

# GLOBUS DATA TRANSFER

## QUICK START GUIDE

SRAMM – SEMC – NYSBC

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## Introduction

Globus is an application that lets you transfer large amounts of research data efficiently and securely to your personal computer, institution's storage systems or a cloud provider. It eliminates the use of big portable external hard drives that needs to be mounted to a local storage to transfer data. The New York Structural Biology Center primarily use Globus to transfer data that is collected on-site from electron microscopes. To get started with, follow the instructions below.

## How to register?

1. Open a web browser and navigate to <https://www.globusid.org/create>
2. Create a Globus ID

### Create a Globus ID

[Already have a Globus ID? Log In](#)

Username  @globusid.org

Your username will be checked for availability.

Ussenames may contain both letters and numbers, but must begin with a letter and be between 3 and 31 characters long. NOTE: this is an ID you are creating – not a working e-mail address

Password

☐ show password

Full Name  first and last name

E-mail  user@example.edu

This account will be used for ☒ non-profit research or educational purposes

☐ commercial purposes

Organization

☐ I have read and agree to the Globus [Terms of Service](#) and [Privacy Policy](#)

Create ID

- Make sure you select the non-profit option
- Please use your institution provided email address for registration, if possible. You can also use your personal email ID but it should be valid

3. After you click on Create ID, you will shortly receive a conformational email to verify your email address  
It is possible that the verification email has been sent to your spam folders. Please check it for confirmation
4. In the verification email, you will receive a verification code which you need to enter on the Globus website



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

**Verification Code: 119a4e90-4ebf-4423-b507-b02b717eb458**

Thank you for using Globus ID.

The Globus Team

If this wasn't you, please let us know: [support@globus.org](mailto:support@globus.org)

5. Copy paste the verification code into the Globus website



New User ([welcome@globusid.org](mailto:welcome@globusid.org))

[Verify Your E-mail Address](#)

[Home](#) | [Log Out](#)

### Verify E-mail Address

An email was sent to **user@example.edu**

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

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](mailto:support@globus.org). You may also [re-send the verification e-mail](#).

## How to login?

There are 2 ways to login into Globus at <https://app.globus.org/>

1. Use the account id from which you registered or
2. You can look up for your institution name under the login page and directly sign in using your institution credentials

Log in to use Globus Web App

Use your existing organizational login

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

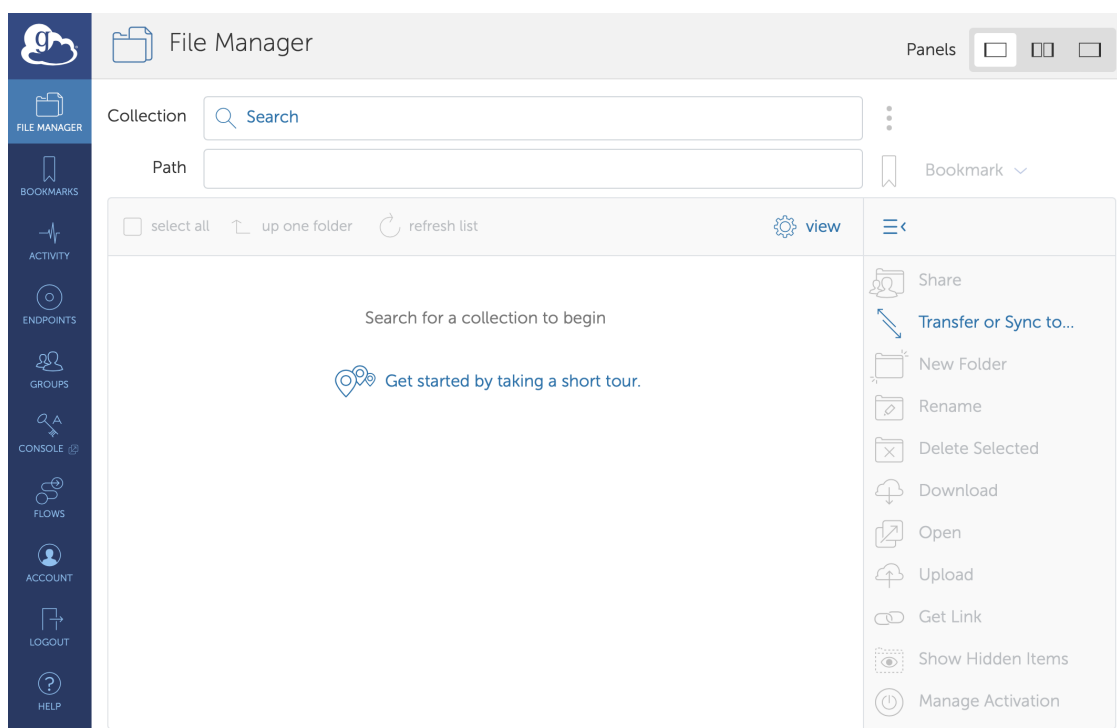
Columbia University

By selecting Continue, you agree to Globus [terms of service](#) and [privacy policy](#).

