CYVERSE®

The Open Science Workspace for Collaborative Data-driven Discovery

Practical Help to Manage Your Data Store

Jason Williams

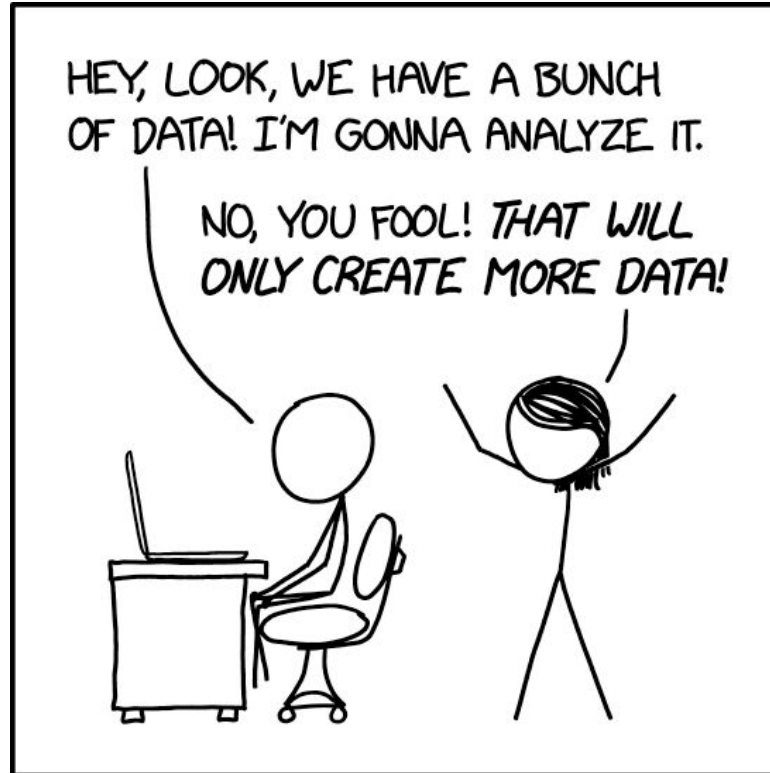Cold Spring Harbor Laboratory, DNA Learning Center / CyVerse

