

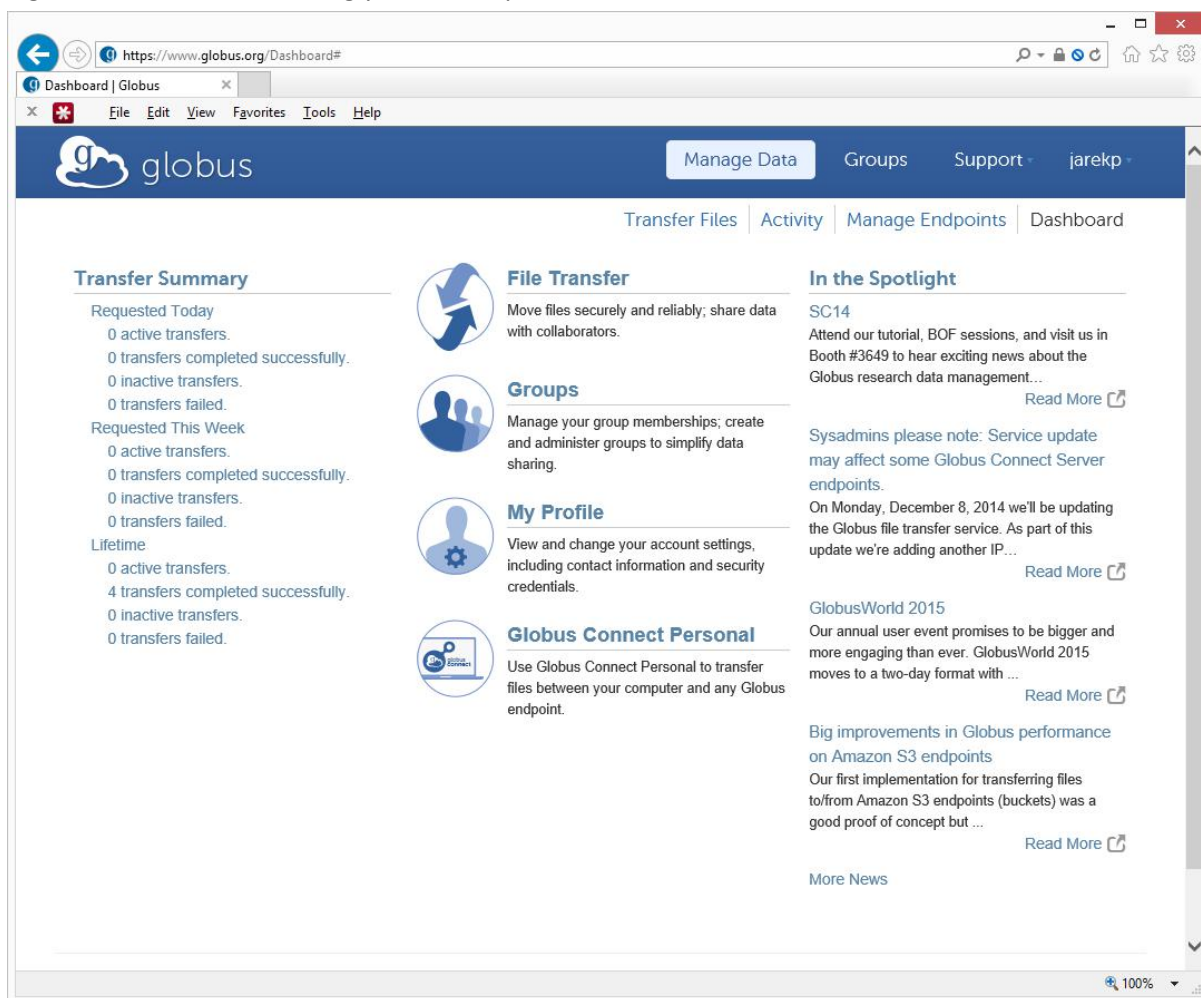
Using Globus Online to transfer data in BioHPC Lab

Globus Online is an online system based on GridFTP engine that supports fast and reliable data transfer which can be scheduled and controlled online in a web browser. Data can be transferred between endpoints, which can be data servers or Globus Connect clients. BioHPC Lab Globus endpoint servers are **biohpc#cbsulogin** and **biohpc#cbsulogin2**. You can transfer data to another server or to your computer (using Globus Connect client). It is also possible to share selected data with other Globus users without them having a BioHPC Lab accounts. You can find more information about Globus Online on their website <https://www.globus.org/>.