Continue

Some institutions have already signed up with Globus which enables the users to sign with their existing email ID without registering for a new account on Globus. If your institution's name is not on the list, you have to create a new Globus ID described in the above step

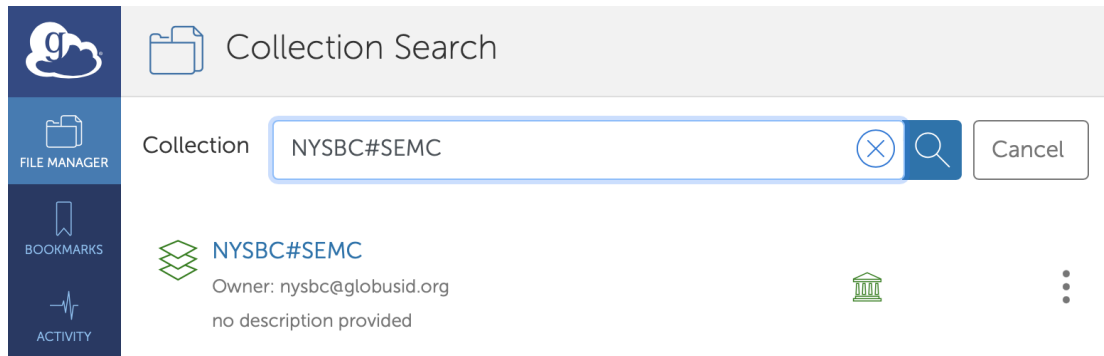
Once you log in, you will see the following screen



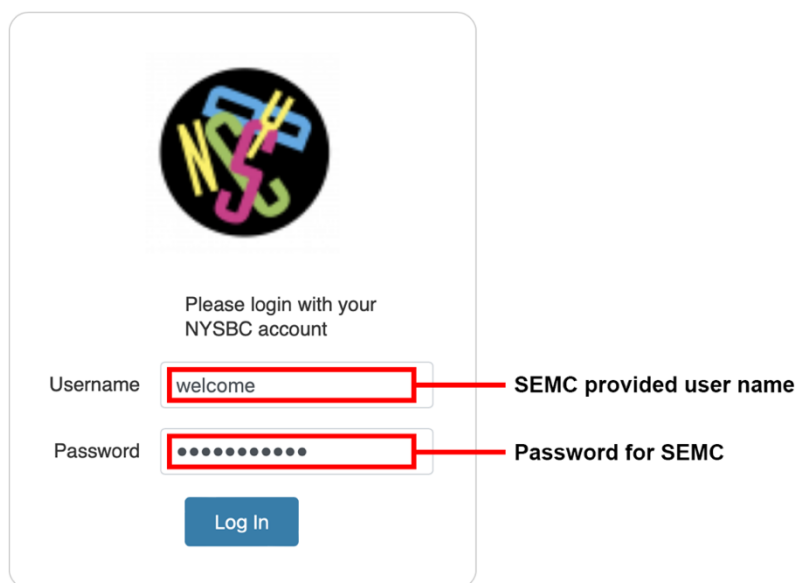
*A collection is a named location containing data you can access with Globus. Collections can be hosted on many different kinds of systems, including campus storage, HPC clusters, laptops, Amazon S3 buckets, Google Drive, and scientific instruments. A collection allows authorized Globus users to browse and transfer files. Collections can also be used for sharing data with others or data publication. For us, the collection name is 'NYSBC#SEMC'*

