

Monsoon and Globus

Utilizing Globus tools for fast, easy, & powerful data sharing

Presentation media, including this slide-stack:

rcdata.nau.edu/hpcpub/globus

Presentation topics

- General introduction to Globus' capabilities and benefits
- Understanding its user-facing architecture
- Applicable use-cases (or alternative approaches)
- Usage walk-throughs (web client and command line)
- Personal end-points for workstations
- Group collaboration with both edu AND unaffiliated users

Globus: multi-use data sharing utility

What: Globus is a great solution for transferring data to/from Monsoon, as well as to the local filesystems of other Universities and research facilities.

Using its simple web interface like a virtual remote control, users may submit instructions for data-transfers, or may schedule data-syncs... and Globus takes it from there! It can even update you via email about status or exceptions.

How: Your data is transferred directly between the source and destination systems. Meanwhile, the service tunes performance parameters, maintains security, monitors progress, and validates correctness. You can check the transfer status at any time via a dashboard.

When: If a network/hardware issue is encountered, Globus will automatically resume when all components are ready. Even if an issue requires user intervention, Globus will resume after you've remedied the problem.

How your bytes become a file

- **Local**

- SOFTWARE → disk
- disk → OS → disk
- disk → SOFTWARE → disk

- **Remote**

remote disk

→ SOFTWARE

→ network

→ SOFTWARE

→ local disk



How your bytes become a file (II)

- Local

- WORD PROCESSOR → disk
- WEB BROWSER → disk
- GLOBUS PERSONAL → disk

- Remote

→ remote HPC disk (eg @ ASU)

→ GLOBUS SW (running on Sol)

→ network

→ GLOBUS SW (on Monsoon)

→ → local HPC disk

(/home, /scratch, /projects)



Architecture of a Globus transfer

remote HPC disk (e.g. @ ASU)

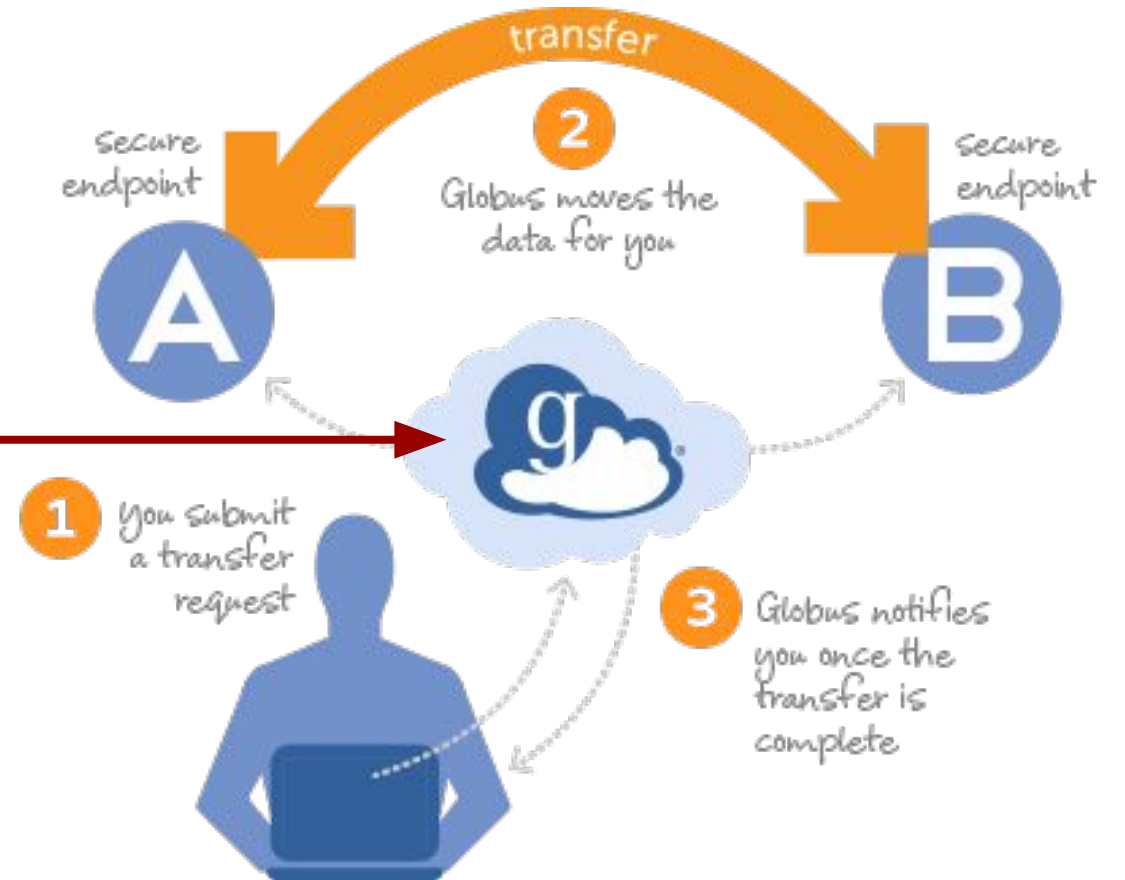
→ **GLOBUS SW** (running on cluster, 'A')

→ network

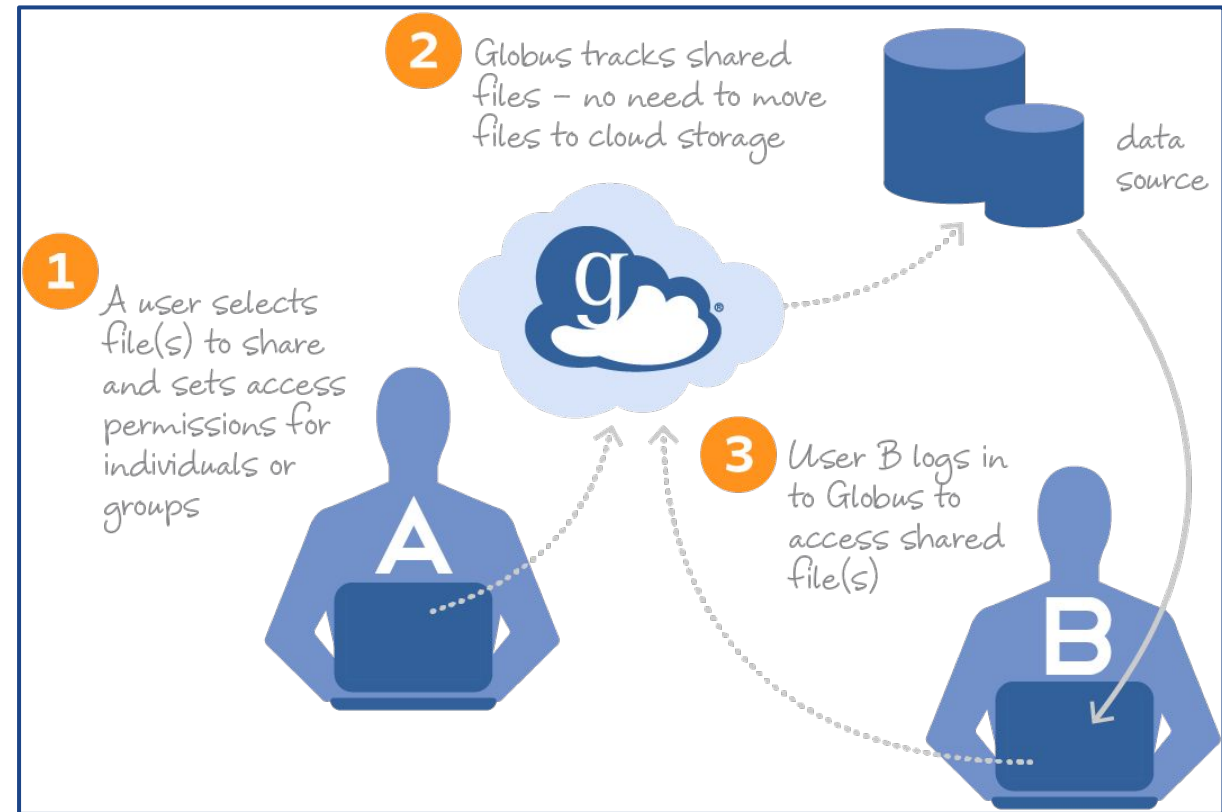
→ **GLOBUS SW** (on Monsoon, 'B')

→ local HPC disk

(/home, /scratch, /projects)



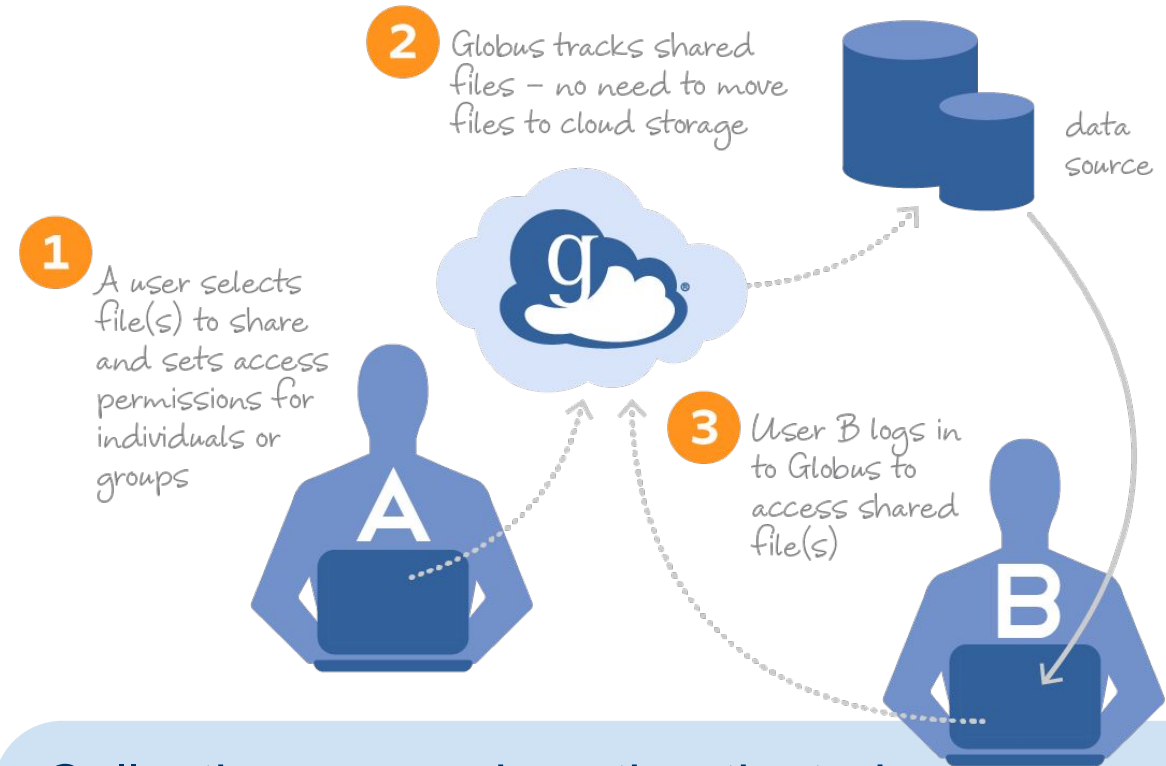
Globus transfers



What is a Globus 'collection'?