@JasonWilliamsNY
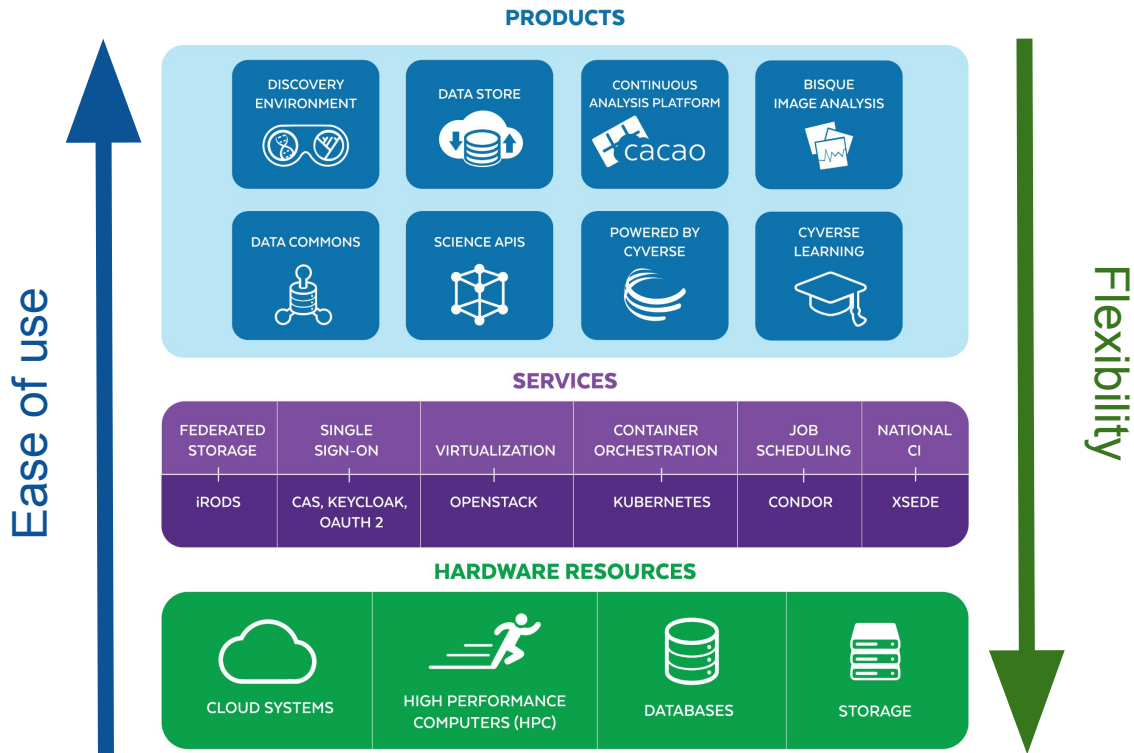
The cause of and solution to all our problems...
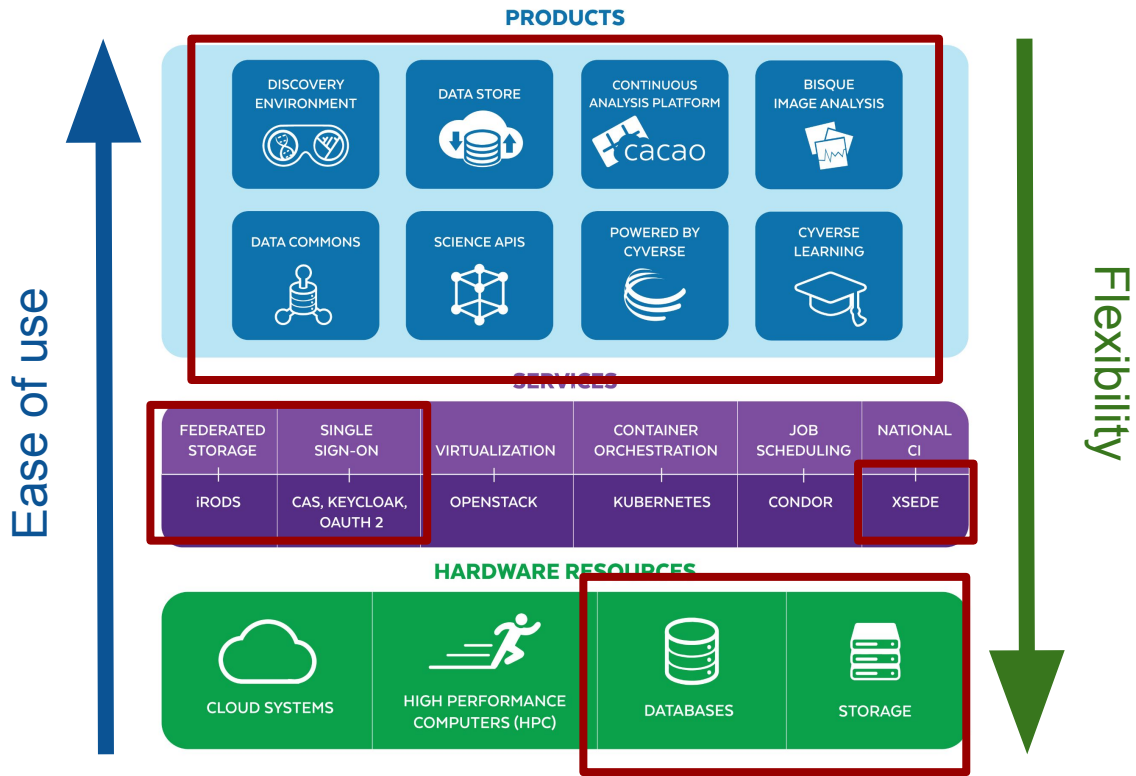
Big data, bigger problems

- Difficult / slow transfers

- Expense for storage / backup

- Difficult to share and publish

- Analysis

- Metadata (What Is metadata?)

