".
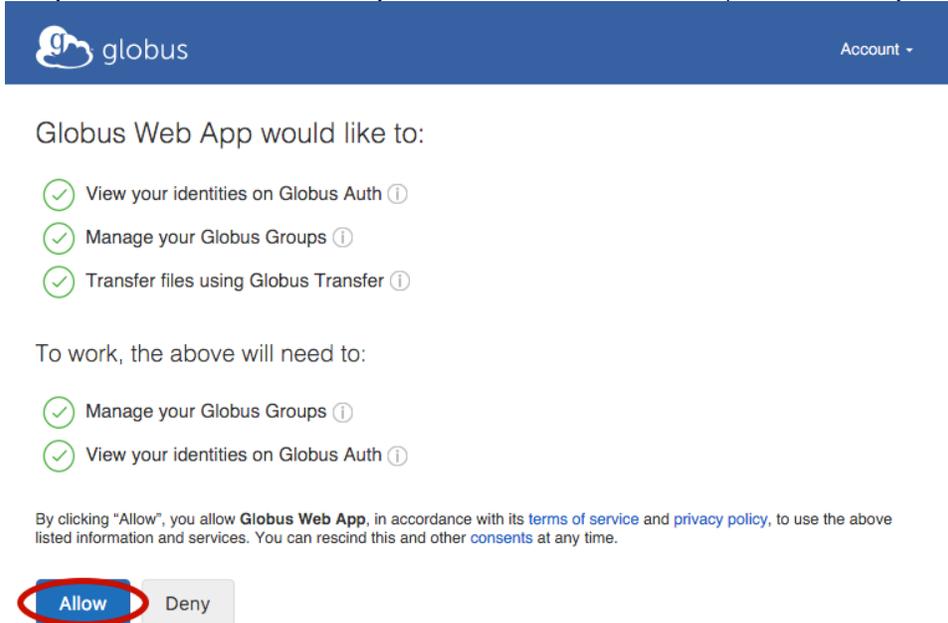
globus

Link to an Existing Globus Account?

You may add your **Globus ID** login as a linked identity. This will allow you to access your previously used account along with all of its permissions and history using either login.

| Link to an existing account | No thanks, continue |

Why should I link accounts?   What is my Globus account?

4. Then you will need to allow Globus to use your Globus ID to view information and perform actions on your behalf within the service.


Section II: Account Elevation

1. After you have created your account request to join the ICBR Globus Group.
   Join ICBR Globus Group
2. Once ICBR enables your account, and you accept the invite you can set up the Globus Connect Personal Client.

Section III: Setting Up the Client

1. Click here to create a Globus Connect Personal endpoint and follow the instructions below.
2. Enter a name for your endpoint. This name can be anything you choose, as long as you haven't previously created another endpoint with the same name.
3. Click "Generate Setup Key".
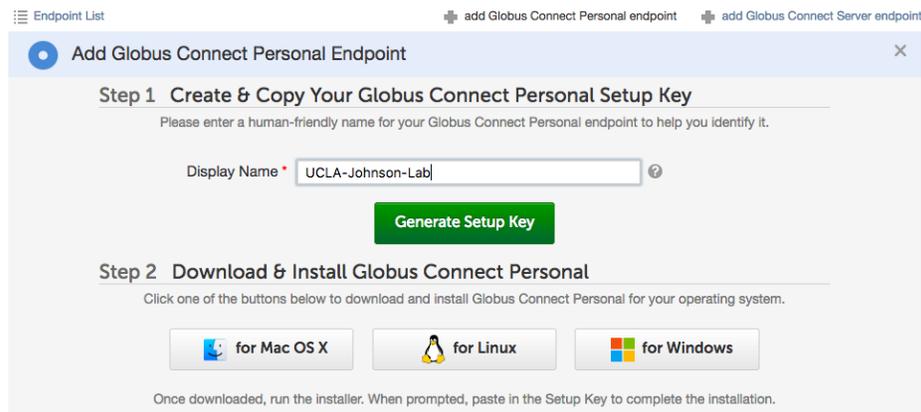
4. Select the generated key with your mouse and copy it to the clipboard.

5. Click "for Windows" to download the Windows installer.

6. Double click the downloaded file and follow the instructions to install Globus Connect Personal. If you're asked whether the program can make changes to your computer, please click "Yes".