A collection is a named set of files which are hierarchically organized in folders, and associated with a specific storage gateway.

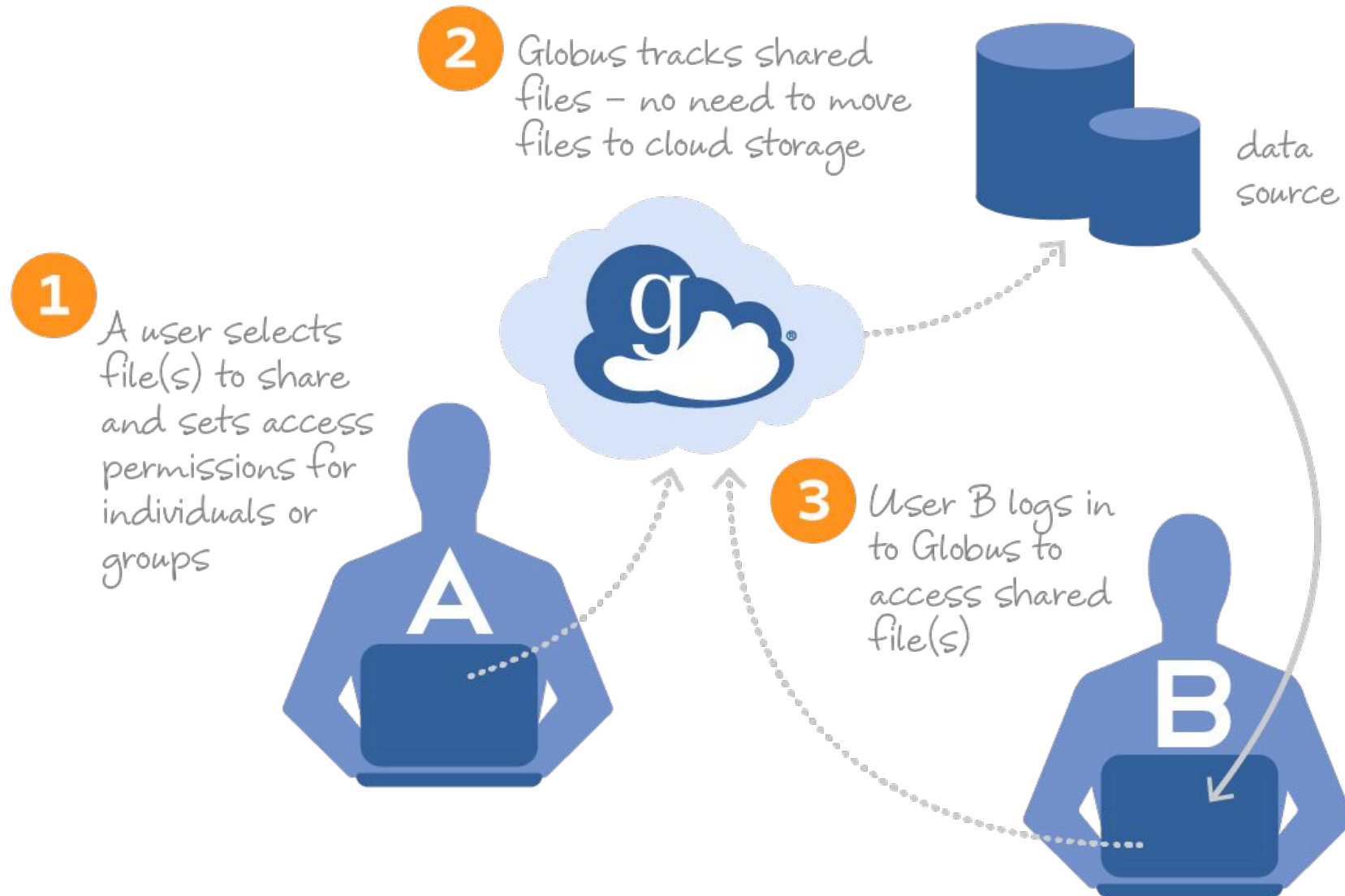
- **Mapped collection:** Access requires a user to have a local account. Their Globus identity is *mapped* to their local account and its local filesystem.
- **Guest collection:** Access is based on permissions explicitly granted by an authenticated collection owner.



Collection access is authenticated:

1. Users: Globus Auth-issued OAuth2 access tokens, and audit-consents
2. Files: with data access policies defined in the collection itself (ACLs)

What is a Globus 'collection'?

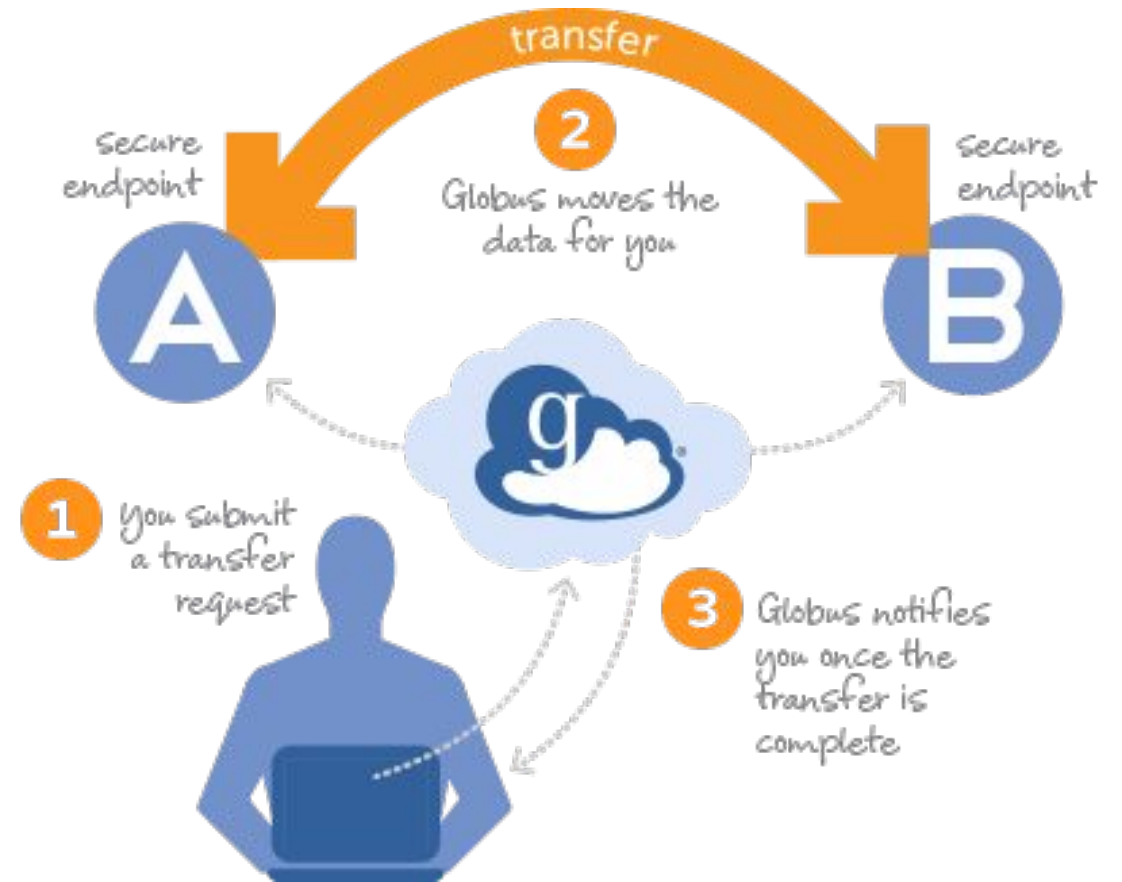


Globus 'collections'

A Globus "collection" is simply a pre-defined set of files accessible via Globus' filesharing software.

For example, Monsoon hosts the **NAU HPC Filesystems** collection through Globus' server-software (which runs on the dtn1 login-node).

Individual users may also install/run Globus Connect Personal on their own desktop/laptop to enable transfers between PC ↔ any other endpoint.



Globus use-cases

Globus is well suited for transferring data sets to and from an HPC resource like Monsoon, without the need for a command line or extensive technical knowledge.

This also comes in especially handy when a user wants to make a quick file transfer, and may not have access to a terminal: only a web browser is needed in most cases.

Globus is a fantastic solution for transferring data between/among different collaborators, *especially* when the size of the data or number of files gets relatively large.

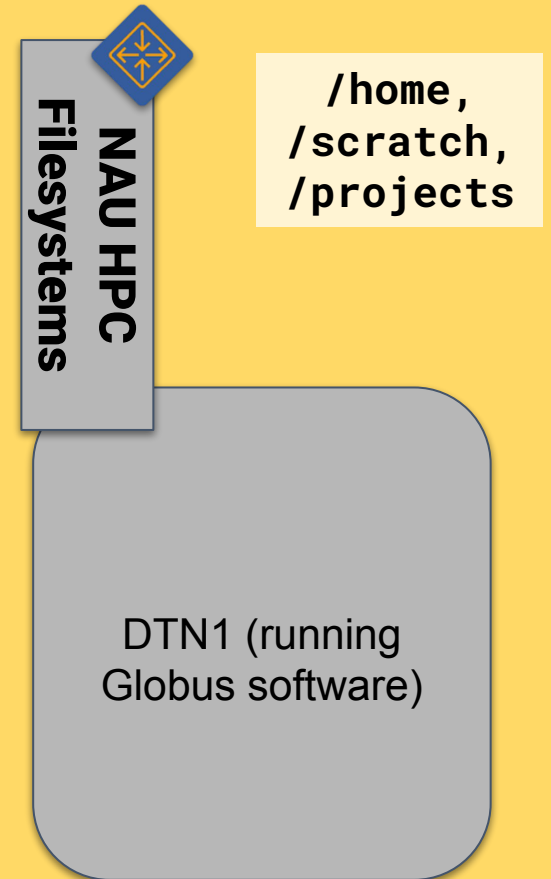
- ✨ Monsoon ↔ personal PCs*
- ✨ Monsoon ↔ other HPCs/EduS**
- ✨ My Monsoon ↔ *your* Monsoon
- ✨ PC_A ↔ PC_B*
- ✨ Remote collaborator(s) ↔ Monsoon
 - NAU-affiliated, or not
 - Different slurm or enterprise group
- ✨ Time consuming & complex xfers
- ✨ Advanced
 - CLI tools (via conda) and APIs

Globus' capabilities and benefits

- Secure collaboration!
 - Highly customizable, granular permissions
 - Share as read-only or full-access
 - Require logins, or allow anonymous access
- Direct transfers between Monsoon ↔ *other institutions'* filesystems
 - Networked-filesystem to networked-filesystem!
 - Simple copies, or (schedulable!) sync tasks
- Also between Monsoon ↔ personal PCs, G-Drive, OneDrive...
- Web-based interface – no user-software required
 - CLI tools also available, as alternative to web

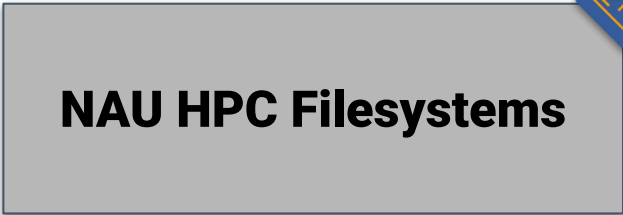
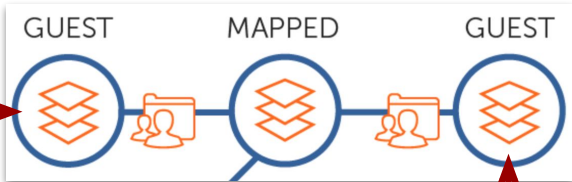
Globus 'collections'

- A Globus “collection” is simply a pre-defined set of files accessible via Globus’ filesharing software.
- For example, Monsoon hosts the **NAU HPC Filesystems** collection through Globus’ server-software (which runs on the dtn1 login-node).
- Individual users may also install/run Globus Connect Personal on their own desktop/laptop to enable transfers between PC-collection ↔ any other collection.

