Using Globus Online with UC3

filesystems

Introduction

This guide assumes that the user is not familiar with Globus Online and the basics of using it. The guide will go through the basics of using Globus Online to transfer data into the cycleseeder cluster. For additional information on Globus Online, see the quick start guide and Globus Online tutorials.

Getting Started

This guide will go through transferring files from your personal laptop to the cycleseeder cluster. In order to transfer from or to a desktop/laptop, Globus Connect will need to be installed and running so that Globus Online can access files from your laptop or desktop.

1. First, if you don't have a Globus Online account, go to the Globus Online signup page and sign up for an account
2. Go to the Globus Online downloads page and download the appropriate installer. Then install and start the software, adding your login details when asked to do so.

At this point, you'll have a Globus Online account and globus connect software installed.

Endpoints

In order to transfer files to or from sites using Globus Online, there needs to be an endpoint defined for the location and the user that is initiating the transfer must activate the endpoints. Currently there is one endpoint defined in Globus Online that can be used to transfer data into and out of UC3's data staging host, uc3-data.uchicago.edu. The endpoint is uc3#uc3-data which connects to the Hadoop filesystem at /mnt/hadoop. Globus Connect also creates and activates an adhoc endpoint when it's running, so the only endpoint that needs to be activated is the uc3#uc3-data endpoint.

Activating uc3#uc3-data endpoint

The Globus online endpoint uses CILogon in order to allow for seamless integration with the uc3-sub logins and to make accessing the cycleseeder cluster easier for users. The steps needed to use the uc3 endpoint are as follows:

1. Go to manage endpoints page and click on the view all tab
2. Enter uc3 in the filter by box, and hit the search button:

1. Click on the activate link next to uc3#uc3-data
2. Select University of Chicago in the following dropdown:
1. Enter your cnet id and password in the CILogon page:

1. You should then be able to enter the uc3#uc3-data endpoint as a source or destination in the start transfers page:

**Transferring files**

1. Now that the UC3 endpoint has been activated, go the the transfer page and select your laptop as the first endpoint. You system should be called something like username#mac or username#pc where username has been replaced with the login name for your Globus Online account.
2. Next select the UC3 endpoint as the second endpoint. Globus Online should default to your home directory.
3. Select a file on your laptop that you'd like to transfer and click on the -> arrow button to initiate the transfer.
4. You should receive an email when the transfer has been completed