

Globus.org SaaS – A brief overview

Matthias Hofmann

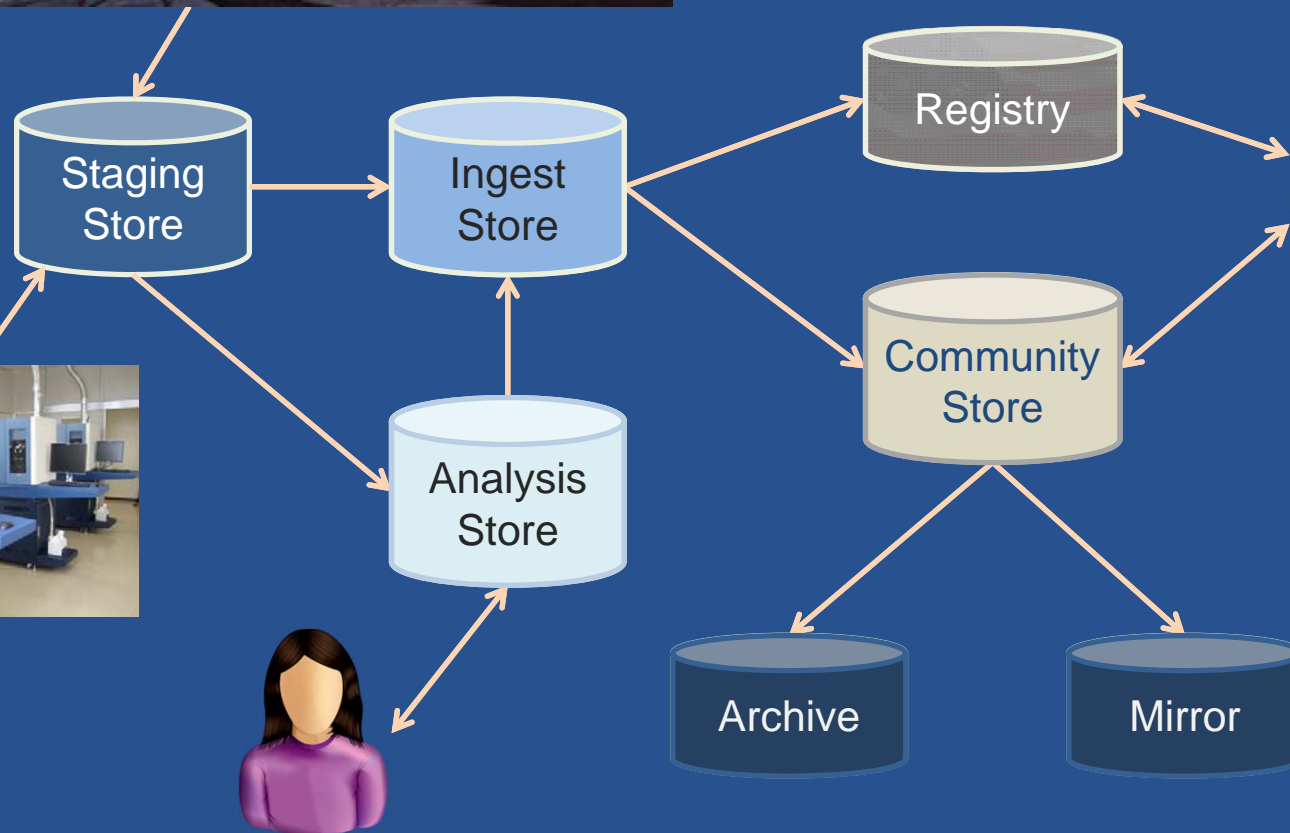
Slides used from Steve Tuecke,
Ian Foster, Vas Vasiliadis