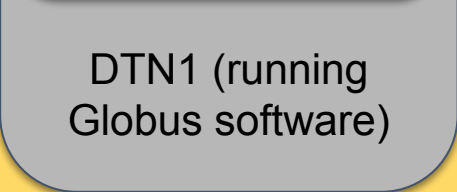
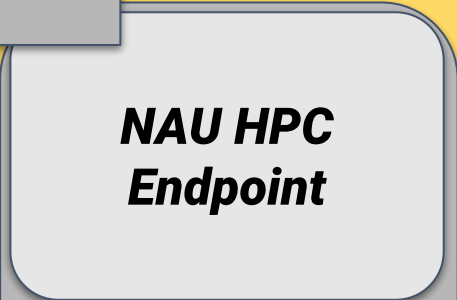
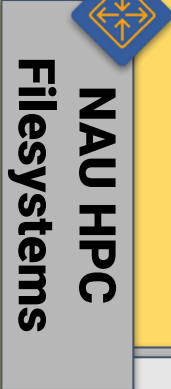


Globus 'collections'

A "guest collection" is created by YOU!



YOU control sharing-access to guest collections!



Guest collection via mapped collection

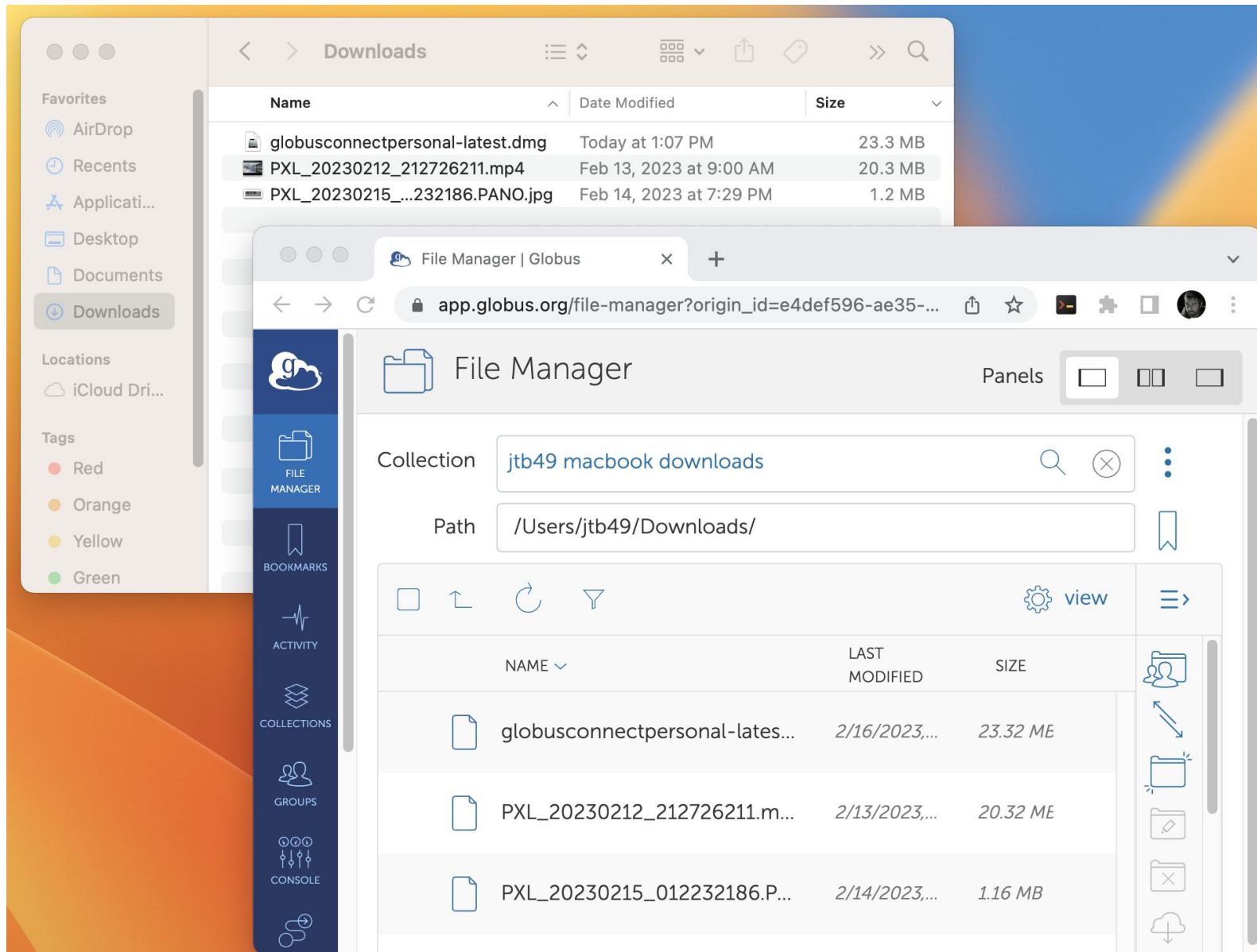
The image shows a terminal window and a web-based file manager interface. The terminal window displays the output of the `ls -l` command in a directory named `/projects/beekman_lab`. The output shows two files: `PROJ_DETAILS` (108 bytes) and `public_data` (a directory).

```
[jtb49@wind /projects/beekman_lab ]  
$ ls -l  
total 5  
-rw-----+ 1 root ITS-HPC-admin 108 Dec  7 15:07 PROJ_DETAILS  
drwxrwsr-x  2 root ITS-HPC-admin   2 Dec  7 15:07 public_data  
[jtb49@wind /projects/beekman_lab ]  
$
```

The web-based file manager interface, titled "File Manager | Globus", shows the "Beekman proj collection" selected. The path is `/`. The interface displays a table of files and folders:

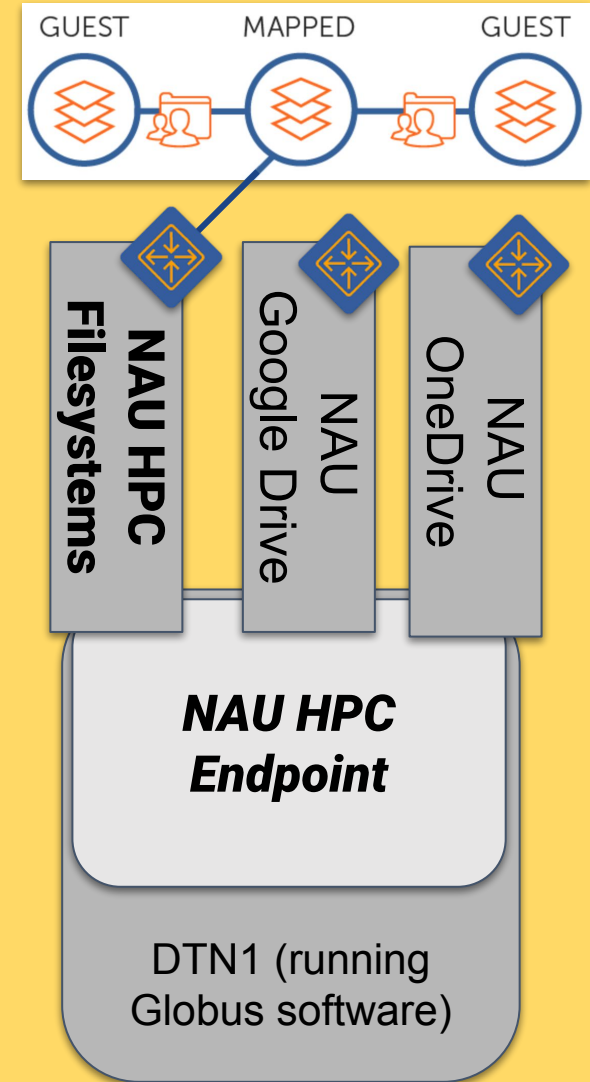
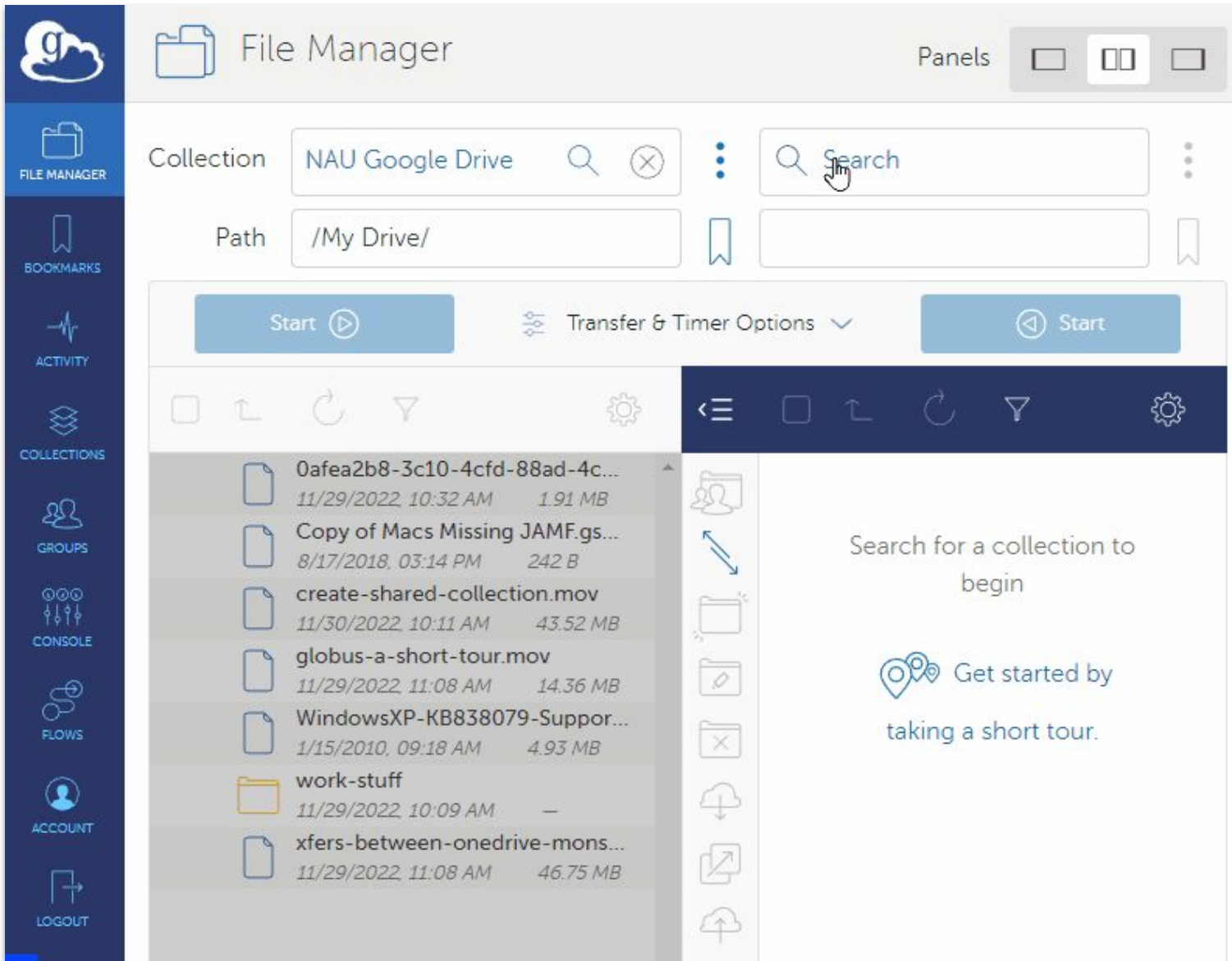
NAME	LAST MODIFIED	SIZE
PROJ_DETAILS	12/7/2022, 03:07PM	108 B
public_data	12/7/2022, 03:07PM	-

