

Using Globus for Data Transfer at NE-CAT

NE-CAT now offers **Globus** for secure and reliable data transfer, in addition to the existing Python script. Globus, a non-profit service from the University of Chicago, allows seamless data movement or sharing between endpoints (file transfer locations). Learn more about Globus [here](#).

Create a Globus Account

- Visit globus.org and click **Login** in the top-right corner.
- Follow the prompts to create an account. Refer to the Globus manual for detailed instructions.

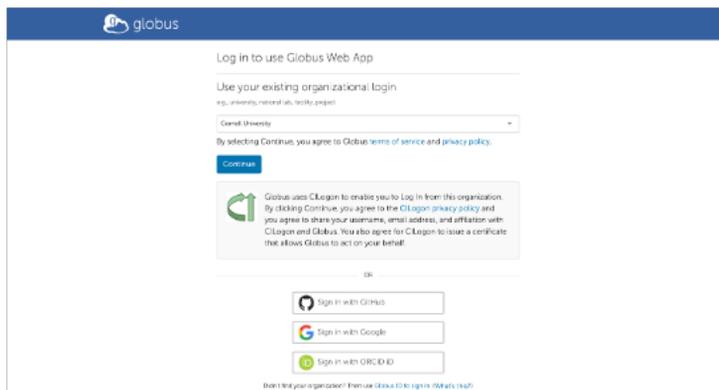
IMPORTANT: NE-CAT uses the Globus Guest Collection option. After creating your account, please send your Globus ID or the email associated with your account to Ali Kaya at ali.kaya@cornell.edu. You will receive two separate emails:

- One email invites you to join your group. Click "**Click here to apply for membership**" to accept it.
- The second email provides access to your group's shared directory. Follow the instructions provided in the email to complete the process.



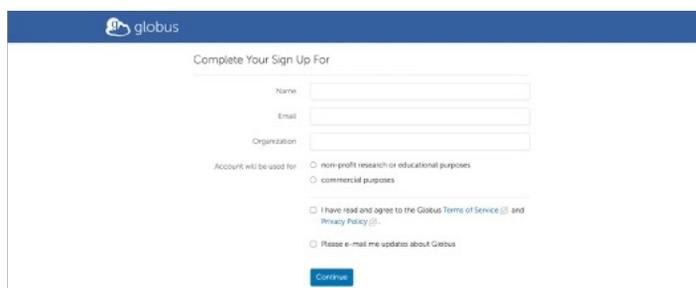
Select Your Organization: On the Globus login page, choose an organization you're already registered with (e.g., your school, employer). Note: **Do not select Argonne National Lab.**

Alternative Login Methods: If your organization is not listed, you can use one of the following options: GitHub, Google, ORCID, Globus ID. All these options allow you to create new accounts if you don't already have one.



Logging In Through Your Organization: If you select and find your organization, you'll be redirected to your organization's login page. Use your credentials for that organization to log in. After logging in through your organization, Globus will ask if you'd like to link to an existing account. If this is your first time logging in to Globus, click "Continue."

Using Alternative Account Creation Methods: If you choose to create an account using GitHub, Google, ORCID, or Globus ID, please fill out the form and follow the on-screen instructions.



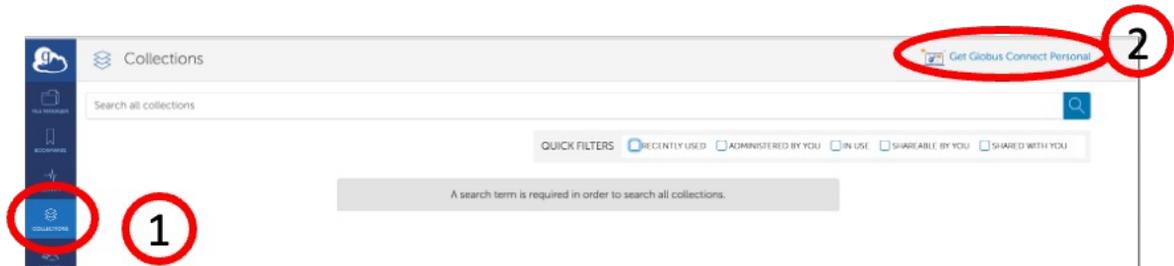
Access and Transfer your Data

Check Endpoint Availability:

- Globus transfers data from a source endpoint (e.g., NE-CAT) to a destination endpoint (your local storage).
- Ensure your institution's storage has a Globus endpoint. If available, obtain its endpoint name from your department's IT team.