Transferring data

Here is an example how to transfer data between BioHPC Lab and a Windows laptop.

1. Sign up for Globus online account if you don't have one. Cornell Users can use existing Cornell NetID or gmail account to login.
2. Sign in to Globus online using your id and password.



The screenshot displays the Globus Online Dashboard in a web browser. The address bar shows <https://www.globus.org/Dashboard#>. The page features a dark blue header with the Globus logo and navigation links for 'Manage Data', 'Groups', 'Support', and the user 'jarekp'. Below the header, there are tabs for 'Transfer Files', 'Activity', 'Manage Endpoints', and 'Dashboard'. The main content area is divided into several sections:

- Transfer Summary:** A table showing transfer statistics for 'Requested Today', 'Requested This Week', and 'Lifetime'. Each category lists 'active transfers', 'transfers completed successfully', 'inactive transfers', and 'transfers failed'.
- File Transfer:** A section with a circular arrow icon and the text: 'Move files securely and reliably; share data with collaborators.'
- Groups:** A section with a group of people icon and the text: 'Manage your group memberships; create and administer groups to simplify data sharing.'
- My Profile:** A section with a person icon and the text: 'View and change your account settings, including contact information and security credentials.'
- Globus Connect Personal:** A section with a computer icon and the text: 'Use Globus Connect Personal to transfer files between your computer and any Globus endpoint.'
- In the Spotlight:** A section containing news items with 'Read More' links, including 'SC14', 'Sysadmins please note: Service update may affect some Globus Connect Server endpoints', 'On Monday, December 8, 2014 we'll be updating the Globus file transfer service...', 'GlobusWorld 2015', and 'Big improvements in Globus performance on Amazon S3 endpoints'.

The browser's status bar at the bottom indicates a zoom level of 100%.

3. Go to "Transfer Files", in the left panel "Endpoint" field type **biohpc#pbsulogin** (or **biohpc#pbsulogin2**) and click go. Login window will appear, you need to use your BioHPC Lab user id and password to connect to the endpoint, click Authenticate

Endpoint Start here... Path Go

Endpoint Path Go

BioHPC Lab endpoint name

Start by selecting an endpoint.

Start by selecting an endpoint.

Label This Transfer

This will be displayed in your transfer activity.

Transfer Settings

- 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

Get Globus Connect Personal
Turn your computer into an endpoint.

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File Edit View History Bookmarks Favorites Tools Help

Transfer Files | Globus

https://www.globus.org/app/transfer?origin_id=d20e623c-6d04-11e...

globus Manage Data Publish Groups Support Account

Transfer Files Activity Endpoints Bookmarks Console

RECENT ACTIVITY 0 0 0

Endpoint biohpc#cbsulogin Path Go

Endpoint Path Go

Please authenticate to access this endpoint

BioHPC Lab endpoint name

Login Server cbsulogin.tc.cornell.edu [change](#)

cbsulogin is our server

Username Password

advanced

enter you Lab id and password

Authenticate

Label This Transfer

This will be displayed in your transfer activity.