Guest collection via Globus Personal



Demo 'A': Quick Globus interface tour

Interface: Example transfer



app.globus.org/file-manager?origin_id=4ce35914-620b-11e9-bf44...

File Manager

Collection: NAU HPC Filesystems

Path: /home/jtb49/ondemand/

select all up one folder refresh list filter view

NAME ^	LAST MODIFIED	SIZE	TYPE
RStudio.tar	12/17/2020, 05:36 PM	133.12 KB	file
dev-retired2	1/27/2022, 12:47 PM	—	folder
dev-retired	12/3/2020, 02:00 PM	—	folder
dev	8/23/2022, 04:36 PM	—	folder
data	12/2/2020, 12:25 PM	—	folder

RStudio.tar
 dev-retired2
 dev-retired
 dev
 data

- Transfer or Sync to...
- Rename
- Delete Selected
- Download
- Open
- Get Link

Start

Transfer & Timer Options

Label This Transfer

Transfer Settings

NOTE: These settings will persist during this session unless changed.

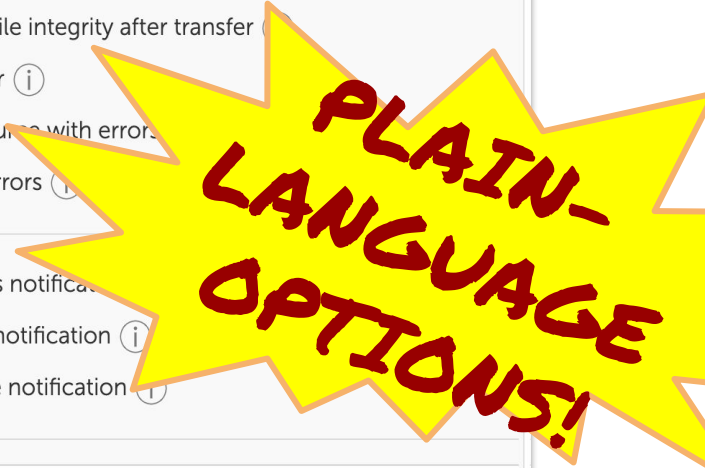
- sync - only transfer new or changed files
- delete files on destination that do not exist on source
- preserve source file modification times
- do NOT verify file integrity after transfer
- encrypt transfer
- Skip files on source with errors
- Fail on quota errors

Notification Settings

- Disable success notification
- Disable failure notification
- Disable inactive notification

Schedule Start: mm/dd/yyyy, --:-- --

Repeat: does not repeat



Transfer options (1/2)

- sync - only transfer new or changed files (i)

Selecting this option gives the ability to choose how files will be overwritten on the destination file system.

where
the

- checksum is different
- checksum is different
- file does not exist on destination
- file size is different
- modification time is newer

- delete files on destination that do not exist on source (i)

Files which do not exist on the source endpoint, but do exist on the destination endpoint will be deleted from the destination endpoint.

- preserve source file modification times (i)

After transfer of a file, the modification time on the destination will reflect the modification time on the source instead of the time the transfer completed.

- do NOT verify file integrity after transfer (i)

After transfer, verify that the source and destination file checksums match. If they don't, retransfer the entire file and keep trying until it succeeds. If a collection is configured to disable verification of file integrity, this option is ignored.

- encrypt transfer (i)

Encrypt the data while it is being transferred. If encryption is requested but is not supported by an endpoint, Globus will signal an error. Please visit <https://docs.globus.org/faq/security/> for more information on our encryption approach.

- Skip files on source with errors (i)

Files on source with "file not found" and "permission denied" errors will be skipped rather than cause the transfer to fail.

Transfer options (2/2)

Fail on quota errors ⓘ

If the storage quota is exceeded during the transfer, the transfer will fail rather than retry.

Disable success notification ⓘ

An email will not be sent when this transfer succeeds.

Disable failure notification ⓘ

An email will not be sent when this transfer fails.

Disable inactive notification ⓘ

An email will not be sent when this transfer becomes inactive.

Schedule Start

mm/dd/yyyy --:--:--



Repeat

does not repeat

does not repeat

days

hours

minutes

App capability 'Consents'

"My Camera App" Would Like to Access the Camera

This app uses the camera to take cute pictures of cats.

Don't Allow **OK**

Activity

https://discordapp.com/activity

discordapp.com wants to

Use your microphone

Allow **Block**

USER SETTINGS My Account INPUT DEVICE

9:51 19%

YouTube Music
App permissions

Version 5.22.54 may request access to

- Location
 - access precise location only in the foreground
- Microphone
 - record audio
- Storage
 - modify or delete the contents of your shared storage
- Other
 - read audio files from shared storage
 - Advertising ID Permission
 - run foreground service
 - access Bluetooth settings
 - control vibration
 - This app can appear on top of other apps
 - Google Play billing service
 - control Near Field Communication
 - run at startup
 - have full network access
 - view network connections
 - prevent phone from sleeping
 - view Wi-Fi connections
 - pair with Bluetooth devices
 - show notifications
 - receive data from Internet
 - activity recognition
 - read Google service configuration

About audit 'Consents'

The Globus service has many indiv. **capabilities** ...each one is individually authorized via these consent pop-ups

Account ▾

Globus Web App would like to:

- ✓ View the identities in your Globus account ⓘ
- ✓ Manage data using Globus Transfer ⓘ
- ✓ Search for data using your identities and groups ⓘ
- ✓ Manage your Globus Groups ⓘ

To work, the above will need to: ▾

By clicking "Allow", you allow **Globus Web App**, in accordance with its [terms of service](#) and [privacy policy](#), to use the above listed information and services. You can rescind this and other consents [at any time](#).

Allow

Deny

Collection NAU OneDrive

Path /My files/

view

Authentication/Consent is required for the Globus web app to perform HTTPS uploads on your behalf.

Continue

Account ▾

Globus Web App would like to:

- ✓ Access your data on NAU OneDrive via HTTPS ⓘ

To work, the above will need to: ▾

By clicking "Allow", you allow **Globus Web App**, in accordance with its [terms of service](#) and [privacy policy](#), to use the above listed information and services. You can rescind this and other consents [at any time](#).

Allow

Deny

Globus sign-in options

The screenshot displays the Globus sign-in interface. At the top, the Globus logo is visible. The main heading is "Log in to use Globus Web App". Below this, users are prompted to "Use your existing organizational login" with examples like "university, national lab, facility, project". A search box labeled "Look-up your organization..." is shown with a dropdown arrow. A red arrow points from this search box to a magnified view of the search results. The magnified view shows the search term "arizona" and a list of three results: "The University of Arizona", "Arizona State University", and "Northern Arizona University". Below the search box, a "Continue" button is present. A red arrow points from the "Continue" button to the "OR" separator. Below the separator, there are two buttons: "Sign in with Google" and "Sign in with ORCID iD". A red arrow points from the "Sign in with Google" button to the left. Below these buttons, a link reads "Didn't find your organization? Then use Globus ID to sign in. (What's this?)".

globus

Log in to use Globus Web App

Use your existing organizational login
e.g., university, national lab, facility, project

Look-up your organization...

By selecting Continue, you agree to Globus [terms of service](#) and [privacy policy](#).

Continue

OR

Sign in with Google

Sign in with ORCID iD

Didn't find your organization? Then use [Globus ID to sign in](#). (What's this?)

arizona

- The University of Arizona
- Arizona State University
- Northern Arizona University

Exercise #1: login & browse your files

1. Visit app.globus.org in a browser
2. Select NAU under **Use your existing org login**, then **Continue**
3. Type “nau” in the **Collection** field to filter for Monsoon-based
4. Click on the **NAU HPC Filesystems** title *...and explore!*
5. Read and authorize all “consents” you are presented with