7. Confirm the directory where Globus Connect Personal will be installed and click "Install".

8. When the installation completes, ensure that "Run Globus Connect Personal" is checked and click "Finish".
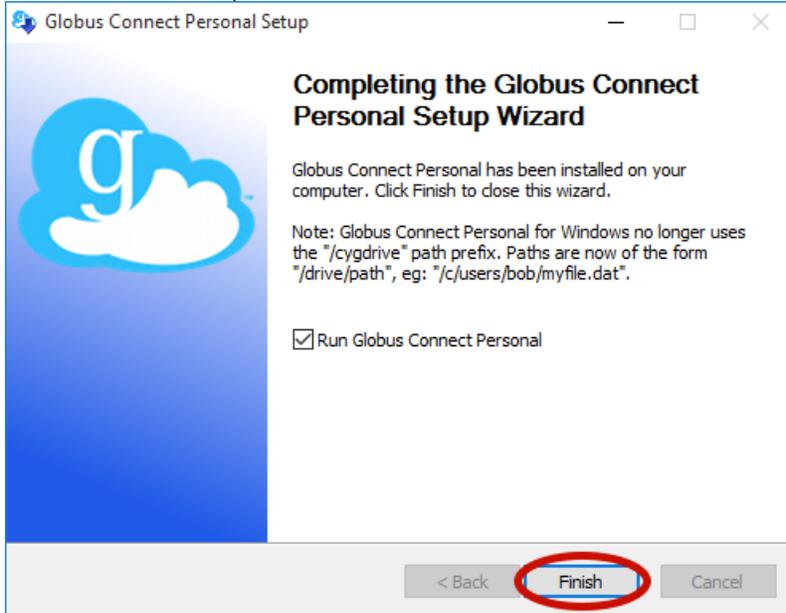
9. Since this is the first time you are running Globus Connect Personal, you will see the Setup window below where you are required to enter a setup key. Paste in the key you generated in step 2 above. The "OK" button will be enabled if the key is valid. Click "OK" to complete the installation. (If the "OK" button is not enabled, please ensure you have properly copied the entire key generated in step 2 above.