## How to transfer files?

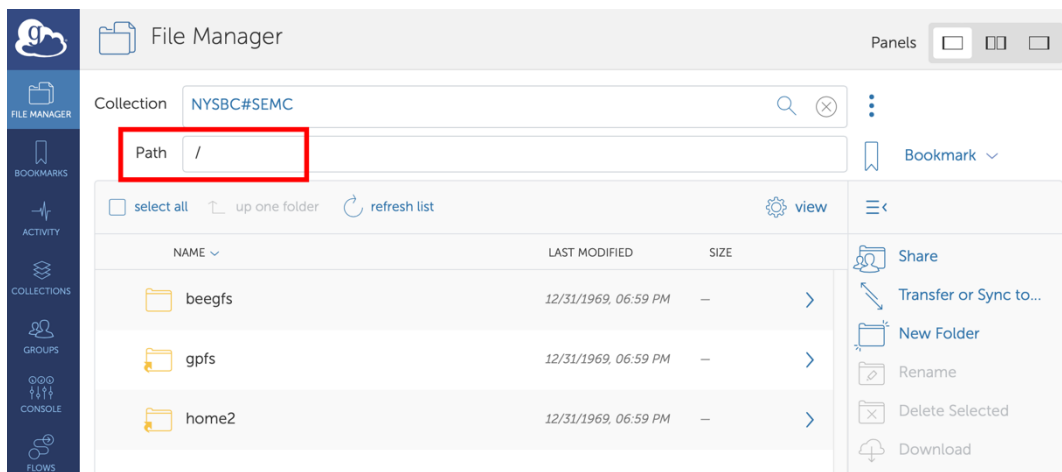
1. Click on the Collections tab and type 'NYSBC#SEMC' This will act as your source endpoint, where you will be transferring files from



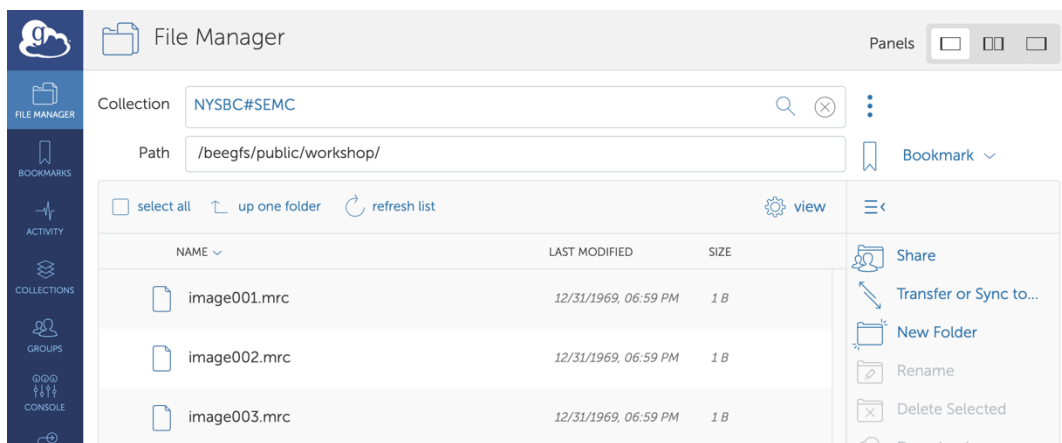
2. You will see a login widget below which will ask for your username and password to authenticate.  
Please take a note that, you need to enter the username which is provided by SEMC/SRAMM when you first registered for your project.  
Also, note that this username is all **lowercase**



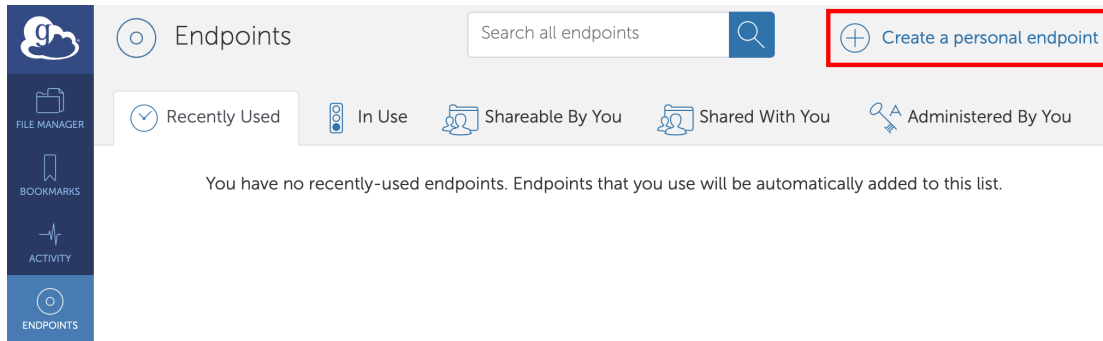
3. After you authenticate, you will see your default path which is currently set at /