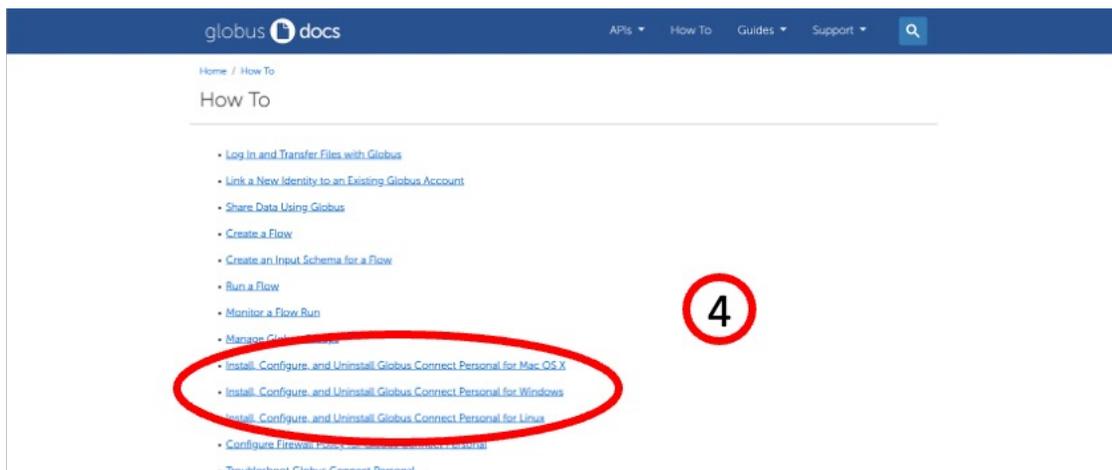
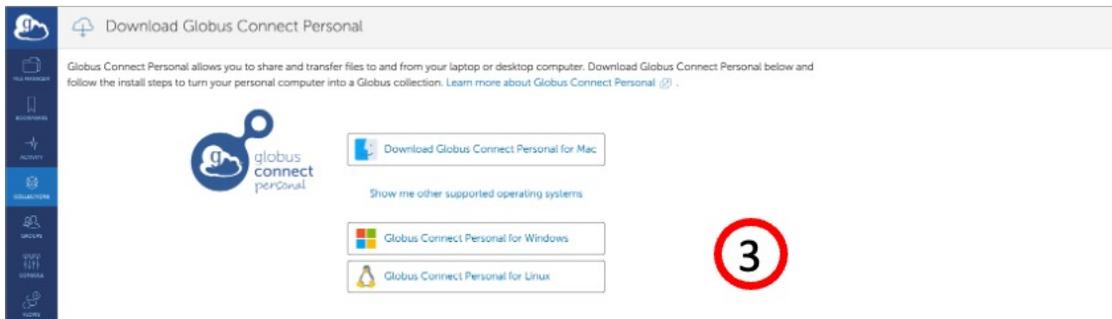
Setting Up a New Endpoint:

- If you're transferring data to your personal storage unit, you'll need to set up an endpoint.
- After logging in, you'll see the general layout of the Globus web app.
- Navigate to the 'Collections' tab on the left side (marked as '1').
- Click on "Get Globus Connect Personal" (marked as '2').