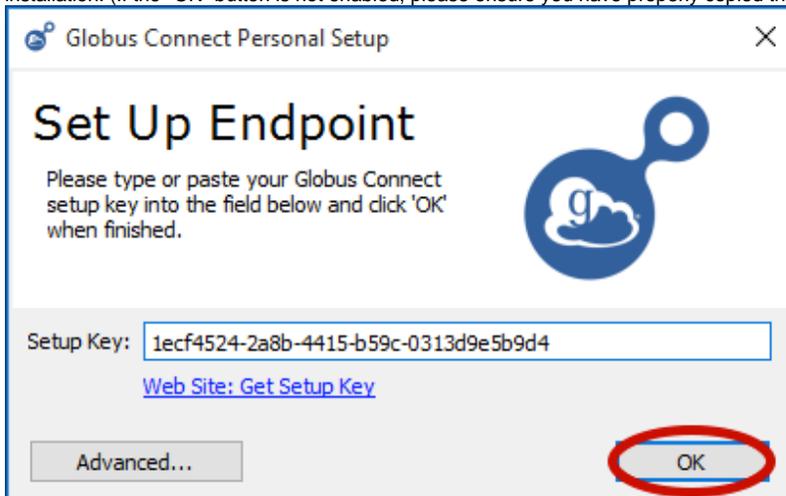
10. You will be prompted to specify which directory may be accessed via Globus Connect Personal. Select a location that can house an instrument run and analysis for the platform data is being delivered. You can change this later, if necessary.
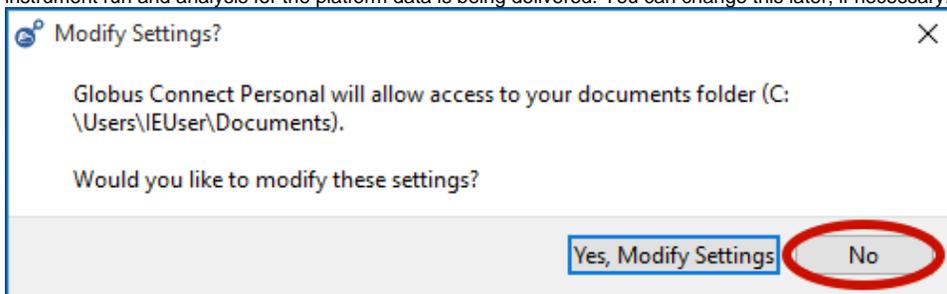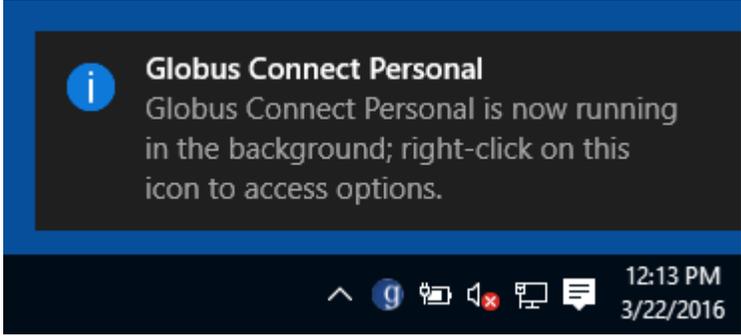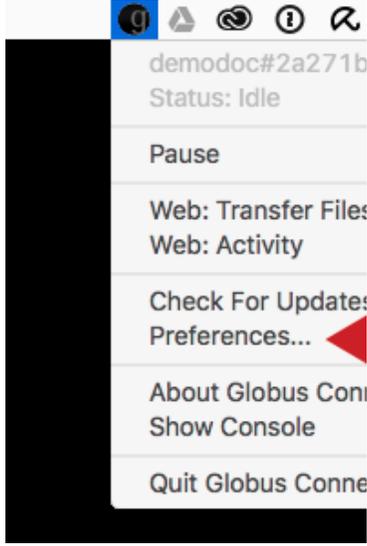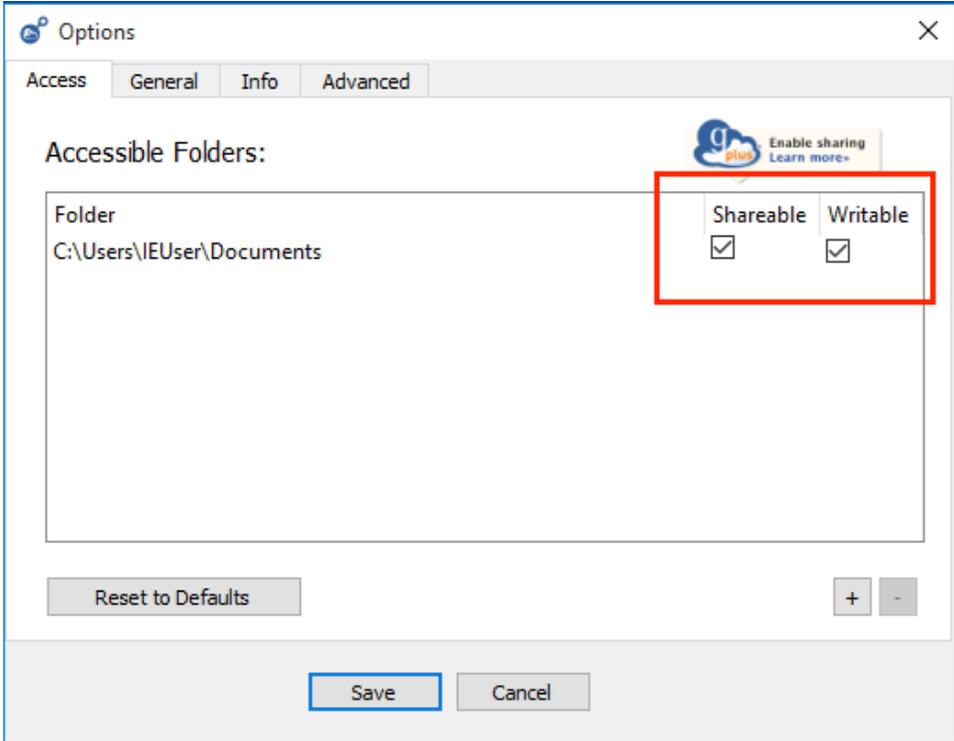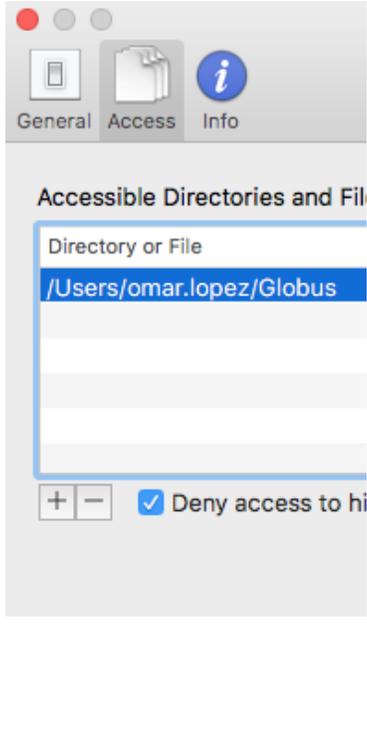

11. Globus Connect Personal will connect to Globus and await transfer commands. You will see the notification below when Globus Connect Personal starts running - you may minimize this to your task bar.