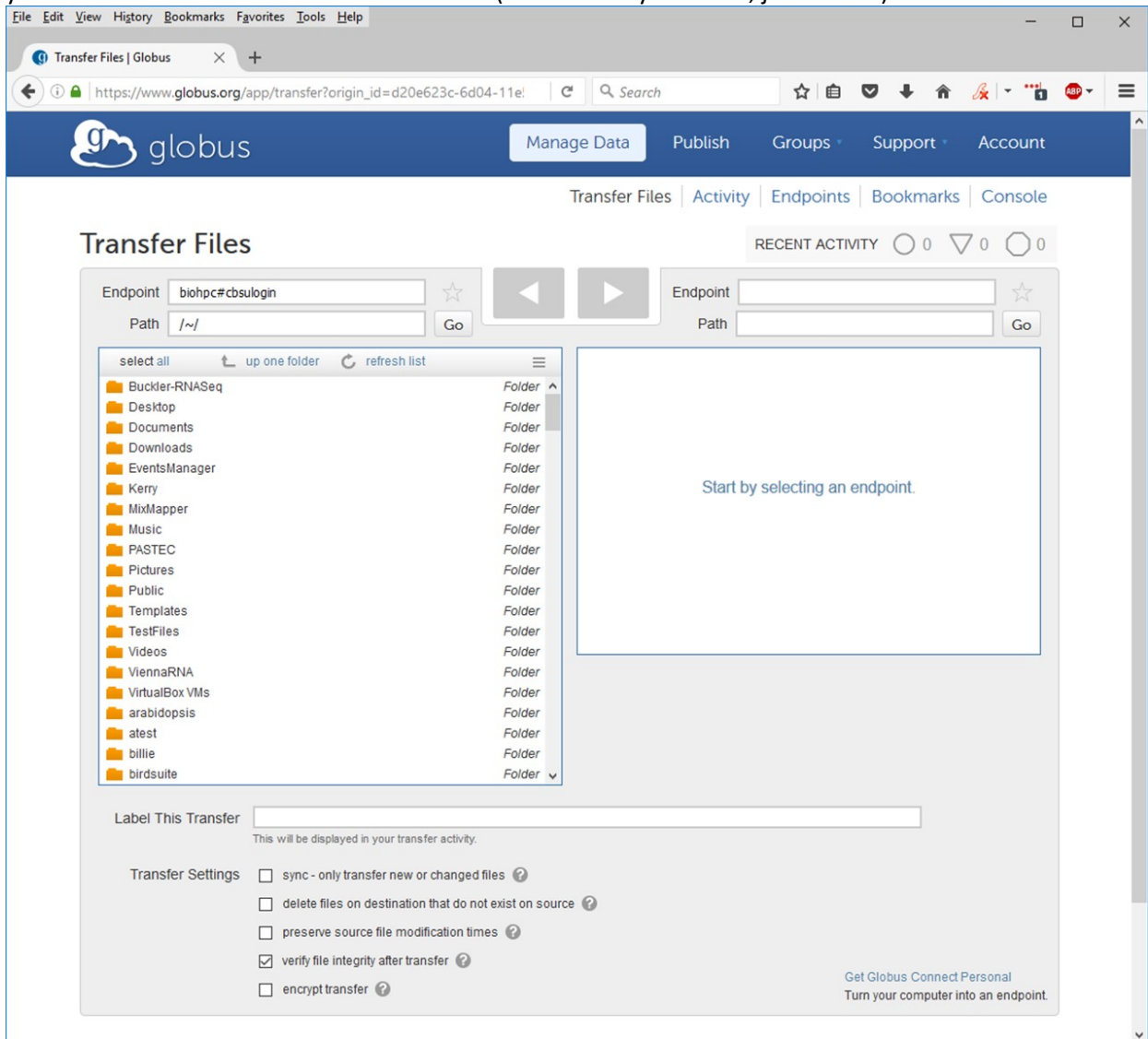
Transfer Settings

- 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 ?

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4. When authentication is successful files from your home directory will show up in the left panel. If you would like to connect to another **server** endpoint you can just type it in the right side “Endpoint” field and connect. Since we want to transfer to the local laptop (which is not a server) you need to install Globus Personal Connect (if it is already installed, just start it).



5. To setup your laptop computer as an endpoint to receive files, click “Manage Data” -> “Endpoints” -> “add Globus Connect Personal endpoint”

Manage Endpoints

[Endpoint List](#)
[+ add Globus Connect Personal endpoint](#)
[+ add Globus Connect Server endpoint](#)

Add Globus Connect Personal Endpoint
✕

Step 1 Get Your Globus Connect Personal Setup Key


Please enter a human-friendly name for your Globus Connect Personal endpoint to help you identify it.


Display Name * ?


[Generate Setup Key](#)

Step 2 Download & Install Globus Connect Personal

Click one of the buttons below to download and install Globus Connect Personal for your operating system.