CyVerse Technology Stack

CyVerse Technology Stack

Data Store

A secure data storage and management service accessible from anywhere in the CyVerse ecosystem

- Securely manage your data across its entire lifecycle

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- Numerous ways to upload/download/share

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A secure data storage and management service accessible from anywhere in the CyVerse ecosystem

- Securely manage your data across its entire lifecycle
- Automatic backup
- Numerous ways to upload/download/share
- Based on open source IRODS technology

Data Storage Tiers

	Basic (free)	Regular	Pro	Commercial
Data storage limit	5GB	50GB	3TB	5TB

cyverse.org/subscribe

Data Storage FAQs

Q: How do I know how much data I am using?

Data Storage FAQs

Q: How do know how much data I am using?

A: Login to the Discovery Environment Dashboard

Resource Usage

Your current subscription tier is Commercial.

Effective Period: 2023-01-10 17:12:18 - 2024-01-10 17:12:18

Data Storage
Using 91.94% as of 2023-03-16 15:28:33

4.6 TiB of 5.0 TiB used

1.3 TiB   2.5 TiB   3.8 TiB   5.0 TiB (Limit)
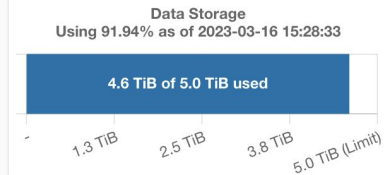
Data Storage FAQs

Q: What happens if I hit my storage limit?

Data Storage FAQs

Q: What happens if I hit my storage limit?

A: You won't be able to add new data

Data Storage FAQs

Q: What happens if I hit my storage limit?

Options:

1. **Delete some data**
2. **Upgrade your data tier**

Data Storage FAQs

Q: How can I tell how much data is in a folder?

