



Installation and setup of globus connect for data transfers to CUNY HPC systems

1. Create globus account

Create a personal account at <https://www.globusid.org/create>. This will be a separate user name and password from your HPC user account. It can be used to manage your personal endpoints as well as the HPC system endpoint.

globus ID Not Logged-In Home

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

Username @globusid.org
hpcuser@globusid.org is available
Usernames 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
Better passwords are longer, use mixed-case letters with punctuation and numbers.
This password is **strong**.
 show password

Full Name

E-mail

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

Organization

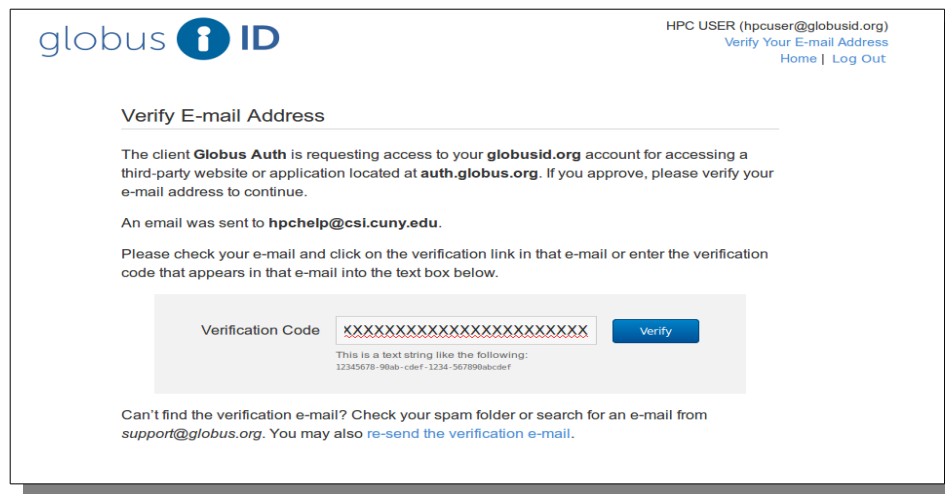
I have read and agree to the Globus [Terms of Service](#) and [Privacy Policy](#)

please e-mail me updates about Globus

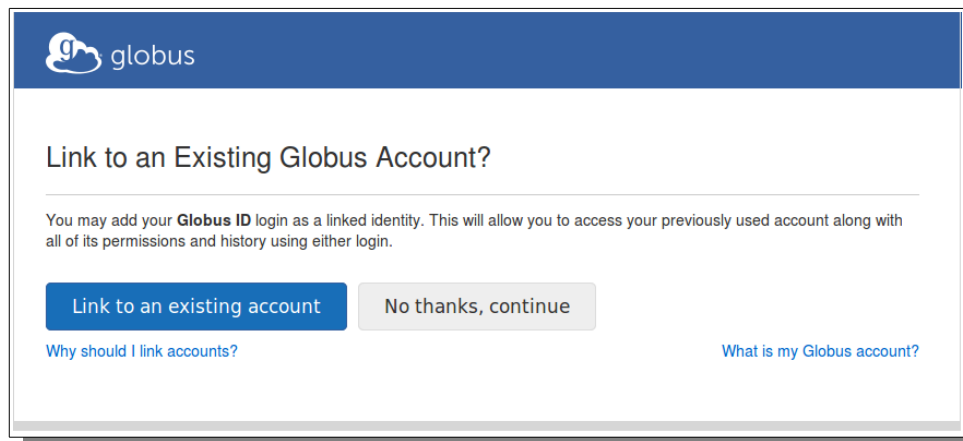
You will be sent an email verification code after you create your globus ID.

2. Verify your globus account

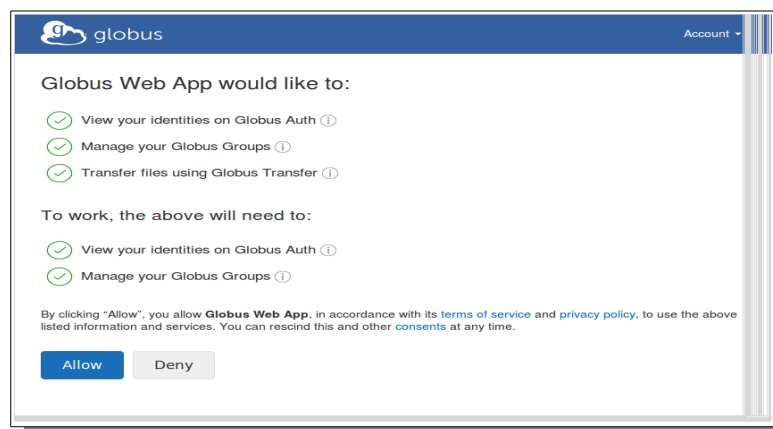
Verify your account at <https://www.globusid.org/verify>. You can find the verification code in the email that you supplied when creating the account.