NOTE: Non-HPC users can


- Browse OneDrive & G-Drive,
- but not NAU HPC Filesystems

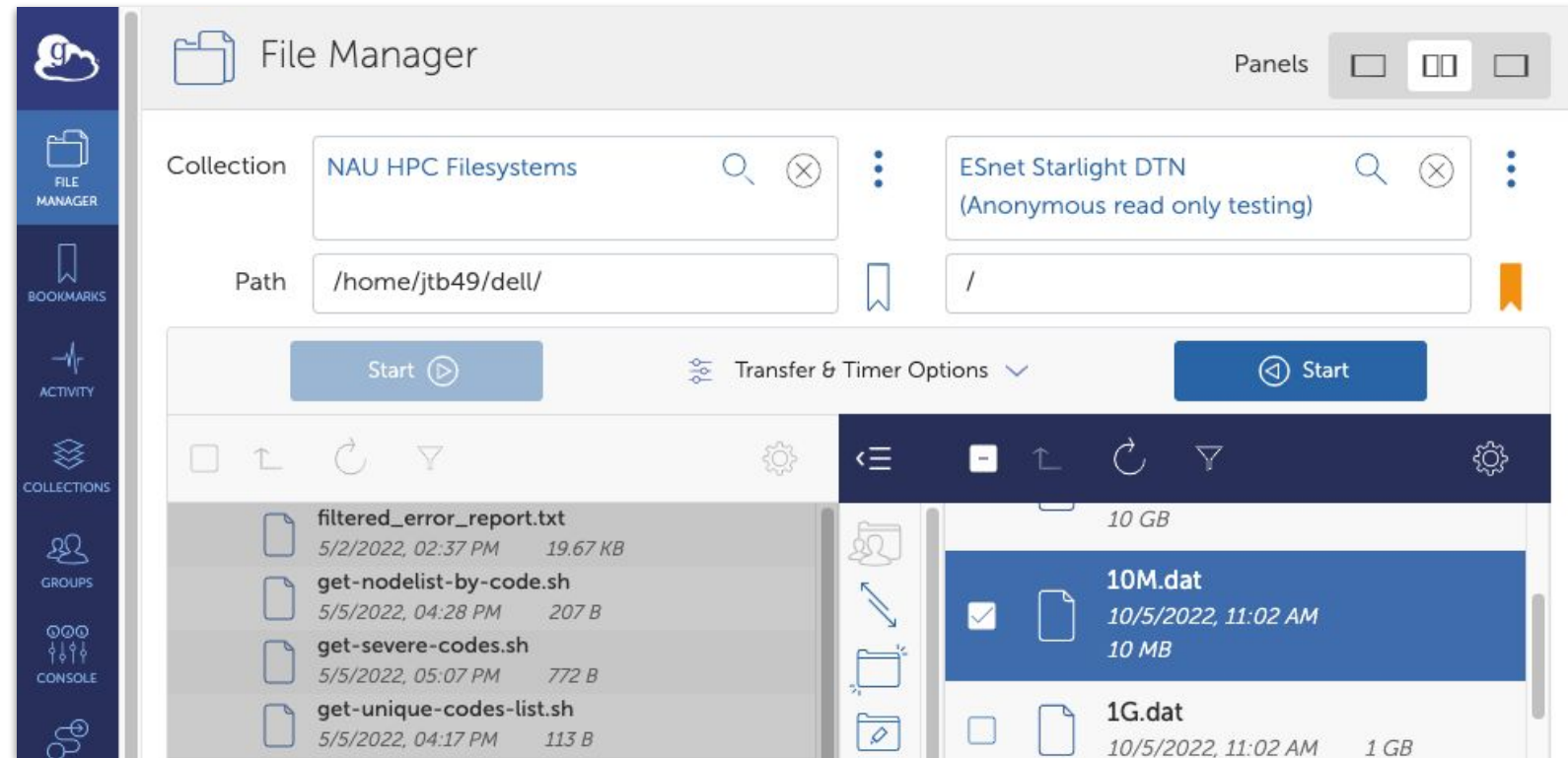
Cool stuff:

- You can *manually* change the Path field
- You can “bookmark” a folder within a collection
- What else caught your attention?

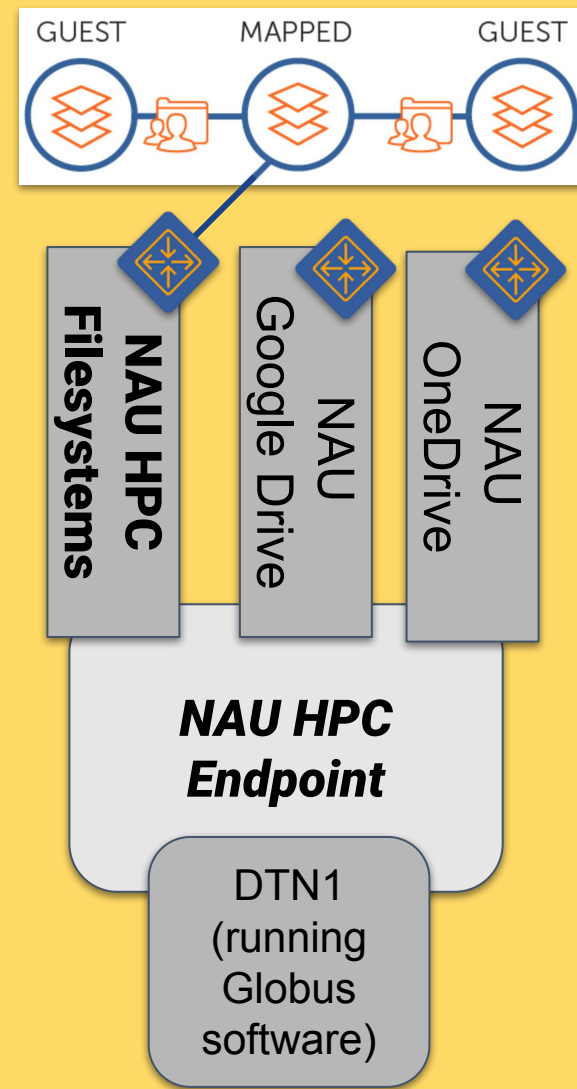
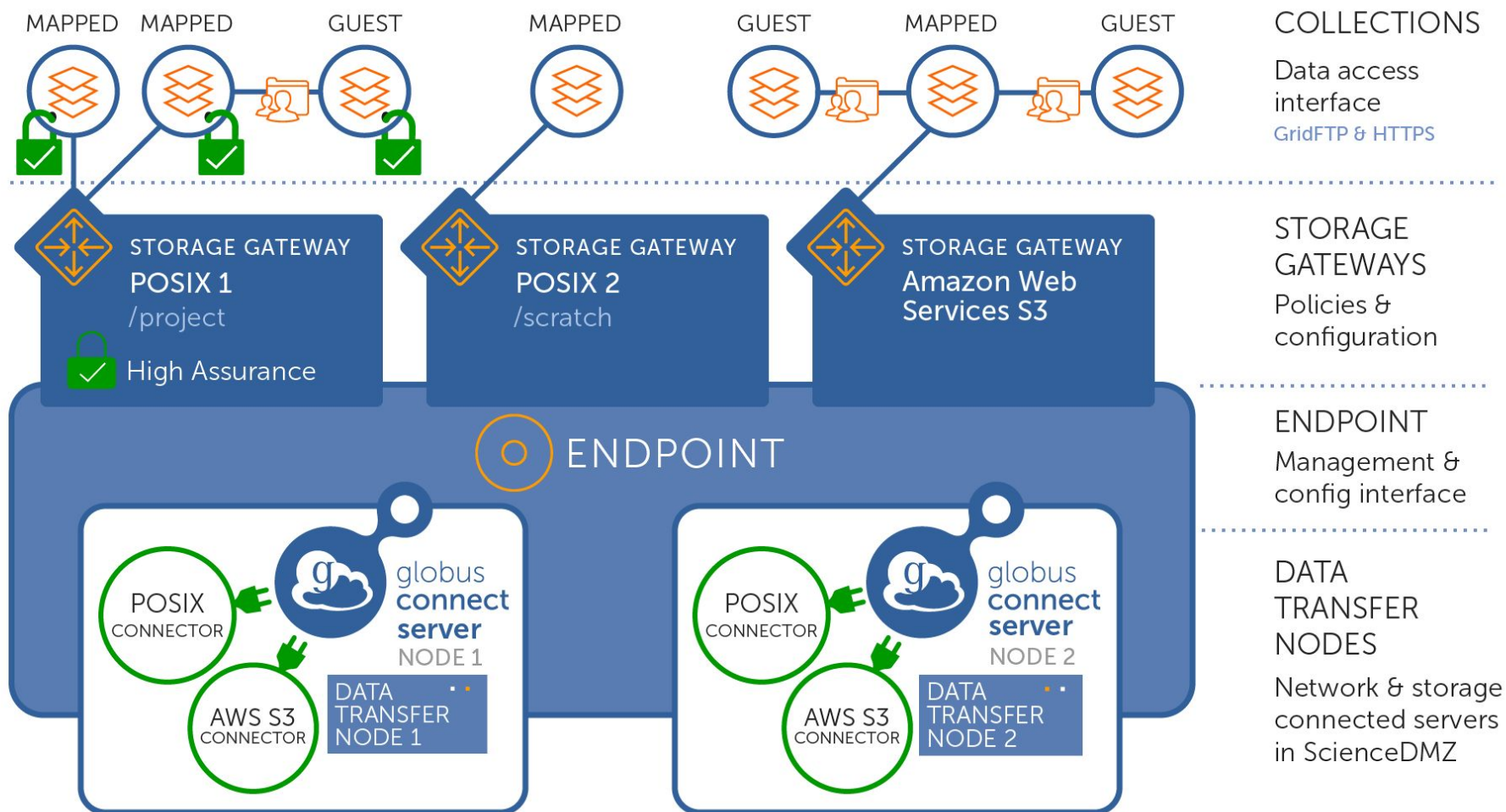
Demo 'B': Transfer between collections, via web

Exercise #2: copy a small file to Monsoon

- Set two-panel view
- In the new panel:
 - Find either your G-/OneDrive or this **ESnet** collection →
 - Select a file
 - Click 
- Check status via *sidebar* > **ACTIVITY**
- Bonus: upload a file from your desktop



Architecture & Interface



Collab/Sharing via Guest Collections

File Manager

Collection: NAU HPC Filesystems

Path: /projects/

select none up one folder refresh list

NAME ▾

<input checked="" type="checkbox"/>	beekman_lab	<ul style="list-style-type: none">ShareTransfer or Sync to...RenameDelete Selected
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NAU HPC Filesystems