For more information on configuring this client, navigate to https://docs.globus.org/how-to/globus-connect-personal-windows/.

✓ Please ensure that you configure Globus Connect Personal to be "Shareable" within the **Access** tab of the preference pane in the client.

Ensuring the Globus Connect Personal is Shareable and Writable:

| Microsoft Windows	macOS
You may configure Globus Connect Personal by right-clicking on the Globus Connect Personal icon in the taskbar and selecting "Options…". Configuration options are divided into four groups; the most important (and commonly used) are the "Access" and "General" options. The "Access" tab lists folders that will be accessible via Globus for file transfer and sharing. By default, the only folder listed is your home directory.	You may configure Globus Connect Pers menu bar and selecting "Preferences…".

Section IV: Granting ICBR Read/Write Access

1. After you've signed up, you'll be sent to the Transfer Files page, or you can select **Transfer Files** from the Manage Data submenu.

2. Under Transfer Files you will see two columns that contain a link that reads "Start by selecting an endpoint," click the one on the left.
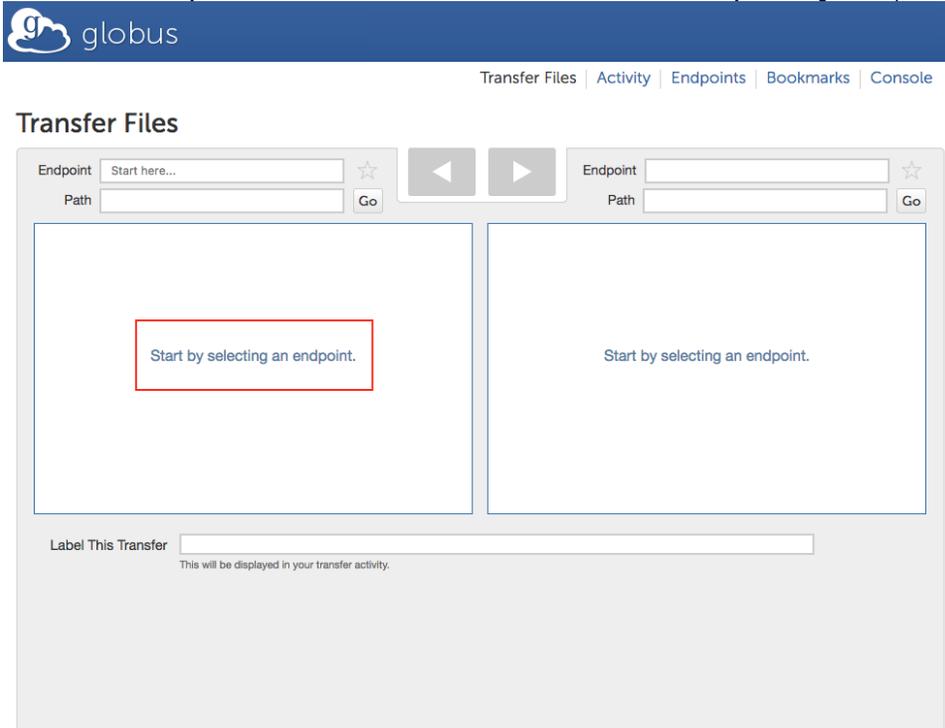
3. A window will open with a field containing the text "Start by typing the name of an endpoint..." Search for the endpoint you created.
4. Once you have accessed your endpoint you will create a new folder that ICBR will use to upload data.
   You can create a folder by clicking the **three small horizontal bars** located on the upper right-hand side of the left column.
   Click "**New Folde**r"
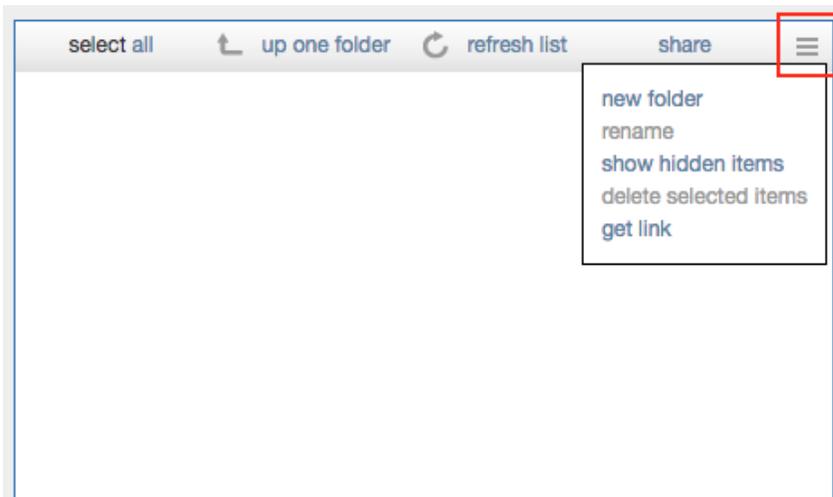
5. Title the folder "**ICBR**" and click **Create**.
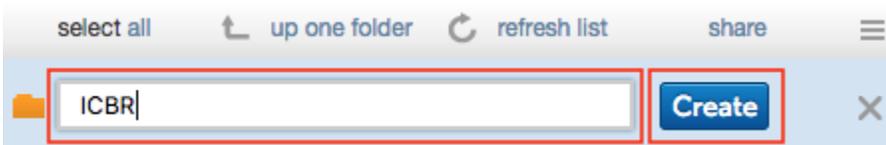
6. Once you have created the folder click on the folder and click on **share** on the bare above.