globus

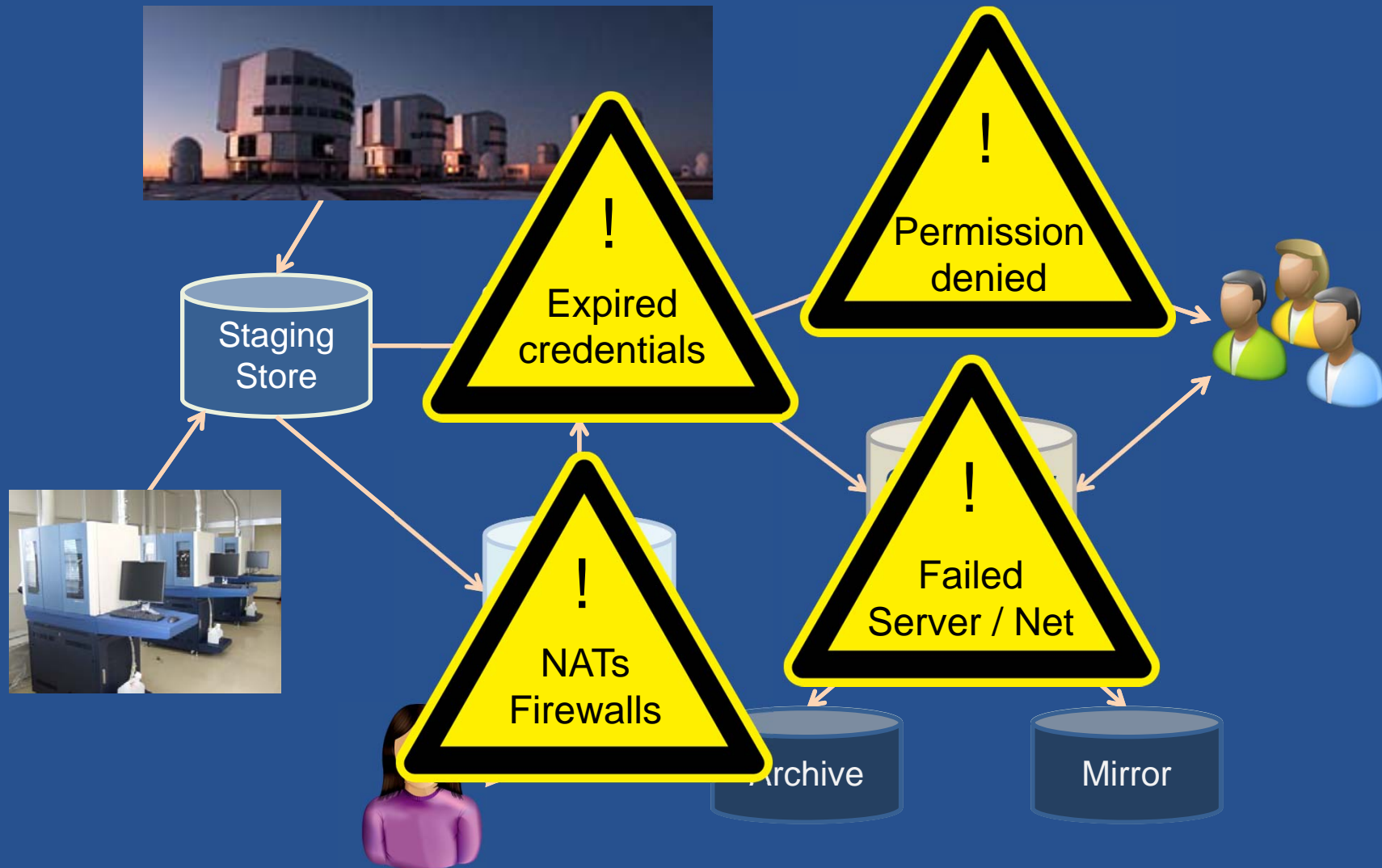


Managing data should be easy ...





... but it's hard and frustrating!





What is Globus?

Big data transfer
and sharing...

