HMS Research Computing
Data Transfers with Globus

OVERVIEW

Information Technology Research Computing
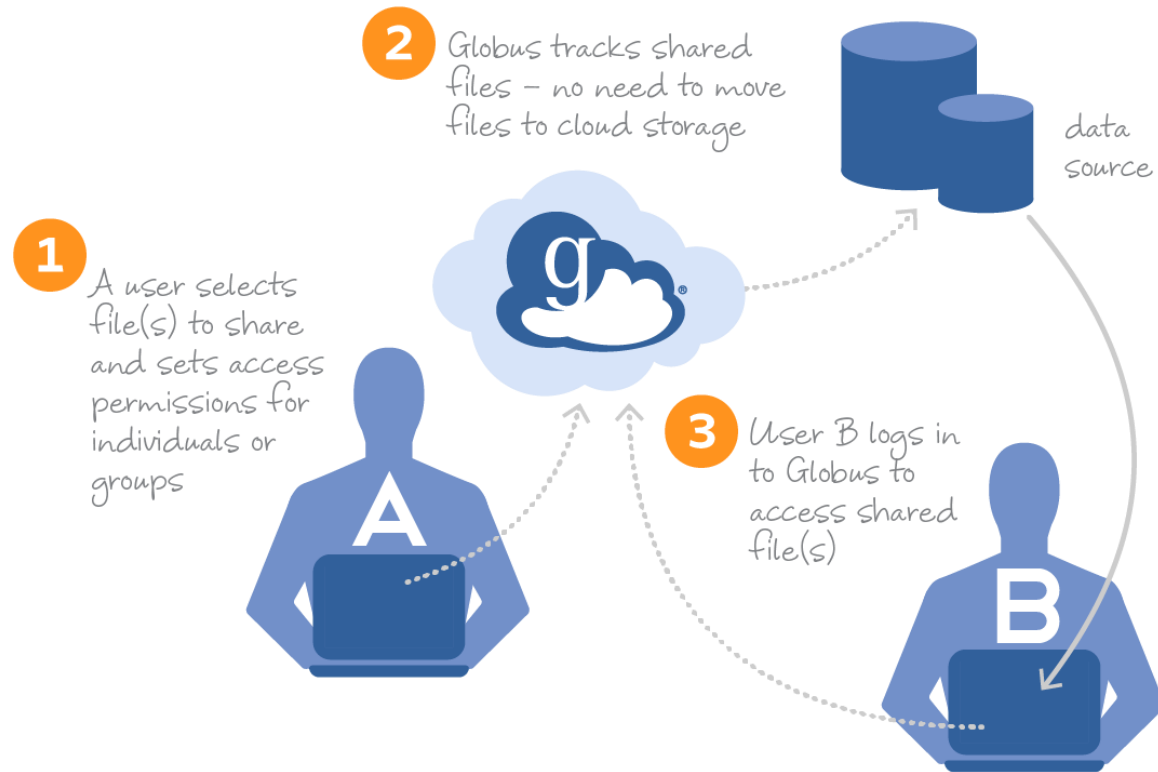Harvard Medical School
4/26/2023

Agenda

- What is Globus

- Globus Workflow

- Globus Features

- HMS Globus O2 Integration

- Globus Use Cases

- HMS Globus Usage

- How to Get access

- Demo

- Questions

What is Globus

- Globus is a secure, unified interface to your research data.
  - The platform provides you the ability to transfer and share your data with your collaborators.
- HMS Research Computing has partnered with the Harvard FAS Research Computing team.
- The platform was developed at the University of Chicago and is widely used at universities and organizations.
- https://www.globus.org/

Globus Workflow

2 Globus tracks shared files – no need to move files to cloud storage

data source

1 A user selects file(s) to share and sets access permissions for individuals or groups

A

3 User B logs in to Globus to access shared file(s)

B

Globus Features

- Based on GridFTP, optimized for large file transfer

- Accommodates scheduled transfers

- Integrated with HMS storage

- "Fire and Forget"
  - You don't need to be remain connected for transfers to complete (server only feature)
  - Transfers retry if the connection drops

- Web Console that provides transfer monitoring and sharing status

- Globus CLI for command line automating file transfers

- Globus Desktop Client that supports Linux, Mac OS, and Windows

- Bidirectional transfers to and from O2 accessible storage and folders

Globus Features – NEW FOR V5 (Coming Early May 2023)

- Enhanced authentication methods

- S3 Connector

- HTTPS access to files

HMS Globus O2 Integration

- HMS Globus is Integrated with O2 Transfer Nodes

- Storage is mounted to Transfer Nodes

- Locations currently integrated with HMS storage

  ◦ Active collaborations
  ◦ Scratch
  ◦ Standby

Globus Use Cases

Transfer and Receive Files with external collaborators who have access to Globus.org platform

Data transfer from local workstations to O2 Storage

Desktop to Desktop Sharing and Transfers

Internal Data movement

Sharing of publication data

How to Get Access

- Current O2 users have access via the Globus Web Console.

- Sign up for service at globus.org

- Documentation available: "Getting started with HMS Globus for O2 users" in STAT

  ◦ KB0012217 - https://harvardmed.service-now.com/kb_view.do?sysparm_article=KB0012217

Demo

Questions?

Thank you for your time and attention today!

Please contact us at rchelp@hms.harvard.edu for more information…