You do not have to link to an existing globus account at this time unless you have an existing prior account that you would like to link to. I suggest No thanks, continue.

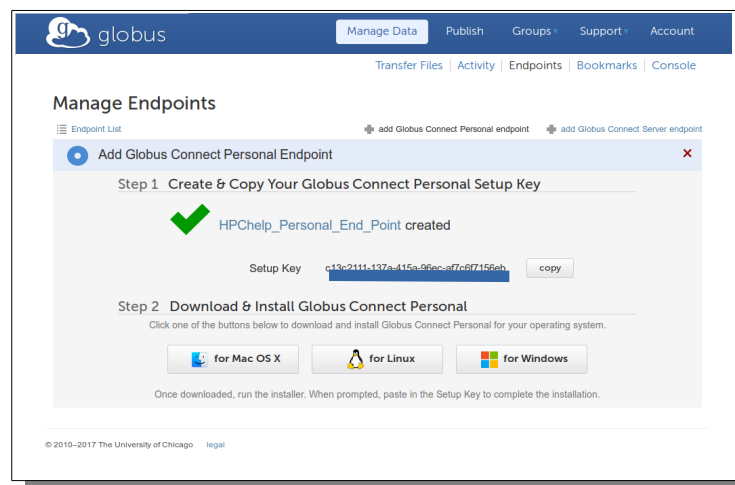
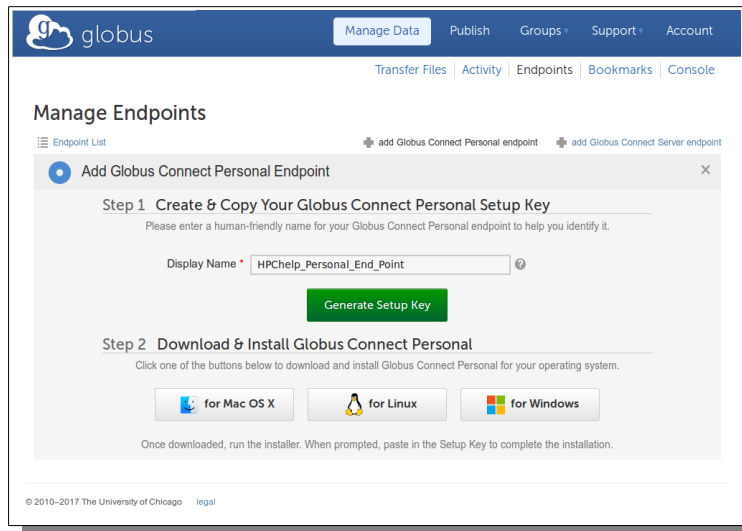


You will have to give globus connect permission to manage and access your globus id. Select Allow.



3. Create globus personal endpoint

Go to <https://www.globus.org/app/endpoints/create-gcp> and generate a setup key, you may have to re-login at this point. The display name can be anything that is meaningful to you, such as MyOfficeDesktop or my_personal_laptop. Then hit the Generate Setup Key button and copy your new key somewhere safe for now.



You will then have to download and install the globus connect personal application for your operating system. Check the Appendix for detailed instructions for each operating system (Sorry, but at this time only the Linux instructions are available in Appendix A. If you attempt this installation on a Mac or Windows please forward you method to michael.costantino@csi.cuny.edu and I will update this document accordingly.)

4. Connect the endpoints and start a data transfer

Go to <https://www.globus.org/app/transfer> and connect to the cunyhpc#cea endpoint (image left) When connecting to this endpoint you will have to use your CUNY HPC account user name and password (**NOT your globus account**). In the other pane (image right) you will connect to the personal endpoint you created in Step 3.

The screenshot displays the Globus Connect Personal web interface. At the top, there is a navigation bar with the Globus logo and links for 'Manage Data', 'Publish', 'Groups', 'Support', and 'Account'. Below this, there are tabs for 'Transfer Files', 'Activity', 'Endpoints', 'Bookmarks', and 'Console'. The main content area is titled 'Transfer Files' and features a 'RECENT ACTIVITY' section with three circular indicators.

The interface is split into two panes. The left pane shows the endpoint 'cunyhpc#cea' and the path '/~/'. It contains an authentication form with the following fields:

- Login Server: cea.csl.cuny.edu:7512 (with a 'change' link)
- Username: hpc_username
- Password: [masked]
- Advanced options: expanded to show an 'Authenticate' button.