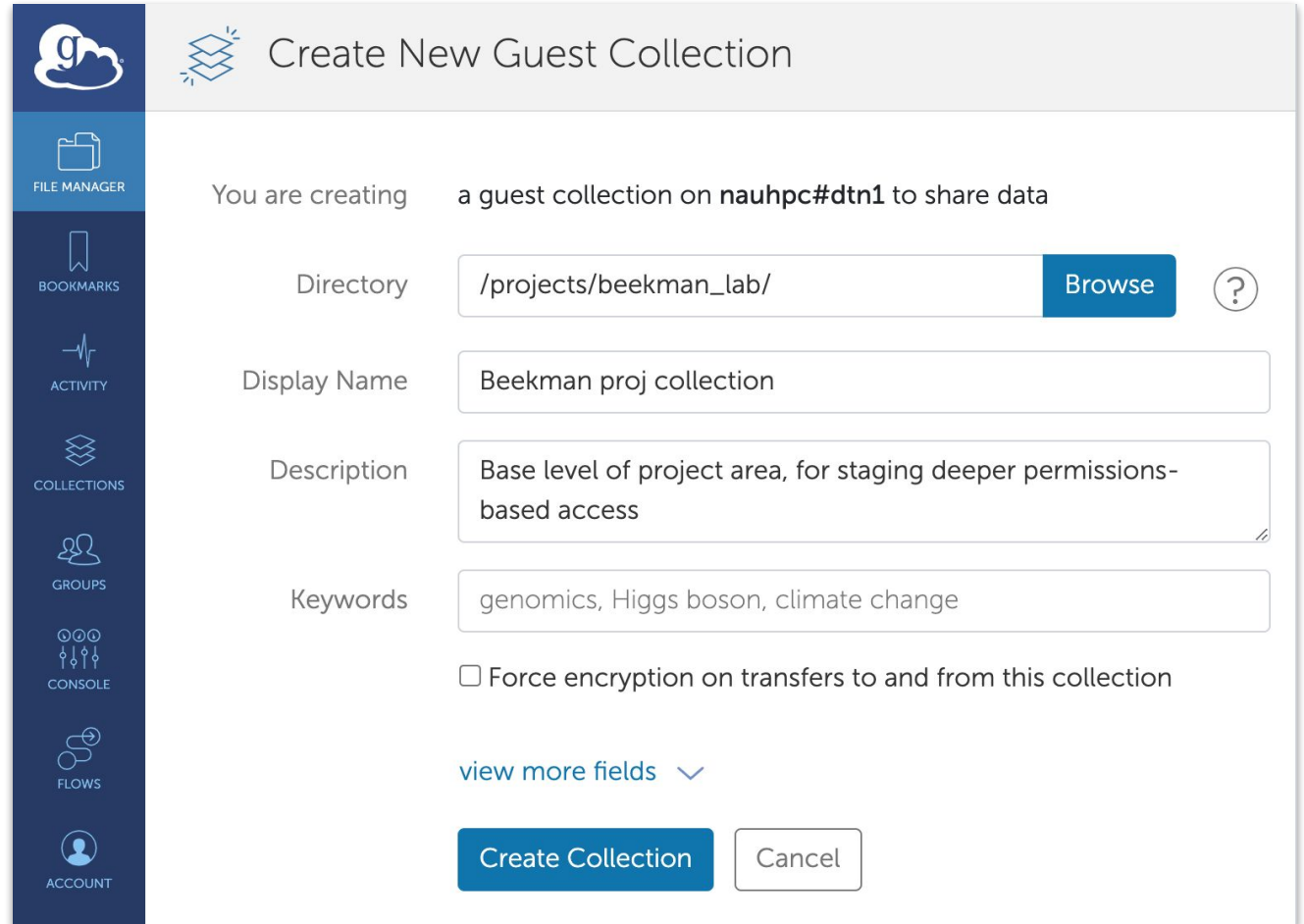
Overview Collections Credentials

Guest Collections [+ Add a Guest Collection](#)

COLLECTION NAME	
asdfasdf	Overview Permissions Roles

Adding a Guest Collection

- Think of a collection like its own pre-defined filesystem
 - “/” in the file-browser equates to the chosen directory →
- **On top of** your Guest Collection, you will define Access Control Lists for files & directories
- Share with
 - Specific Globus users
 - All Globus-auth users
 - Anonymous/web



The screenshot shows the 'Create New Guest Collection' interface in the Globus ecosystem. On the left is a dark blue sidebar with navigation icons for File Manager, Bookmarks, Activity, Collections (highlighted), Groups, Console, Flows, and Account. The main content area has a light gray header with the title 'Create New Guest Collection'. Below the header, it states 'You are creating a guest collection on nauhpc#dtn1 to share data'. The form includes several fields: 'Directory' with the value '/projects/beekman_lab/' and a 'Browse' button; 'Display Name' with the value 'Beekman proj collection'; 'Description' with the value 'Base level of project area, for staging deeper permissions-based access'; and 'Keywords' with the value 'genomics, Higgs boson, climate change'. There is also an unchecked checkbox for 'Force encryption on transfers to and from this collection' and a 'view more fields' link. At the bottom are 'Create Collection' and 'Cancel' buttons.

Friendliest UI in the game!

BECKMAN PROJ COLLECTION
Add Permissions - Share With

Path: [Browse](#)

Share With

- user - share with specific individuals
- group - make data accessible to members of a group
- all users - make data accessible to all logged in users of Globus
- public (anonymous) - make data accessible to everyone

User: [Change](#)

Send Email No email will be sent to this user

(Permissions) read write

[Add Permissions - Share With](#)

BECKMAN PROJ COLLECTION
Add Permissions - Share With

Path:

Share With

- user - share with specific individuals
- group - make data accessible to members of a group
- all users - make data accessible to all logged in users of Globus
- public (anonymous) - make data accessible to everyone

Who:

(Permissions) read write

[Add Permission](#) [Cancel](#)

Beekman proj collection

Overview Permissions Roles

Shared With [Add Permissions - Share With](#)


USER OR GROUP	CREATED	READ	WRITE	
Path: / Show link for sharing				
NAU HPC Endpoint (9b7bebd2-94da-4b73-8093-78d3d03889dd@clients.auth.globus.org)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Key
Jason Buechler (jtb49@nau.edu)	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Key
Path: /bulk_data/ Show link for sharing				
All Users	11/17/2022, 06:29 PM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Trash
Jason Buechler (buechler@gmail.com)	11/17/2022, 06:35 PM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Trash

Demo 'C': setup a shared area

Exercise #3: create/share a Guest Collection

- Create a new directory in your home (e.g. ~/jb_collection)
- “Share” it, via side-toolbar or right-click
- Click “Add a guest collection” and fill-out required fields
- Click “Create collection”
 - Note you (and NAU’s “endpoint”) have default access
- Click “Add Permissions – Share With”
 - Give access to another NAU user
 - Give read-only access to a non-nau email address (click **Add** even if not found)

When you forget what path this collection uses

 jtb project on monsoon

[Overview](#) [Permissions](#) [Roles](#)

Display Name	jtb project on monsoon	Manage Consent
Entity Type	Guest Collection (GCS)	
Endpoint	NAU HPC Endpoint	Edit Attributes
Domain		

JTB PROJECT ON MONSOON
Edit Attributes

Display Name

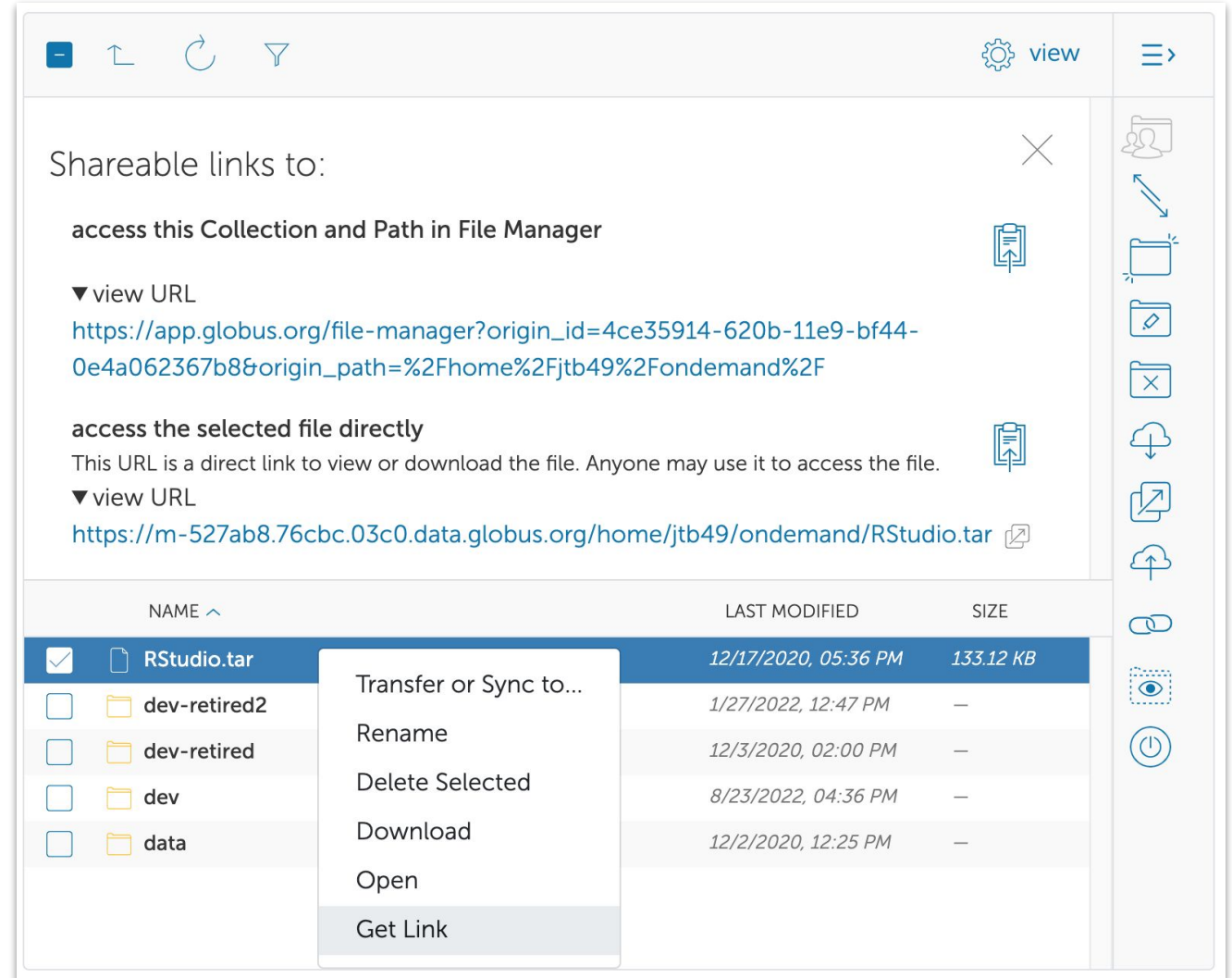
Default Directory [Browse](#) [?](#)

Force encryption on transfers to and from this collection

[Submit](#) [Cancel](#)

Sharing data (via link)

- Two kinds of globus links
 - 1st: “view” link
(Goes to a specific folder)
 - 2nd: “open file”
(Not available for dirs)
- Share individual files
 - Specific Globus users
 - All Globus-auth users
 - Anonymous/web



The screenshot displays the Globus File Manager interface. At the top, there are navigation icons (back, forward, refresh, search) and a 'view' button. Below the navigation bar, there is a section for 'Shareable links to:' with a close button (X). This section contains two options:

- access this Collection and Path in File Manager**: Includes a 'view URL' and a long URL: https://app.globus.org/file-manager?origin_id=4ce35914-620b-11e9-bf44-0e4a062367b8&origin_path=%2Fhome%2Fjtb49%2Fondemand%2F
- access the selected file directly**: Includes a note: 'This URL is a direct link to view or download the file. Anyone may use it to access the file.' and a 'view URL' pointing to: <https://m-527ab8.76cbc.03c0.data.globus.org/home/jtb49/ondemand/RStudio.tar>

Below the links, there is a table listing files and folders. A context menu is open over the 'RStudio.tar' file, showing options: Transfer or Sync to..., Rename, Delete Selected, Download, Open, and Get Link.

