

HMS Research Computing

Data Transfers with Globus

OVERVIEW

Information Technology Research Computing
Harvard Medical School
4/27/2022



HARVARD
MEDICAL SCHOOL

Information Technology 1

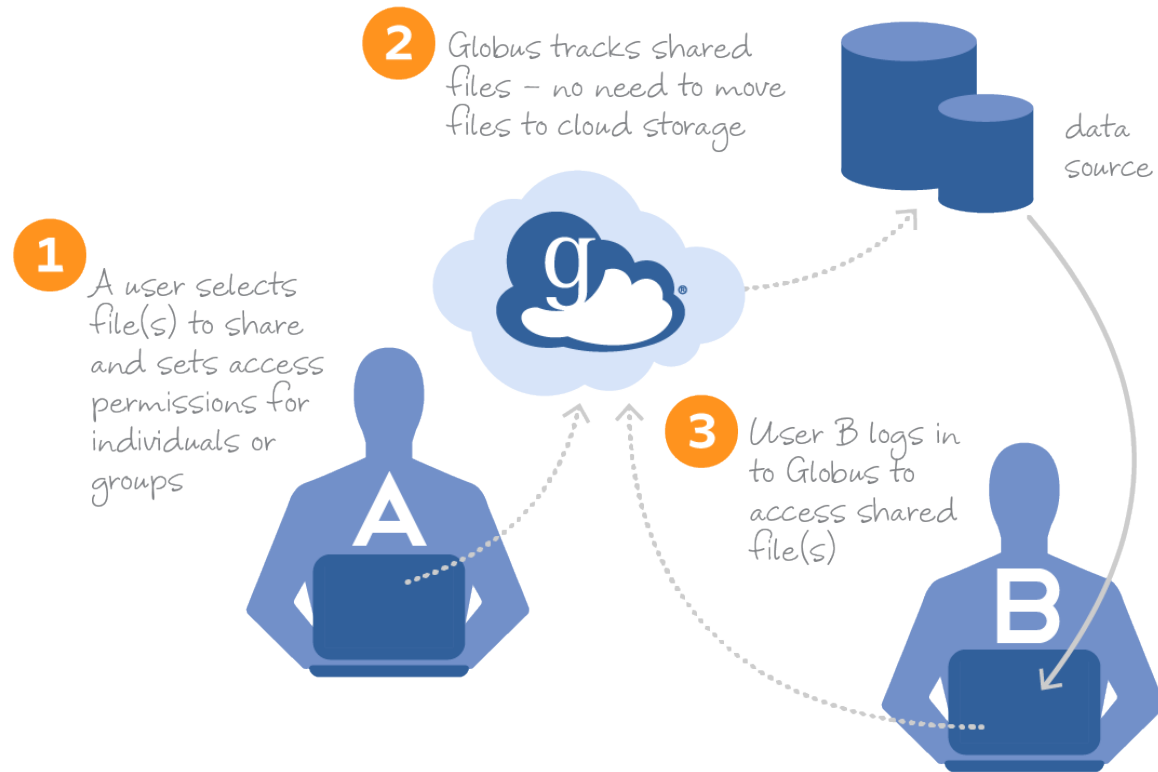
Agenda

- 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



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

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



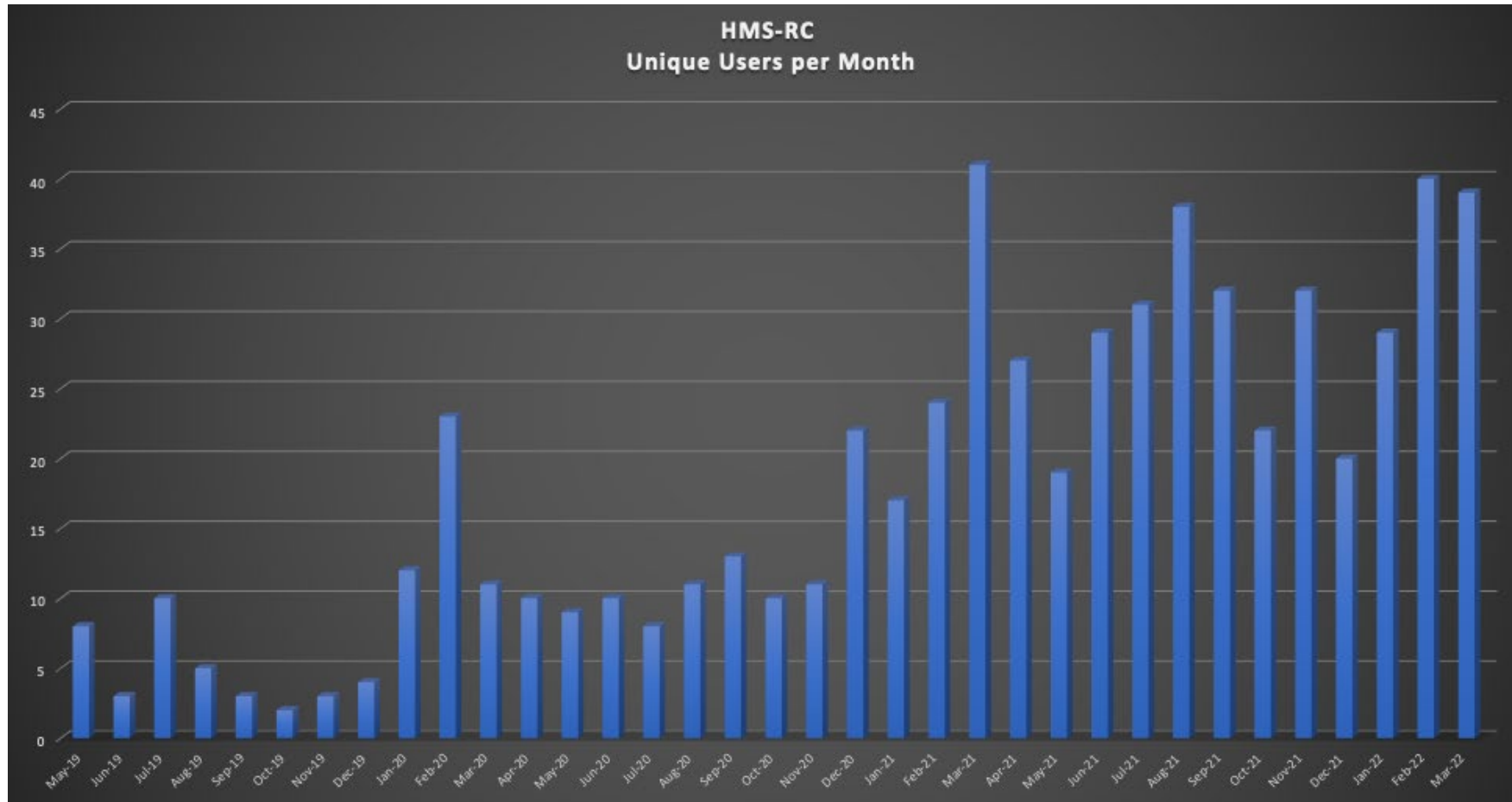