7. After you click on share you will be redirected to a page titled **Create New Shared Endpoint**. Within that page, add a **Share Display Name.**

8. Click on **Create.**
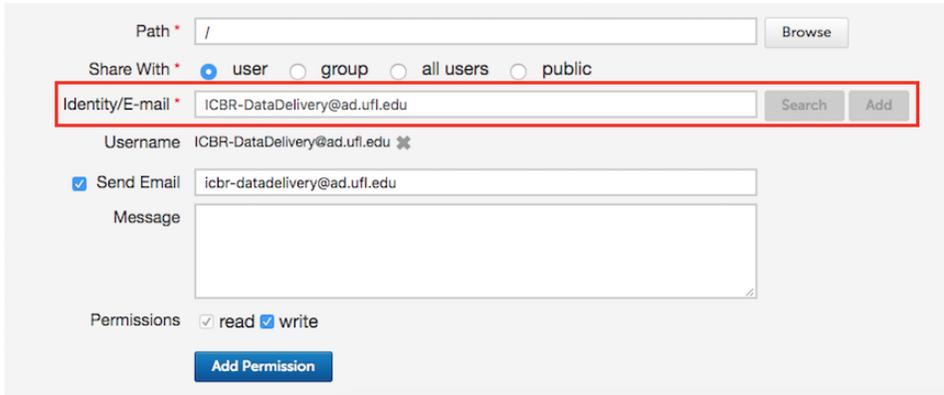9. Within the Sharing tab enter the following:

    a. Share With: user
    b. Identity/Email: enter ICBR-DataDelivery@ad.ufl.edu click on **Add**
    c. Check the box next to Send Email
    d. Permissions: read and write
       It is important to grant **READ** and **WRITE** permissions. Without write permission ICBR will not be able to push data to the *ICBR* folder.

10. Click on **Add Permission**

Manage Endpoints

Path *	/ Browse
Share With *	● user ○ group ○ all users ○ public
Identity/E-mail *	ICBR-DataDelivery@ad.ufl.edu Search Add
Username	ICBR-DataDelivery@ad.ufl.edu ✖
☑ Send Email	icbr-datadelivery@ad.ufl.edu
Message	
Permissions	☑ read ☑ write

Add Permission

Post-Configuration

Once you have completed these steps **ICBR Data Delivery** should receive a notification alerting them that they have been granted access to these Globus Endpoints.

Additional Resources

For more information on Globus and other useful documentation, please see the following:

- Log In and Transfer Files with Globus
- Link a New Identity to an Existing Globus Account
- Share Data Using Globus
- Install and Configure Globus Connect Personal for Mac OS X
- Install and Configure Globus Connect Personal for Windows
- Install and Configure Globus Connect Personal for Linux