The right pane shows the endpoint 'HPChelp_Personal_End_Point' and the path '/~/globus/'. It displays a file list with the following items:

Item	Type	Size
globusconnectpersonal-2.3.3	Folder	
globusconnectpersonal-latest.tgz	File	24.80 MB

At the bottom of the interface, there is a 'Label This Transfer' field containing 'MyFirstTransfer' and a 'Transfer Settings' section with the following options:

- sync - only transfer new or changed files
- delete files on destination that do not exist on source
- preserve source file modification times
- verify file integrity after transfer
- encrypt transfer

There is also a link for 'Get Globus Connect Personal' and the text 'Turn your computer into an endpoint.'

- On the cunyhpc endpoint (image left) you can navigate in the path bar to cunyhpc → system name → scratch directory → your user name. Then select files or directories you would like to transfer.
- On your personal endpoint you can select the destination directory for your transfer.
- Give the transfer a meaningful label and change the setting for this transfer (image bottom).
- Use the two large arrows in the middle of the panes to start the transfer in the direction that you would like to move the data.
- In this example I started a transfer of somefile from the hpcuser scratch directory of Penzias to the directory ~/globus/destination/ on my personal endpoint.

The screenshot displays the Globus Transfer Files interface. At the top, the Globus logo and navigation links (Manage Data, Publish, Groups, Support, Account) are visible. Below the navigation, there are links for Transfer Files, Activity, Endpoints, Bookmarks, and Console. The main section is titled "Transfer Files" and includes a "RECENT ACTIVITY" section with three circular indicators.

The interface is split into two panes. The left pane shows the source endpoint "cunyhpc#cea" with the path "/~/cunyhpc/penzias/scratch/hpcuser/". A file named "somefile" (709.88 MB) is selected. The right pane shows the destination endpoint "HPChelp_Personal_End_Point" with the path "/~/globus/destination/".

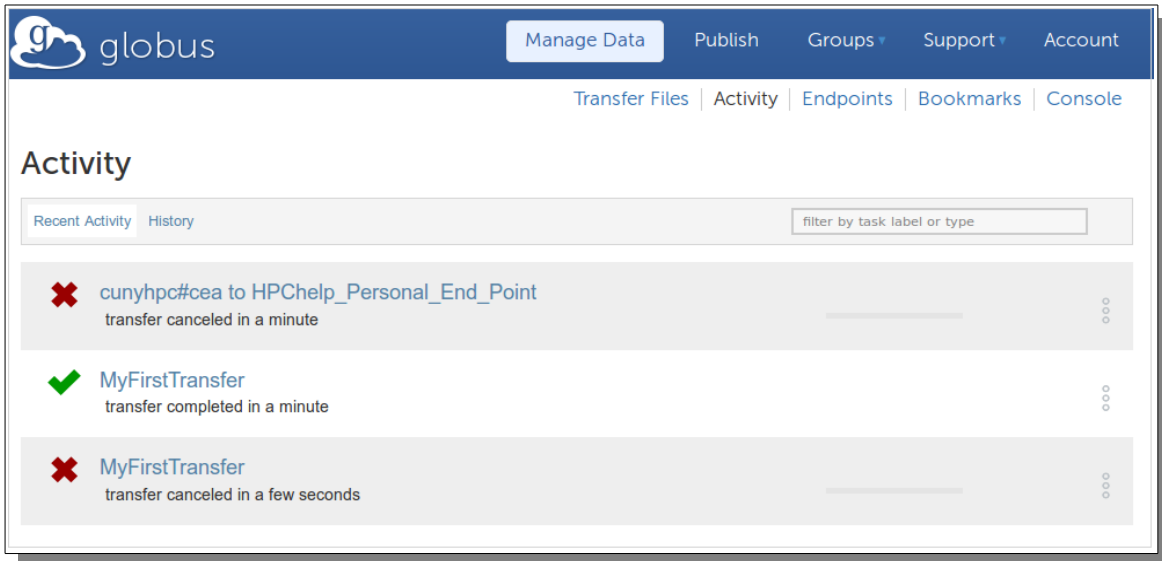
Below the panes, there is a "Label This Transfer" field containing "MyFirstTransfer" and a note: "This will be displayed in your transfer activity." Under "Transfer Settings", several options are listed:

- sync - only transfer new or changed files ?
- delete files on destination that do not exist on source ?
- preserve source file modification times ?
- verify file integrity after transfer ?
- encrypt transfer ?

At the bottom right, there is a link: "Get Globus Connect Personal Turn your computer into an endpoint."