Internal Data movement



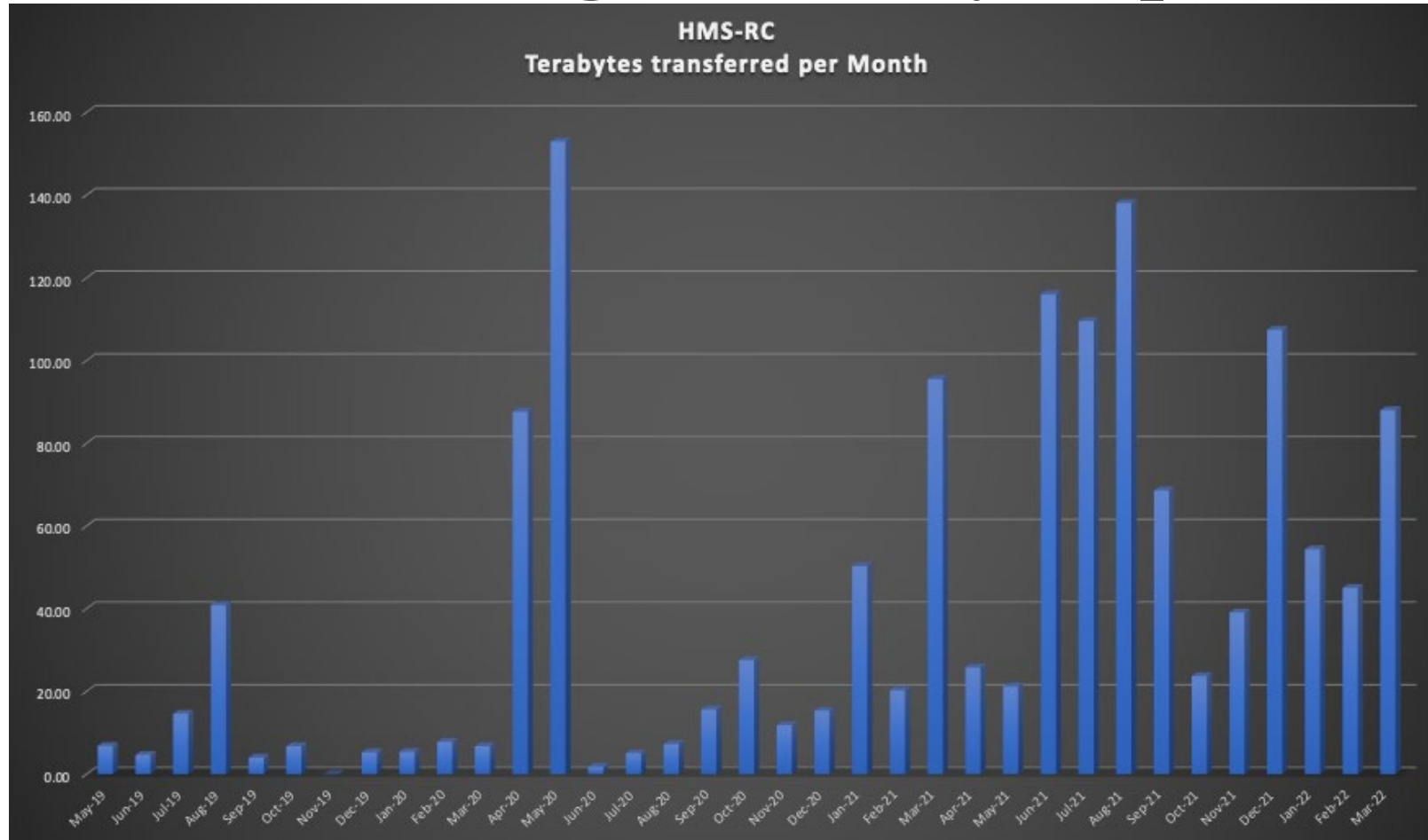
Sharing of publication data



HMS Globus Usage – Users per Month



HMS Globus Usage – Terabytes per Month



How to Get Access

- Current O2 users have access via the Globus Web Console.
- Sign up for service at globus.org



Demo



Questions?



Thank you for your time and attention today!

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