NAME ^	LAST MODIFIED	SIZE
<input checked="" type="checkbox"/> RStudio.tar	12/17/2020, 05:36 PM	133.12 KB
<input type="checkbox"/> dev-retired2	1/27/2022, 12:47 PM	—
<input type="checkbox"/> dev-retired	12/3/2020, 02:00 PM	—
<input type="checkbox"/> dev	8/23/2022, 04:36 PM	—
<input type="checkbox"/> data	12/2/2020, 12:25 PM	—

Sharing with non-NAU, new-to-Globus users

Jason Buechler (jtb49@nau.edu) shared folder "/bulk_data") on "Beekman Lab" with jason@po.cwru.edu Inbox x



Globus Notification <no-reply@globus.org>

10:57 AM (34 minutes ago)



to jtb3 ▾

Globus user Jason Buechler (jtb49@nau.edu) shared the folder "/bulk_data" on the endpoint "Beekman Lab" (endpoint id: d8628595-1653-4486-a08a-532a2af9534f) with jtb3@po.cwru.edu.

Additional Message:

hi, me

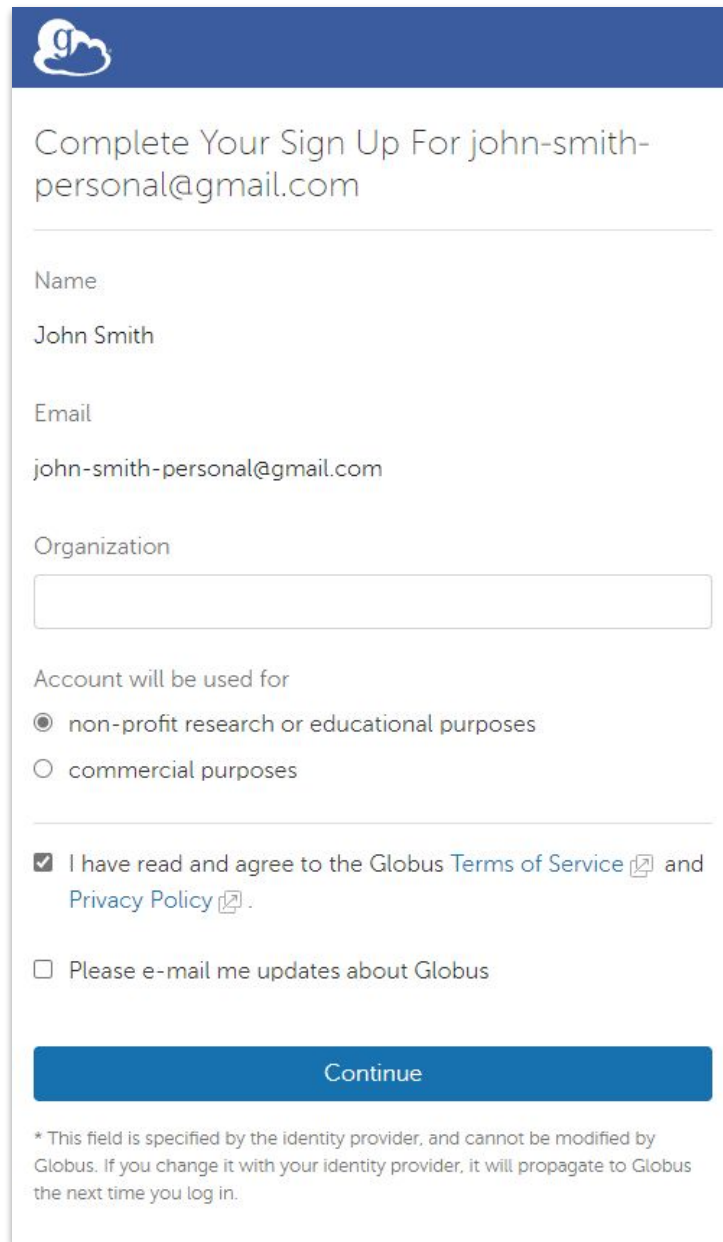
Use this URL to access the share:

https://app.globus.org/file-manager?&origin_id=d8628595-1653-4486-a08a-532a2af9534f&origin_path=/&add_identity=39276e6a-6be3-4cb8-a4af-b5994777e4eb

The Globus Team

support@globus.org

Non-NAU login with Globus



Complete Your Sign Up For john-smith-personal@gmail.com

Name
John Smith

Email
john-smith-personal@gmail.com

Organization

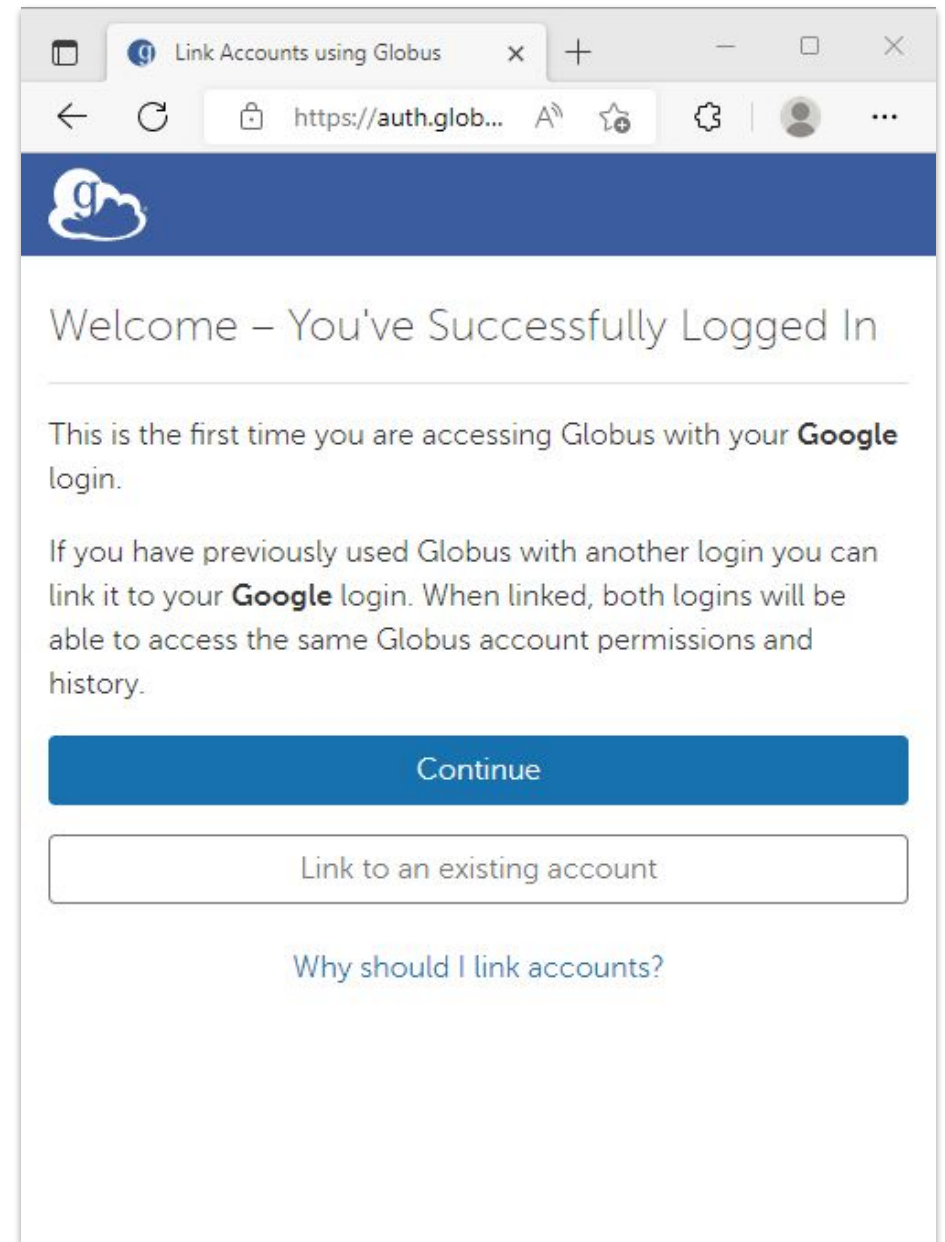
Account will be used for

- non-profit research or educational purposes
- commercial purposes

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

Please e-mail me updates about Globus

* This field is specified by the identity provider, and cannot be modified by Globus. If you change it with your identity provider, it will propagate to Globus the next time you log in.



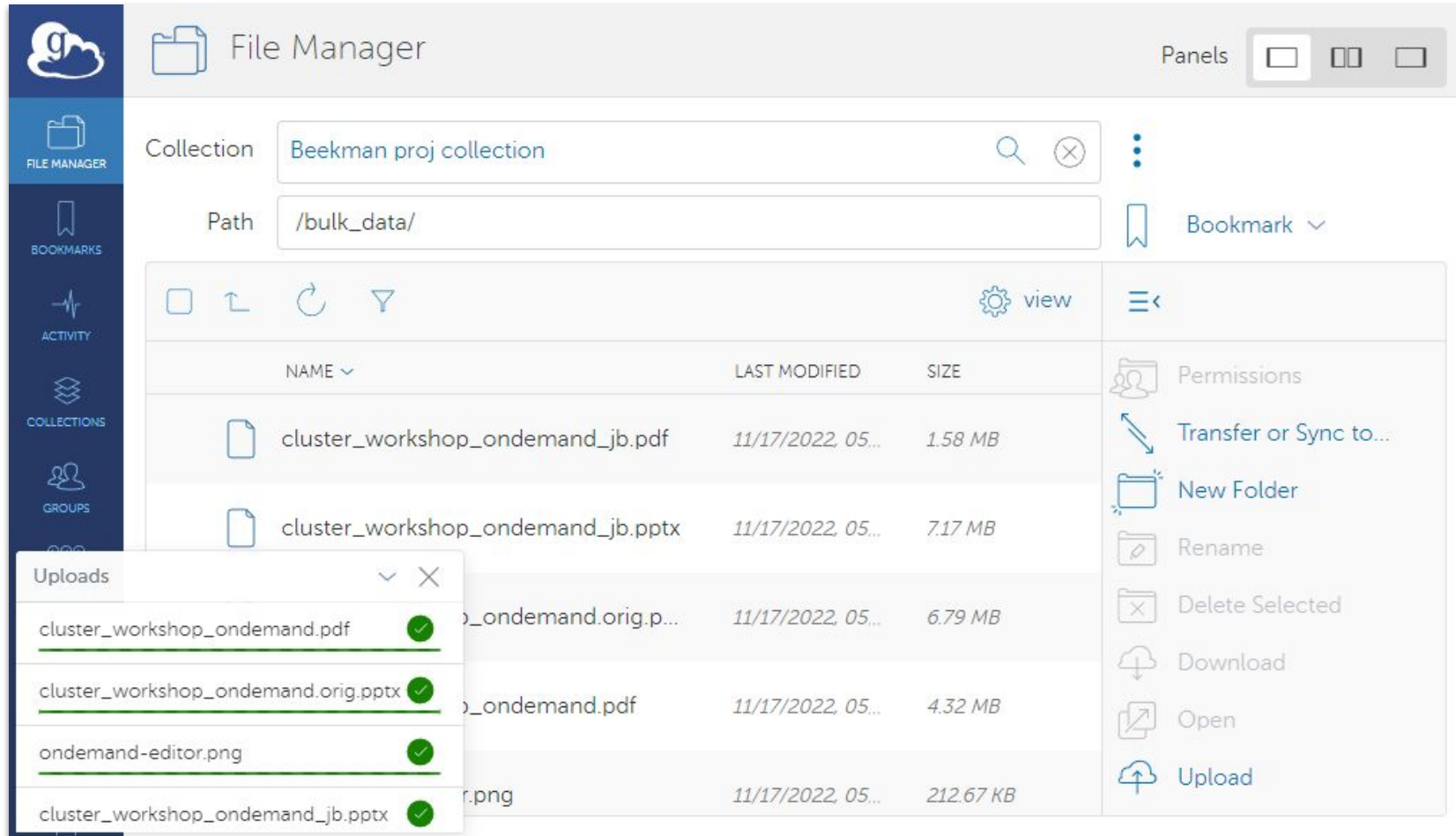
Welcome – You've Successfully Logged In

This is the first time you are accessing Globus with your **Google** login.

