Monsoon and Globus

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

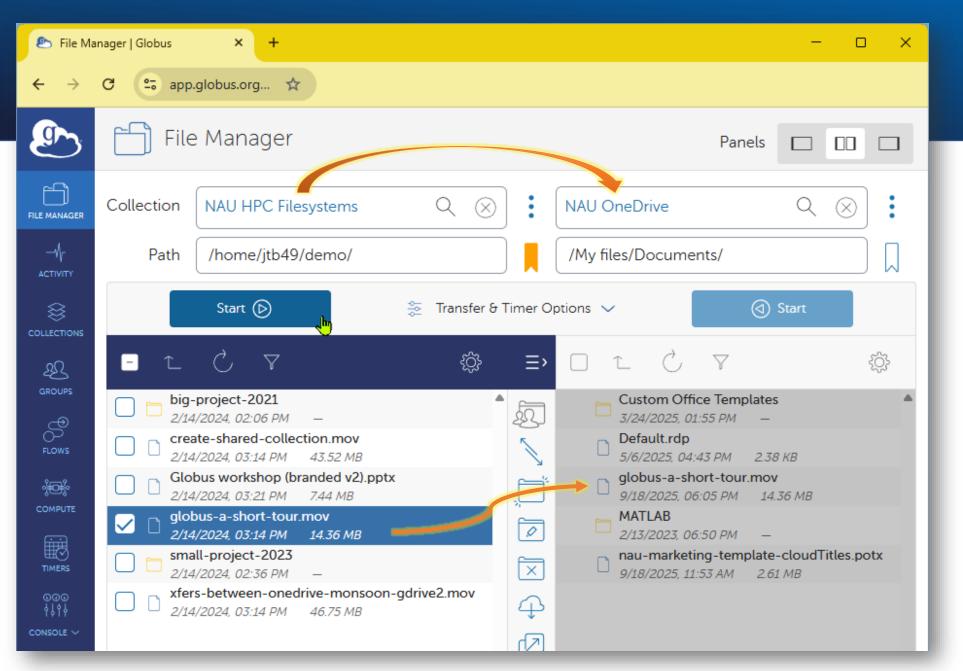


Globus' capabilities and benefits



- Huge file sizes or huge number of files? NO PROBLEM!
- Web-based interface
 - CLI tools also available, as alternative to web
- - Networked-filesystem to networked-filesystem!
 - Simple copies, or (schedulable!) sync tasks
- Also between Monsoon ↔ personal PCs, G-Drive, OneDrive...
- Secure collaboration!
 - Highly customizable, granular permissions
 - Share as read-only or full-access







Architecture of a Globus transfer



Monsoon storage ('A')

/home, /scratch, /projects ...running Globus SW





Network

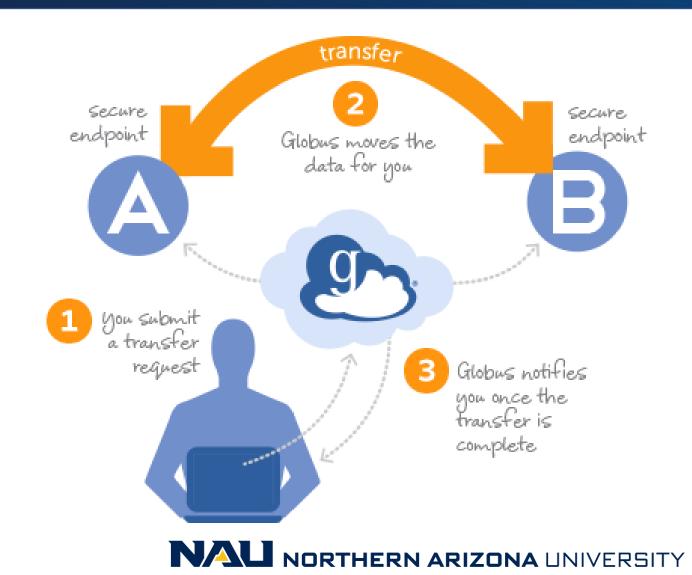




...also using Globus SW

Remote system ('B')

Your PC, OneDrive, other HPC,...



Globus use-cases



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

Quickly orchestrate file transfers: only a web browser is needed in most cases, no matter how large the dataset.

Globus is great for remote collaborators, and great for your everyday use too: move data to/from your OneDrive or PC.