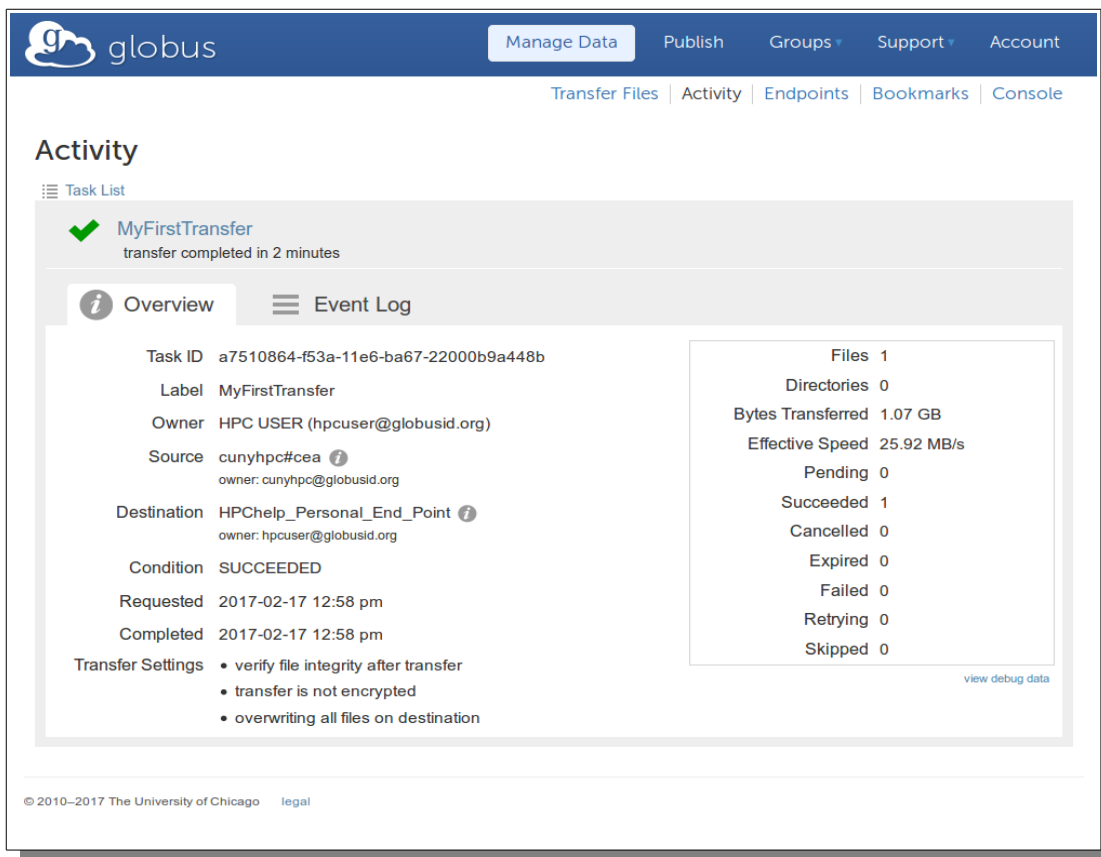
5. Monitor the Transfer

Go to <https://www.globus.org/app/activity> to monitor the file transfer .



The screenshot shows the Globus Activity page. At the top, there is a navigation bar with the Globus logo and links for Manage Data, Publish, Groups, Support, and Account. Below this is a secondary navigation bar with links for Transfer Files, Activity, Endpoints, Bookmarks, and Console. The main heading is "Activity". Underneath, there are tabs for "Recent Activity" and "History", and a search box labeled "filter by task label or type". The activity list shows three items: a canceled transfer for "cunyhpc#cea to HPChelp_Personal_End_Point", a completed transfer for "MyFirstTransfer", and another canceled transfer for "MyFirstTransfer".

Select the transfer to see a detailed report and statistics.



The screenshot shows the detailed report for the "MyFirstTransfer" task. The task is marked as completed in 2 minutes. The report is divided into two sections: "Overview" and "Event Log". The "Overview" section provides the following details:

- Task ID: a7510864-f53a-11e6-ba67-2200b9a448b
- Label: MyFirstTransfer
- Owner: HPC USER (hpcuser@globusid.org)
- Source: cunyhpc#cea (owner: cunyhpc@globusid.org)
- Destination: HPChelp_Personal_End_Point (owner: hpcuser@globusid.org)
- Condition: SUCCEEDED
- Requested: 2017-02-17 12:58 pm
- Completed: 2017-02-17 12:58 pm
- Transfer Settings:
 - verify file integrity after transfer
 - transfer is not encrypted
 - overwriting all files on destination

The "Event Log" section shows the following statistics:

- Files: 1
- Directories: 0
- Bytes Transferred: 1.07 GB
- Effective Speed: 25.92 MB/s
- Pending: 0
- Succeeded: 1
- Cancelled: 0
- Expired: 0
- Failed: 0
- Retrying: 0
- Skipped: 0

At the bottom of the report, there is a link to "view debug data". The footer of the page indicates copyright information for The University of Chicago and a legal link.