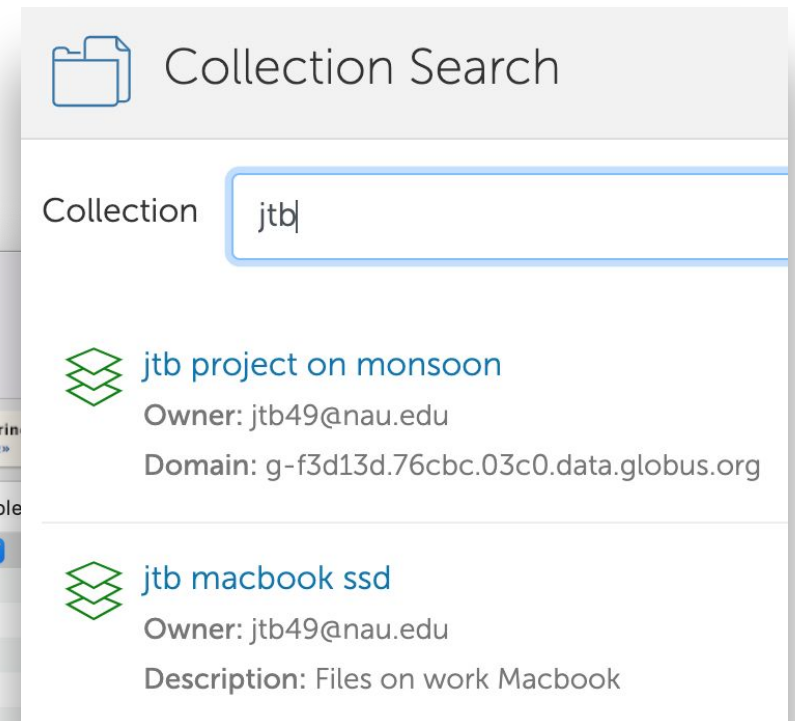
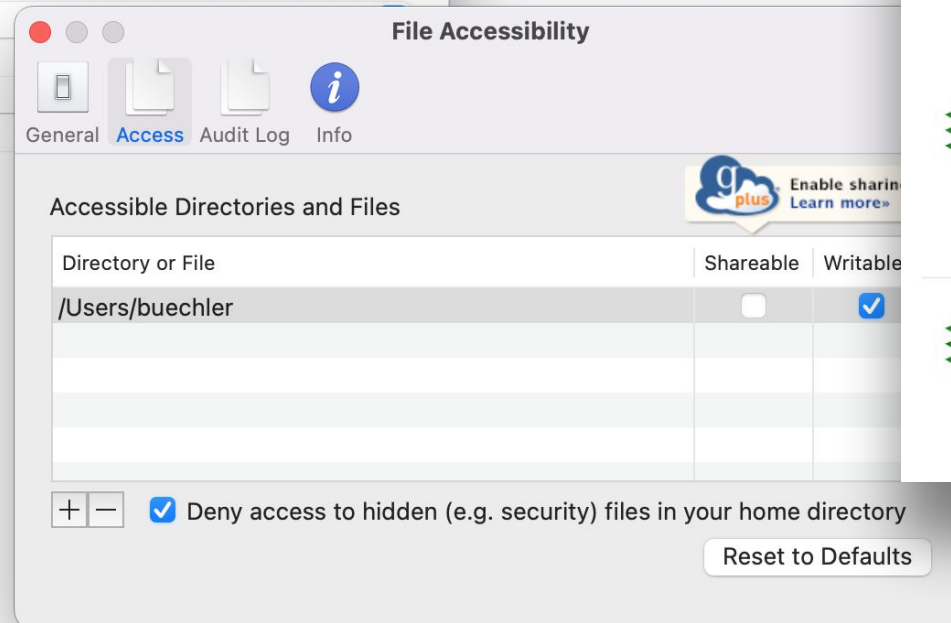
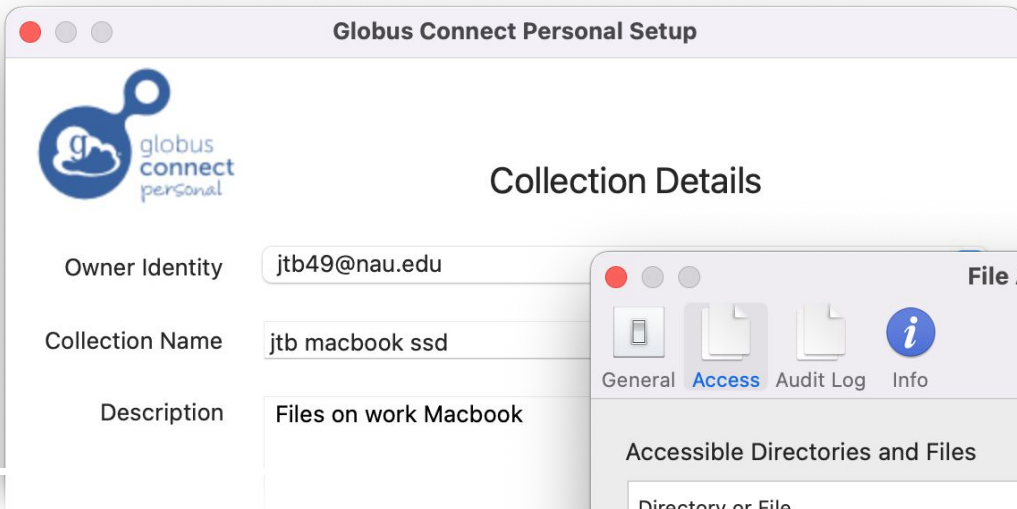
If you have previously used Globus with another login you can link it to your **Google** login. When linked, both logins will be able to access the same Globus account permissions and history.

[Why should I link accounts?](#)

POV: A collaborator uploads to Monsoon via (just) web browser



Download from: www.globus.org/globus-connect-personal



Globus CLI

```
$ module load anaconda3 && conda activate globus
```

```
(globus): $ globus endpoint search nau | grep NAU | tr -s ' '
```

```
9b7bebd2-94da-4b73-8093-78d3d03889dd | cbc@nau.edu | NAU HPC Endpoint  
aa21c1e8-ba46-4e73-879b-50c9f946a887 | cbc@nau.edu | NAU Google Drive  
4f4bbfcb-005f-40d7-97ee-9cba31b40bfc | cbc@nau.edu | NAU HPC Filesystems  
b81db7c2-e355-420d-b5ce-6e903ad24594 | cbc@nau.edu | NAU OneDrive
```

NOTE 1: in Globus CLI, use ``endpoint search``
to find both collections AND endpoints

NOTE 2: Globus web usually hides “actual”
endpoints


```
$ globus ls b81db7c2-e355-420d-b5ce-6e903ad24594
```

```
The collection you are trying to access data on requires you to grant consent for the Globus CLI to access it.
```

```
message: Missing required data_access consent
```

```
Please run
```

```
  globus session consent 'urn:globus:auth.....-6e903ad24594/data_access]'  
to login with the required scopes
```

```
$ globus session consent 'urn:globus:auth.....-6e903ad24594/data_access]'
```

```
Please authenticate with Globus here:
```

```
-----
```

```
https://auth.globus.org/v2/oauth2/authorize?cli.....ne&prompt=login
```

```
-----
```

```
Enter the resulting Authorization Code here: uPAbsSuBw1QhXjivE0PLo1430BBHeS
```

```
You have successfully updated your CLI session.
```

```
$ globus ls b81db7c2-e355-420d-b5ce-6e903ad24594
```

```
Contacts/
```

```
Desktop/
```

```
Documents/
```

```
Downloads/
```

```
Microsoft Teams Chat Files/
```

A Globus CLI transfer

```
$ globus transfer -r --encrypt b81db7c2-e355-420d-b5ce-6e903ad24594:"Microsoft  
Teams Chat Files" 4f4bbfcb-005f-40d7-97ee-9cba31b40bfc:/home/jtb49/demo/
```

The collection you are trying to access data on requires you to grant consent for the Globus CLI to access it.

message: Missing required data_access consent

Please run

```
globus session consent 'urn:globus:auth.....-6e903ad24594/data_access]'  
to login with the required scopes
```

```
$ globus session consent 'urn:globus:auth.....-6e903ad24594/data_access]'
```

Please authenticate with Globus here:

<https://auth.globus.org/v2/oauth2/authorize?cli.....ne&prompt=login>

Enter the resulting Authorization Code here: YSiSa2UXnW0euFzMxt0l8TPha9z7s9

You have successfully updated your CLI session.

```
$ globus transfer -r --encrypt b81db7c2-e355-420d-b5ce-6e903ad24594:"Microsoft  
Teams Chat Files" 4f4bbfcb-005f-40d7-97ee-9cba31b40bfc:/home/jtb49/demo/
```

Message: The transfer has been accepted and a task has been created and queued for execution

Task ID: 6c971d9a-703a-11ed-8423-8d2923bcb3ec

```
$ globus task show 6c971d9a-703a-11ed-8423-8d2923bcb3ec | grep -v Subtasks
```

```
Label:           None
Task ID:         6c971d9a-703a-11ed-8423-8d2923bcb3ec
Is Paused:      False
Type:           TRANSFER
Directories:    1
Files:          131
Status:         SUCCEEDED
Request Time:   2022-11-29T23:06:20+00:00
Faults:         0
Completion Time: 2022-11-29T23:06:58+00:00
Source Endpoint: NAU OneDrive
Source Endpoint ID: b81db7c2-e355-420d-b5ce-6e903ad24594
Destination Endpoint: NAU HPC Filesystems
Destination Endpoint ID: 4f4bbfcb-005f-40d7-97ee-9cba31b40bfc
Bytes Transferred: 296728329
Bytes Per Second: 7613995
```

```
$ globus task event-list 6c971d9a-703a-11ed-8423-8d2923bcb3ec
```

Time	Code	Is Error	Details
-----	-----	-----	-----
2022-11-29T23:06:58+00:00	SUCCEEDED	False	{"files_succeeded":131}...
2022-11-29T23:06:58+00:00	PROGRESS	False	{"bytes_transferred":29...
2022-11-29T23:06:23+00:00	STARTED	False	{"concurrency":2,"para1...

Thank You