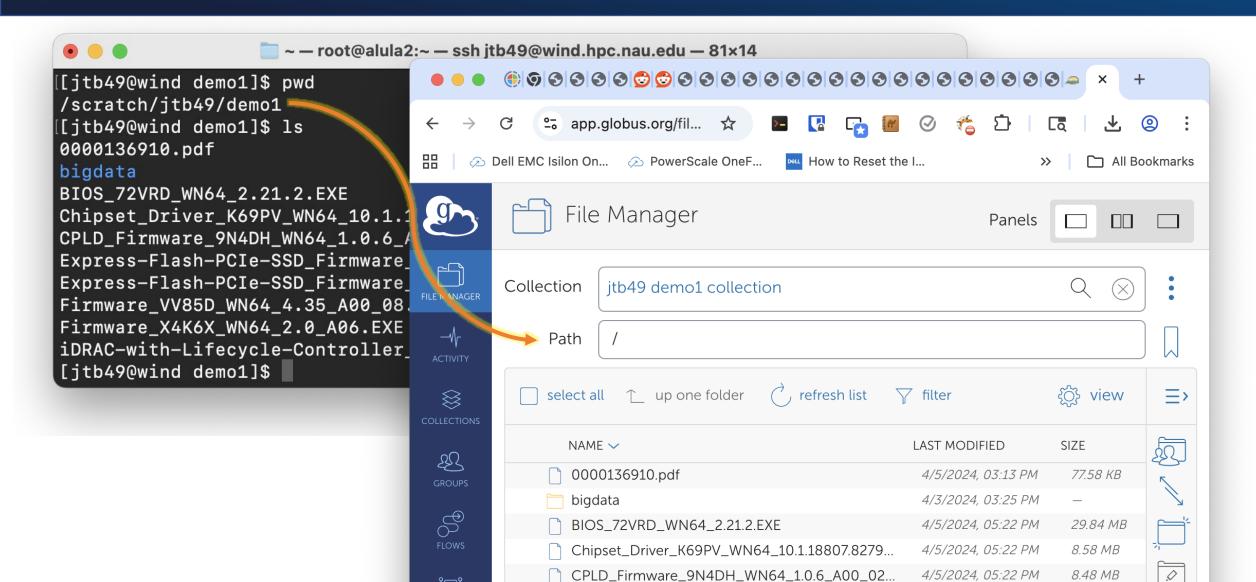
- - NAU-affiliated, or not
 - Different /projects groups
- ★ Your monsoon files

 ★ Your monsoon f
- ▼ Time consuming & complex xfers
- ★ CLI tools and APIs



Share (only) what you want





Transfer options (1/2)



sync - only transfer new or changed Selecting this option gives the ability to choose how files will be overwritten on the destination file system. where checksum is different the 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 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 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/fag/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.



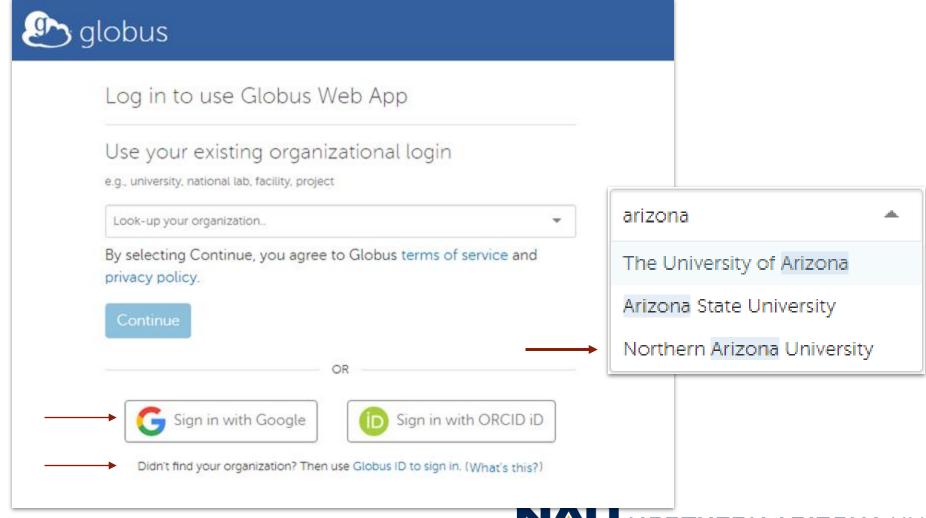
Transfer options (2/2)



| ☐ Fail on quota errors (i) | | | | | | | |
|---|--|--|--|--|--|--|--|
| If the storage quota is exceeded during the transfer, the transfer will fail rather than retry. | | | | | | | |
| ☐ Disable success notification (i) | | | | | | | |
| An email will not be sent when this transfer succeeds. | | | | | | | |
| ☐ Disable failure notification (i) | | | | | | | |
| An email will not be sent when this transfer fails. | | | | | | | |
| ☐ Disable inactive notification (i) | | | | | | | |
| An email will not be sent when this transfer becomes inactive. | | | | | | | |
| | | | | | | | |
| Schedule Start | | | | | | | |
| Schedule Start mm/dd/yyyy: | | | | | | | |
| | | | | | | | |
| mm/dd/yyyy: | | | | | | | |
| mm/dd/yyyy: | | | | | | | |
| mm/dd/yyyy: Repeat does not repeat does not repeat days | | | | | | | |
| mm/dd/yyyy: © Repeat does not repeat does not repeat | | | | | | | |