A: See Cyberduck

Cyberduck
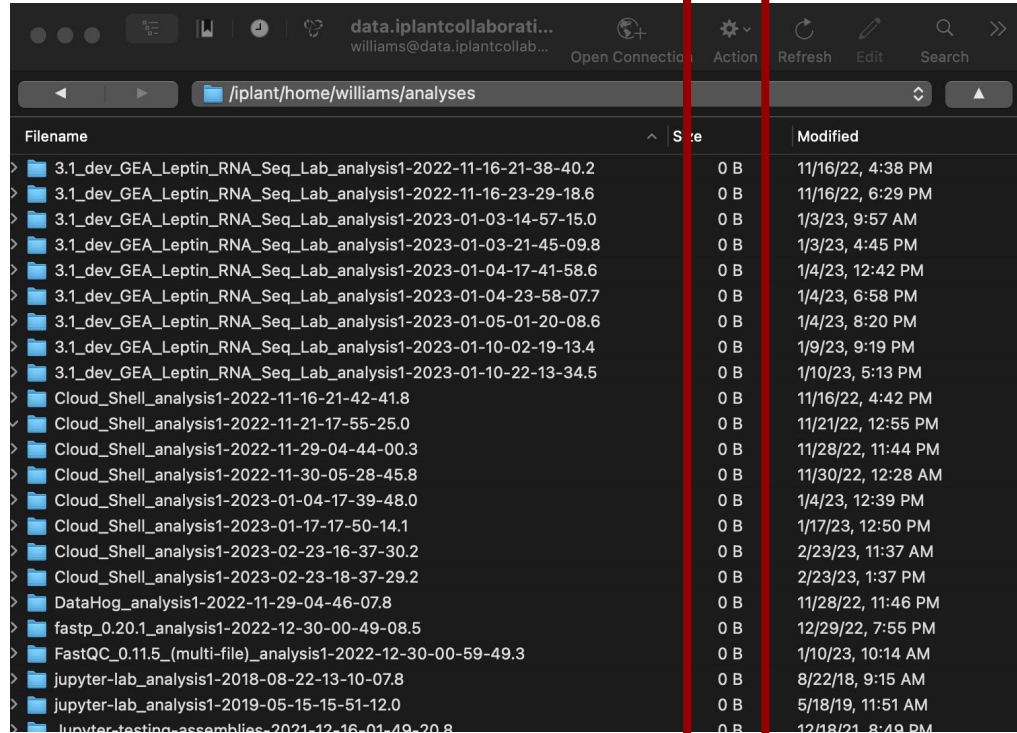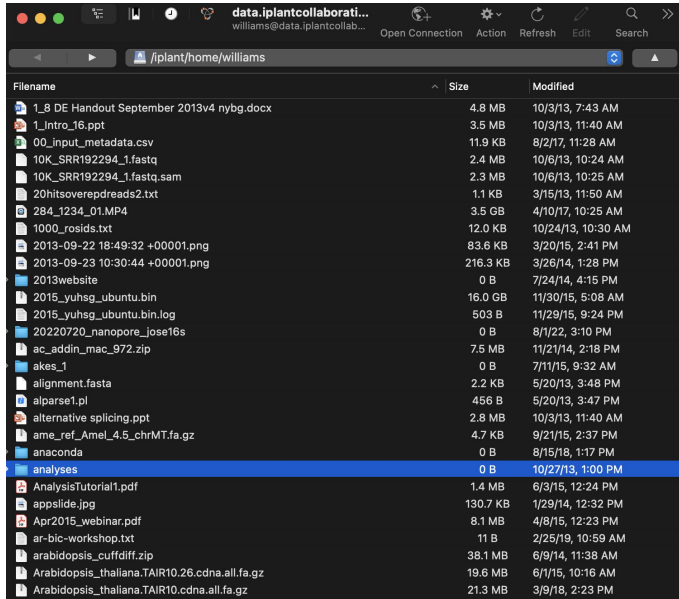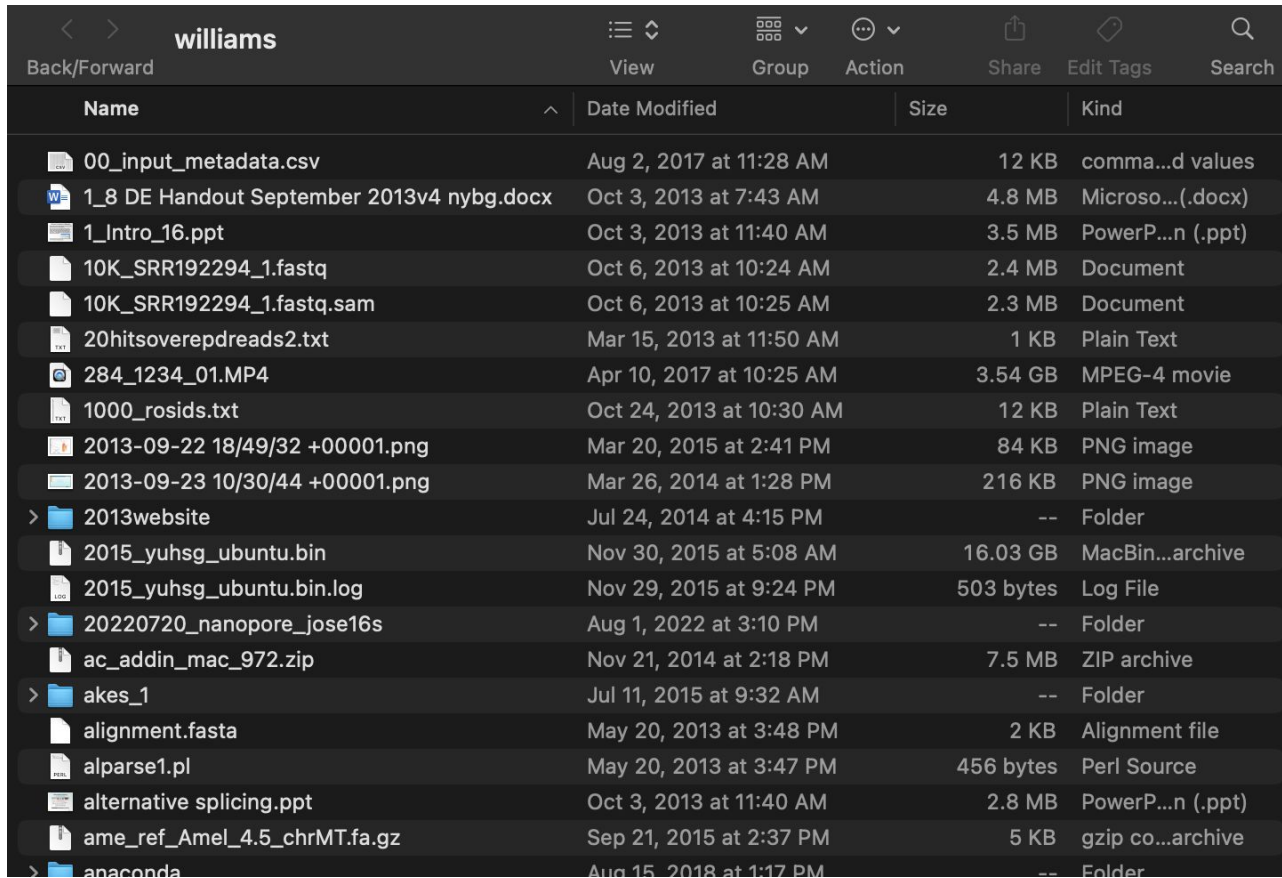
Data Storage FAQs