 [for Mac OS X](#)

 [for Linux](#)

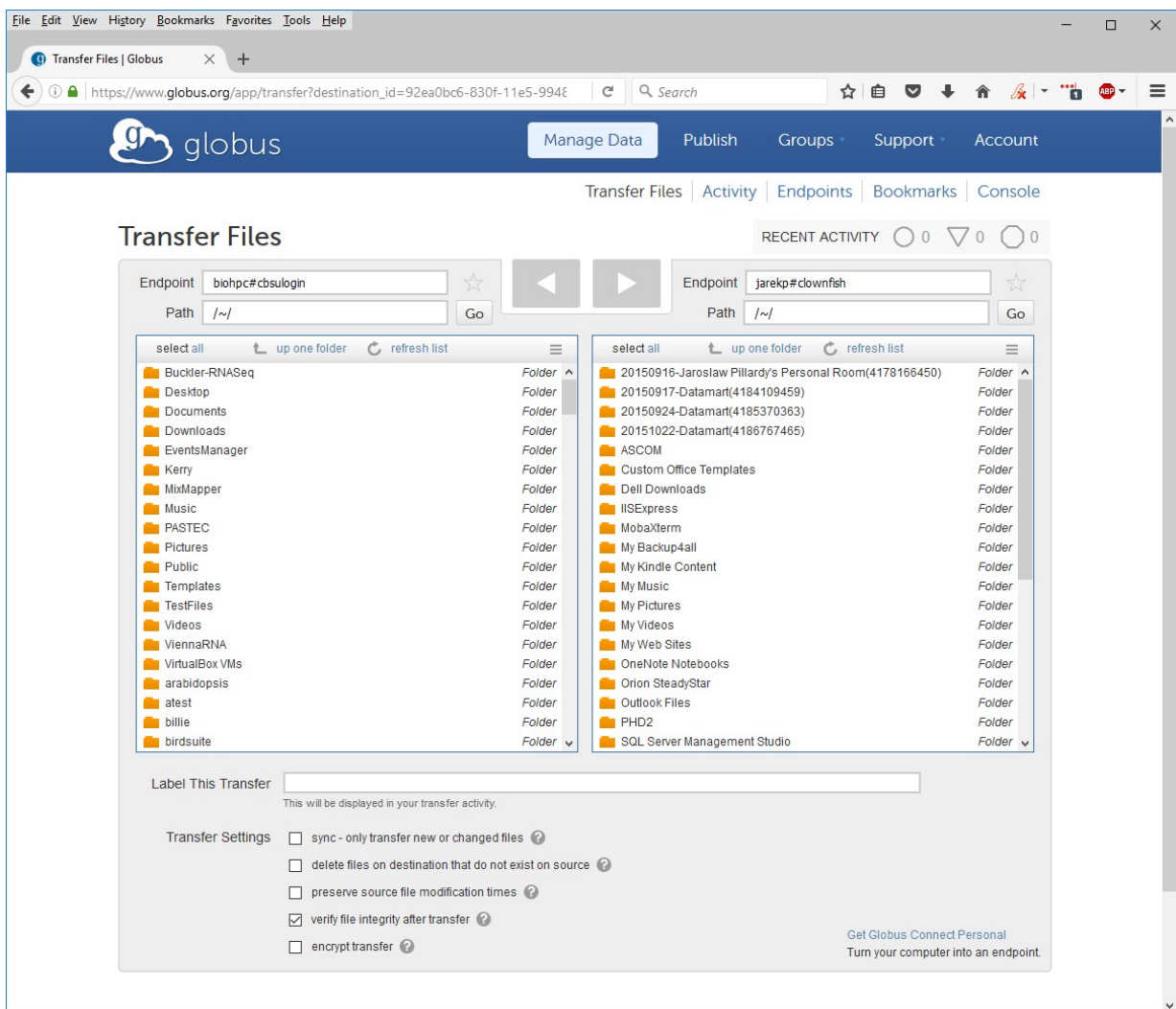
 [for Windows](#)

Once downloaded, run the installer. When prompted, paste in the Setup Key to complete the installation.

6. In “Display Name” field, give the new endpoint a name, and click “Generate Setup Key”. Copy the Setup key which will be used in the next step

7. Proceed to Step 2 – download and install Globus Connect Personal by following the instructions. Start the “Globus Connect Personal” software, you will be prompted to enter the Setup key, which is the string that was created in the previous step. Click “OK”. If prompted “Do you want to modify setting?” click “No”.

8. Now you can enter your new endpoint name in the right panel window. List of local files and directories will appear. Now you can change directories, select files and start transferring. If you expect the transfer to take longer you may want to name it (label) so you know what is/is not finished.



For more information and features go to their support site <https://www.globusonline.org/quickstart/>