Globus sign-in options





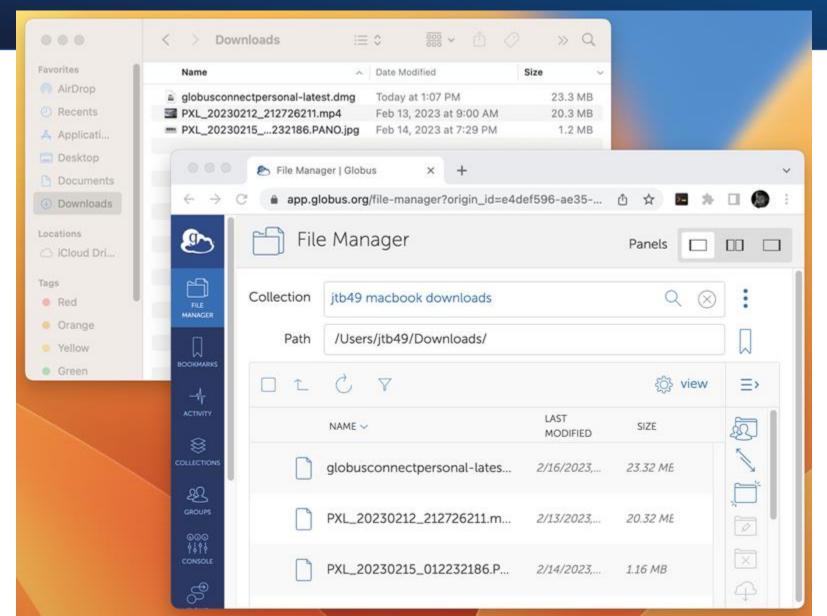
Browser-only (minimal) transfers



| | File Manager | | | | | Pane | els 🔲 🔲 🗆 | |
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Easy PC transfers: Globus Personal





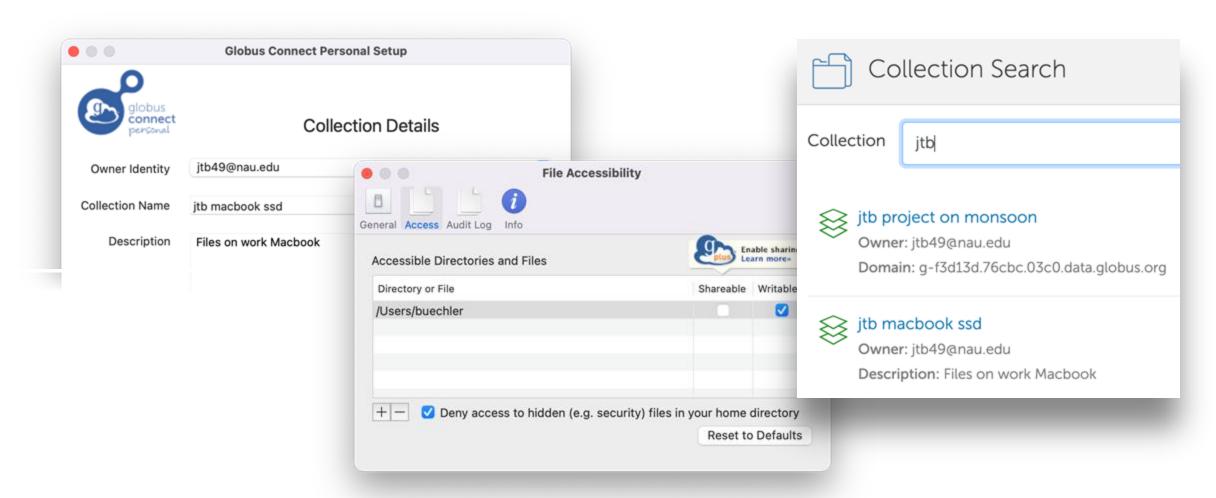
Demo





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





Thank You

Full globus workshop/slides: https://in.nau.edu/arc/workshops/

Globus' security FAQ: https://docs.globus.org/faq/security/