Q: How can I tell how much data is in a folder?

A: See WebDAV

WebDAV

Data Storage FAQs

Q: How can I tell how much data is in a folder?

A: See iCommands

```
(base) etacarinaeimac:profile williams$ ils -L /iplant/home/williams/284_1234_01.MP4|head -n1
  williams              0 CyVerseRes;ds14Broker;ds14   3540205382 2017-04-10.10:25 & 284_1234_01.MP4
```

Data Storage FAQs

Q: How can I tell how much data is in a folder?

A: See DataHog

Data Hog

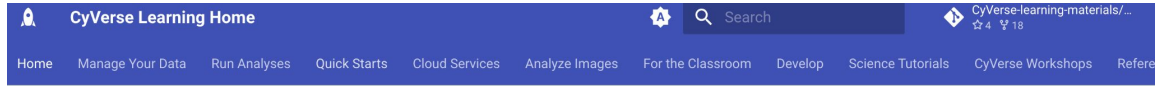# Data Storage FAQs
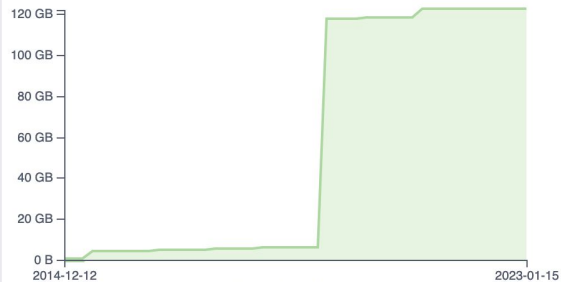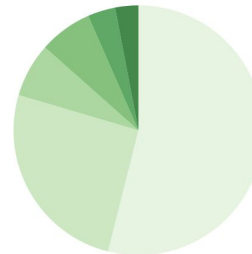
Q: How can I delete data?

Data Storage FAQs

Q: How can I delete data?

A: Your choice…

1. **Discovery Environment**
2. **iCommands, WebDav, Cyberduck**

Important resources

learning.cyverse.org

Important resources

Data Store manual

support@cyverse.org

Thank you!

Start Using the Discovery Environment Now!
de.cyverse.org

DATA & ANALYSIS
- 5 GB free data storage
- 100s open-source scientific apps
- Containers and notebooks
- Visualize & interact with data

YOUR WORKSPACE
- Manage and share data
- Perform analysis with your own or community datasets
- Do large-scale science from your web browser
- Build and customize apps

COLLABORATION
- Secure, shared workspace for your team
- Reproducibility tools
- Manage the data lifecycle
- Make data more FAIR
- Open your science

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