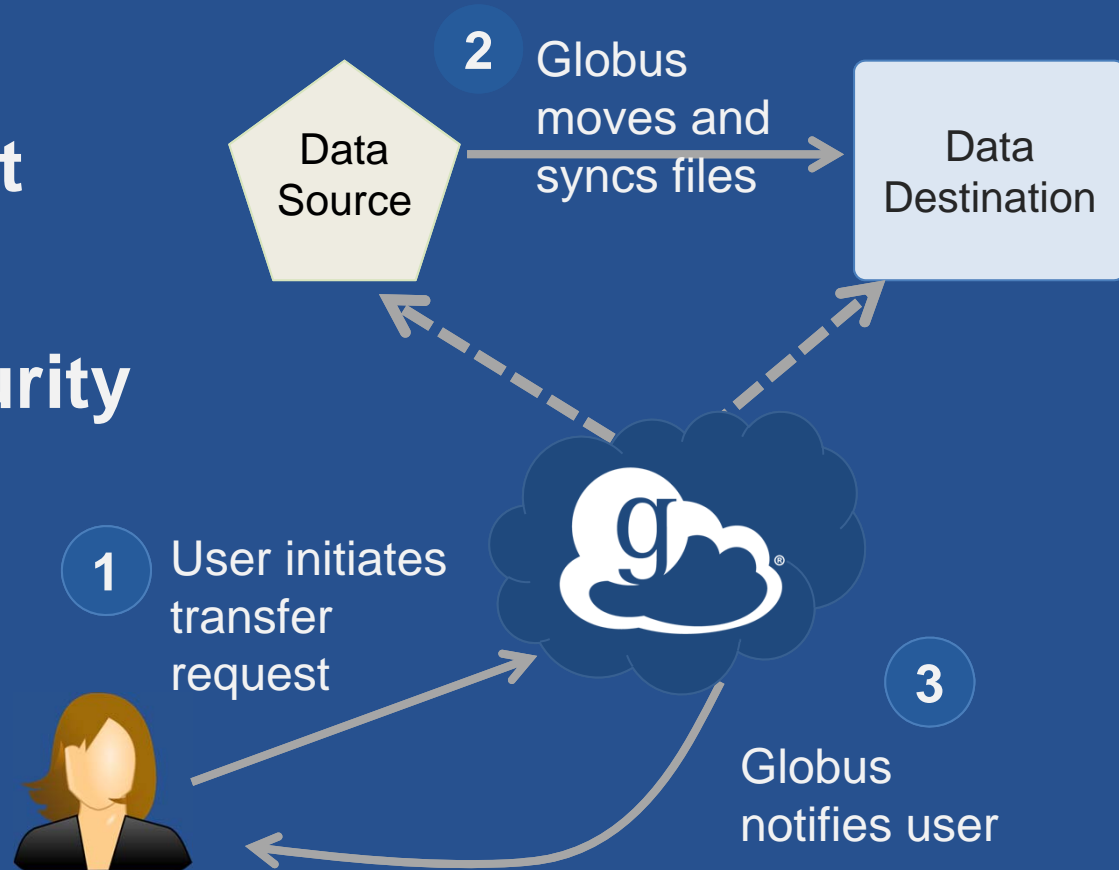
...with Dropbox-like
simplicity...

