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/](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.
3. Go to “Transfer Files”, in the left panel “Endpoint” field type `biohpc#cbsulogin` (or `biohpc#cbsulogin2`) 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.
BioHPC Lab endpoint name

cbsulogin is our server

enter your Lab id and password
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”
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/](https://www.globusonline.org/quickstart/)