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.

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](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.
• 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.
5. Monitor the Transfer
Go to https://www.globus.org/app/activity to monitor the file transfer.

Select the transfer to see a detailed report and statistics.
Appendix A: Linux Installation of globus connect personal endpoint

The following methods both presume that all of the dependencies are met for a Linux installation. Why running the installation, if the dependencies are not met the application will further instruct you.

Method A: If you are able to open a GUI

```
user@My-Desktop $ cd ~/
user@My-Desktop $ mkdir globus
user@My-Desktop $ cd globus
user@My-Desktop $ wget -O globusconnectpersonal-latest.tgz https://s3.amazonaws.com/connect\globusonline.org/linux/stable/globusconnectpersonal-latest.tgz
user@My-Desktop $ tar -xzvf globusconnectpersonal-latest.tgz
user@My-Desktop $ cd globusconnectpersonal-2.3.3/
user@My-Desktop $ ./globusconnectpersonal -setup <The Key that you generated in Step 3>
user@My-Desktop $ ./globusconnectpersonal -start -dir ~/
```

Insert the security key that you generated from Step 3 into the security code.

Select Connect and wait for a connection to be established before you move on to step 4.

Method B: Command Line Only

```
user@My-Desktop $ cd ~/
user@My-Desktop $ mkdir globus
user@My-Desktop $ cd globus
user@My-Desktop $ wget -O globusconnectpersonal-latest.tgz https://s3.amazonaws.com/connect\globusonline.org/linux/stable/globusconnectpersonal-latest.tgz
user@My-Desktop $ tar -xzvf globusconnectpersonal-latest.tgz
user@My-Desktop $ cd globusconnectpersonal-2.3.3/
user@My-Desktop $ ./globusconnectpersonal
```