...directly from your own
storage systems



Reliable, secure, high-performance *file transfer* and *synchronization*

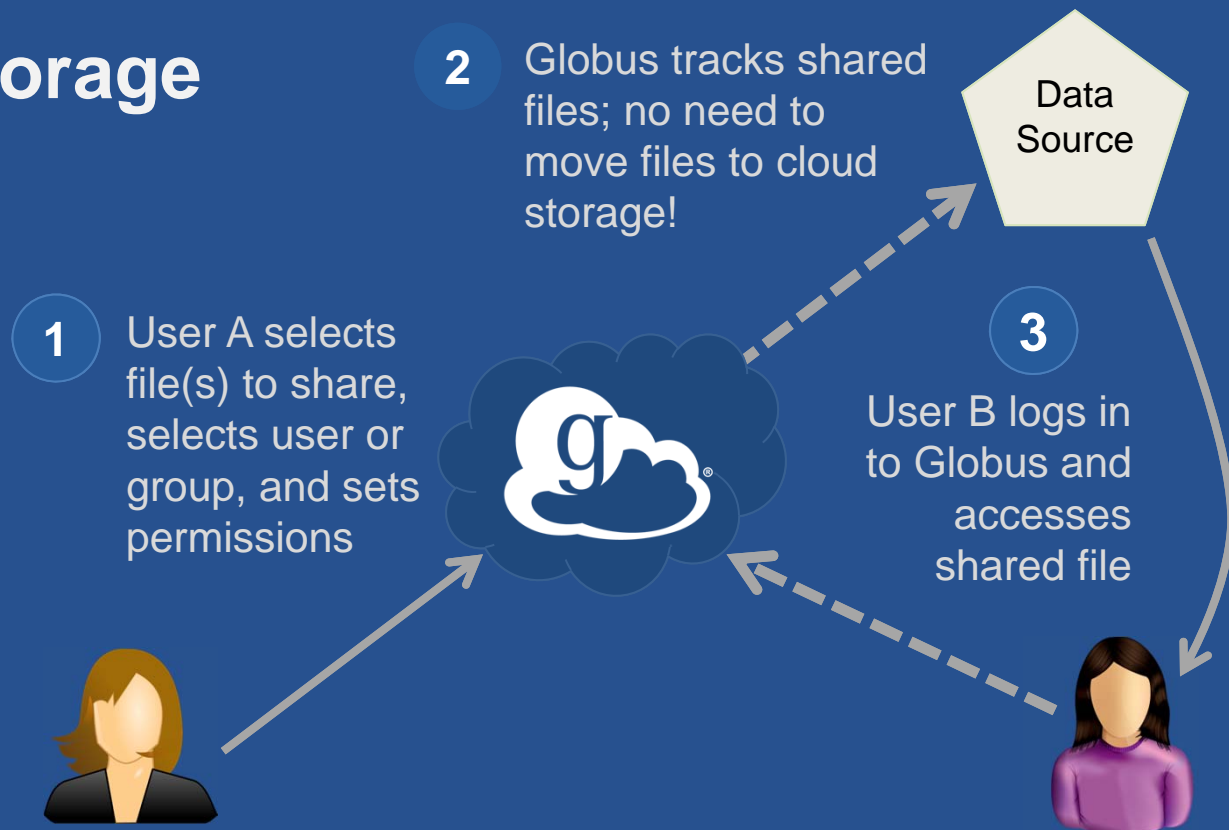
- “Fire-and-forget” transfers
- Automatic fault recovery
- Seamless security integration





Simple, secure *sharing* off existing storage systems

- Easily share large data with any user or group
- No cloud storage required





Globus is SaaS

- **Web, command line, and REST interfaces**
- **Reduced IT operational costs**
- **New features automatically available**
- **Consolidated support & troubleshooting**
- **Easy to add your laptop, server, cluster, supercomputer, etc. with Globus Connect**
- **Applications and Data Publication**



Account Signup

1. Go to: globusonline.eu/signup
2. Create your Globus account
3. Validate e-mail address



Transfer, Sharing, Group Management

1. Install Globus Connect Personal
2. Move file(s) from the supercomputer to your laptop
3. Sign up for a free Globus Plus trial (1 month)
4. Create a shared endpoint on your laptop
5. Grant your neighbor permissions on your shared endpoint
6. Access your neighbor's shared endpoint
7. Optional: Create group, and grant share access



What Is Globus Genomics?

- Flexible, powerful SaaS-based genomics analysis platform
- Workflows can be easily defined and automated with integrated Galaxy capabilities
- Data movement is streamlined with integrated Globus file-transfer functionality
- Resources can be provisioned on-demand with Amazon Web Services cloud based infrastructure





Upcoming...
Globus
data
publication
services





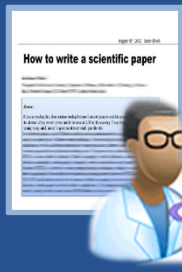
Exemplar Use Case



5. Search



6. Download

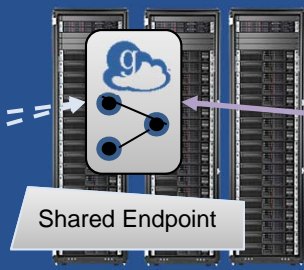


Scientist

1. Publish Data

2. Describe Submission

3. Assemble Dataset (Transfer Data)



Argonne Storage System

4. Curate Dataset
✓ ✗



Argonne Curator