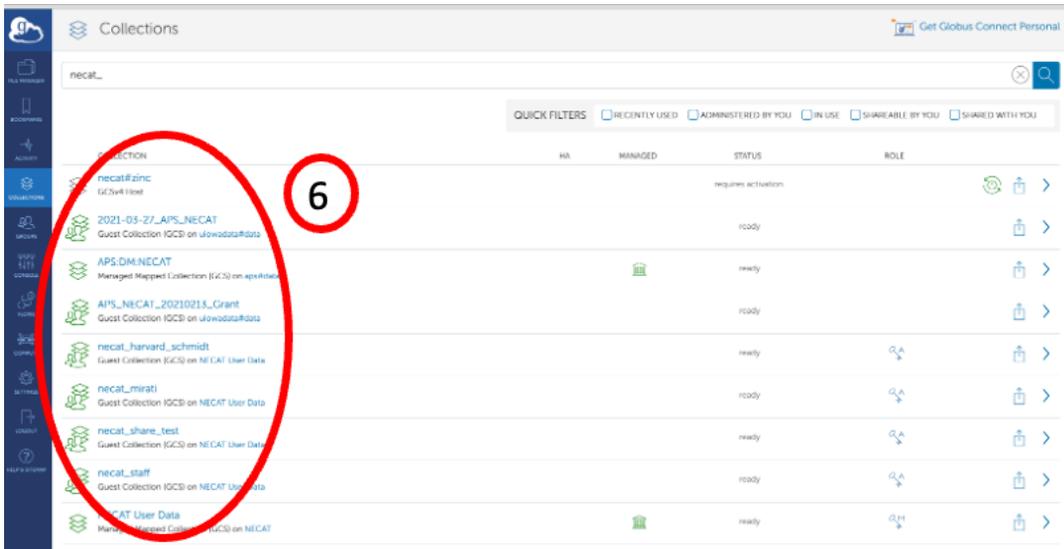
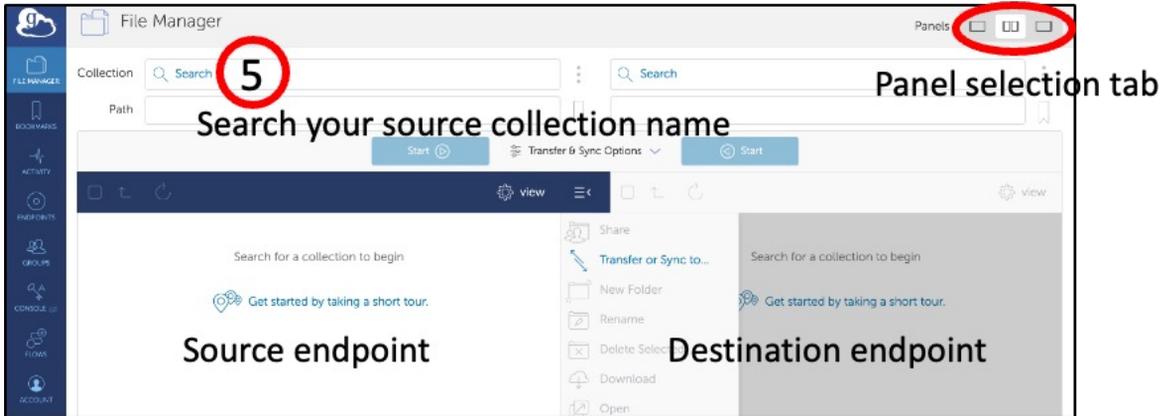
- Select your relevant operating system (marked as '3') and proceed with the installation.
- For **detailed installation and directory setup** instructions, visit the Globus website: <https://docs.globus.org/how-to/> (4), <https://www.globus.org/globus-connect-personal>.

Important Note: During the installation process, make sure **not to select the "High Assurance" option**.

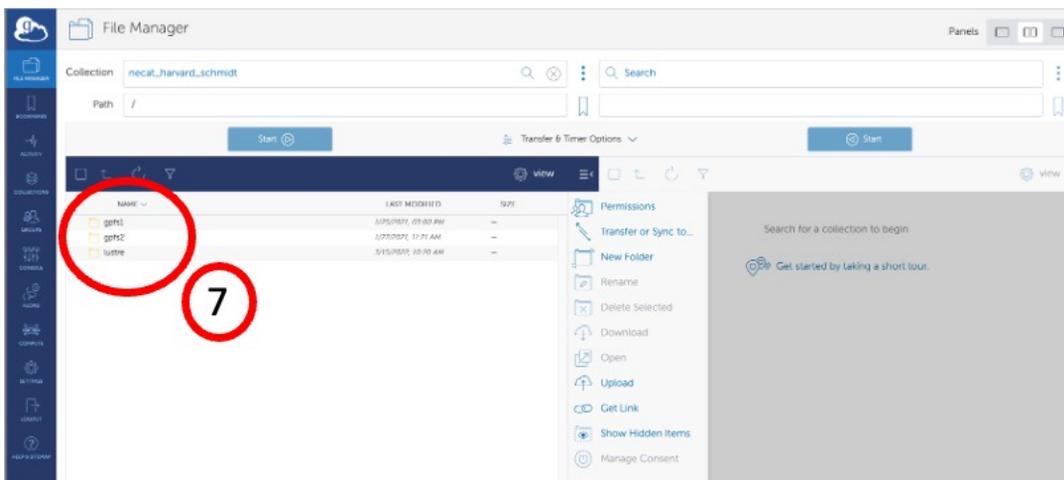


File Transfer:

- Navigate to the file manager. Select the middle icon in the panel selection tab to view both source and destination endpoints simultaneously.
- Locating the source endpoint: Search for the source collection name provided to you by NE-CAT or by your institution (referenced as '5-6') to find the source endpoint.



- At this stage, you should see several folders displayed. Look for folders with paths that resemble the following format: /gpfs1/users/<Institution Name>/<Session Name> (referenced as '7').



Go to the right side of the 'Collections' tab (referenced as '8'). Choose your endpoint.
Once your endpoint and directory path is selected, proceed to start the transfer (referenced as '9').