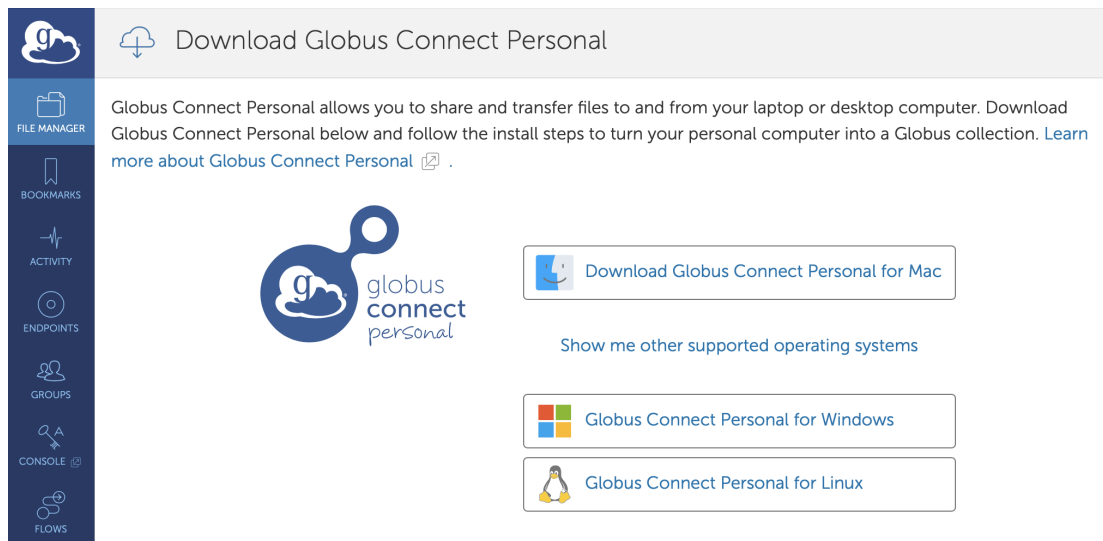
4. You can transfer raw frames and references by selecting the **'frames'** folder
  - Select your username
  - Then, select the session you want to transfer frames from **eg:** (22mar07c)
  - Under the rawdata folder, you will see all your raw frames
5. You can also transfer aligned images by selecting the **'leginon'** folder
  - Select your username
  - Then select the session you want to transfer frames from **eg:** (22mar07c)
  - Under the rawdata folder you will see all your aligned images



6. Now, you need to select the destination endpoint. For transferring files to your personal computer, you need to install Globus Connect Personal.  
Click on 'Endpoints' on the left navigation bar and select '⊕ Create a personal endpoint' on the top right of the screen



## 7. You will see the following screen



- Download and install the Globus Connect Personal as per your OS distribution  
For specific installation instructions,  
Mac installation: <https://docs.globus.org/how-to/globus-connect-personal-mac/>  
Windows: <https://docs.globus.org/how-to/globus-connect-personal-windows/>  
Linux: <https://docs.globus.org/how-to/globus-connect-personal-linux/>
- Log In, then press allow, this will take you to the Globus Connect Personal Setup
  - For Owner Identity, select your Globus ID
  - Enter your endpoint collection name. eg: New Collection
  - Press 'Save'

**Globus Connect Personal Setup**

**Collection Details**

Owner Identity: welcome@globusid.org

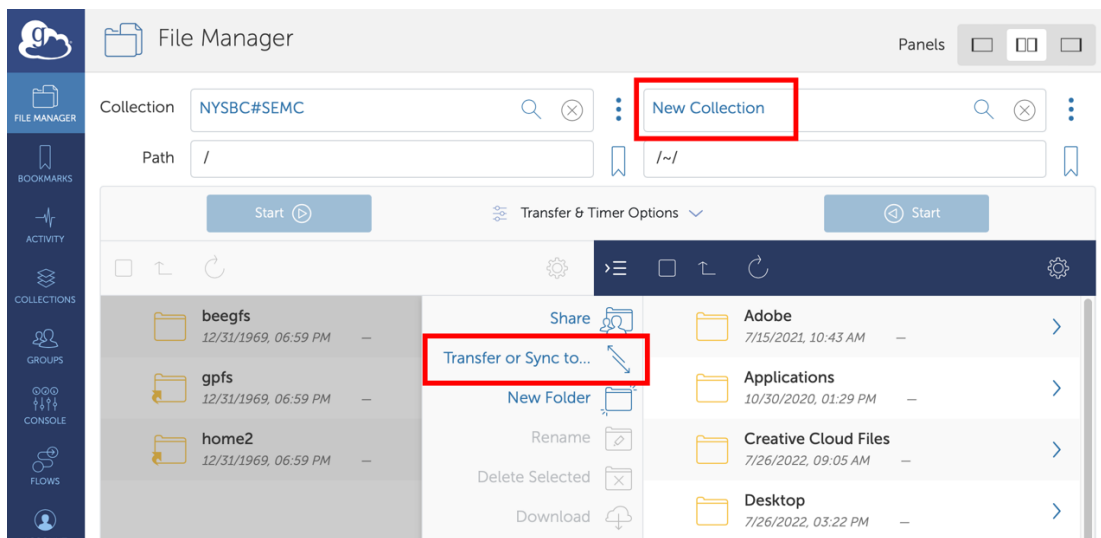
Collection Name: New Collection

Description: My office laptop

High Assurance: ☐ Choose this option only if your computer stores sensitive data such as Protected Health Information or Controlled Unclassified Information.

**Save**

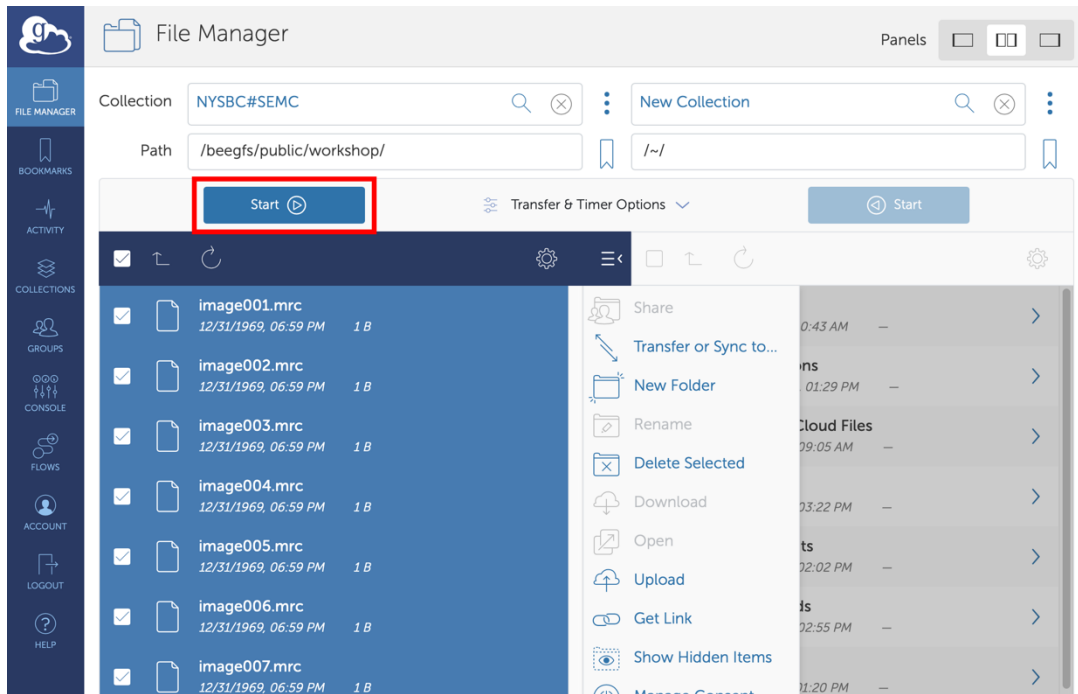
8. Next, select your personal endpoint as your destination endpoint.  
Go back to the file manager and select NYSBC#SEMC in the Collection tab
9. Then select, transfer and sync to option.
10. On the right side, select your personal endpoint as the destination endpoint. Please see the screenshot



You will now see the folders on your laptop.



11. Once you select the appropriate source and destination folder, then click on Start to initiate the transfer process



12. To monitor the transfer process, click on the Activity tab on the left sidebar  
You will see the transfer logs and the message when the transfer is completed.

Note: Sometimes, your personal computer will be under firewall which will not allow transferring files. To configure your firewall settings, please follow the link <https://docs.globus.org/how-to/configure-firewall-gcp/>

For any issues related to Globus please check the following guides:  
<https://docs.globus.org/how-to/>  
<https://docs.globus.org/faq/>