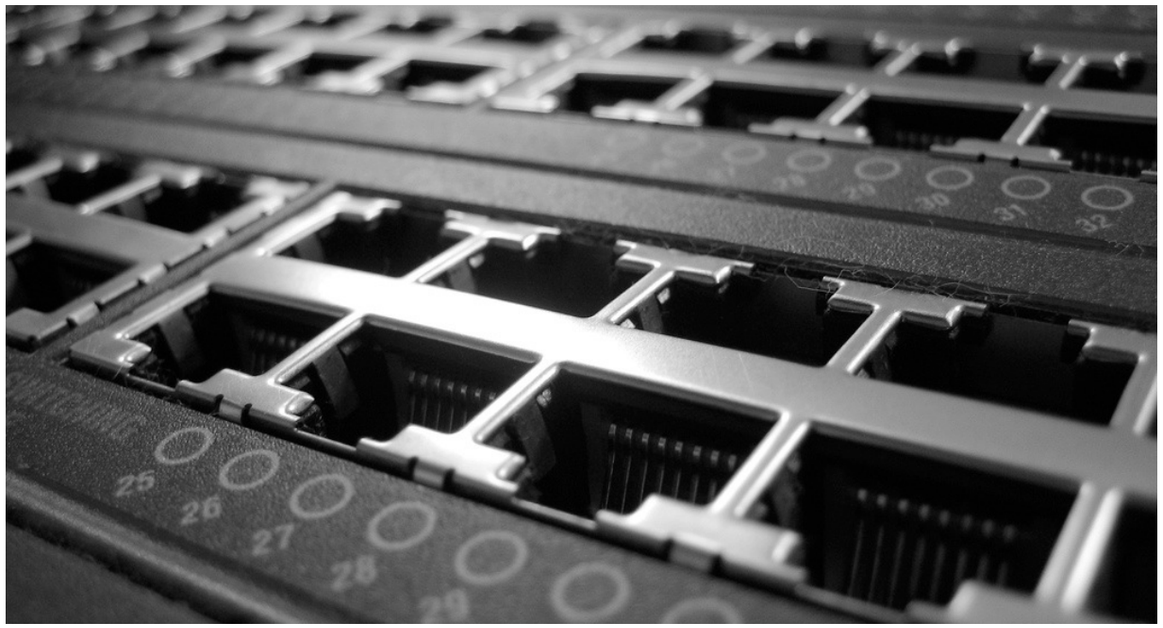


Introduction to the command-line interface

(shell)

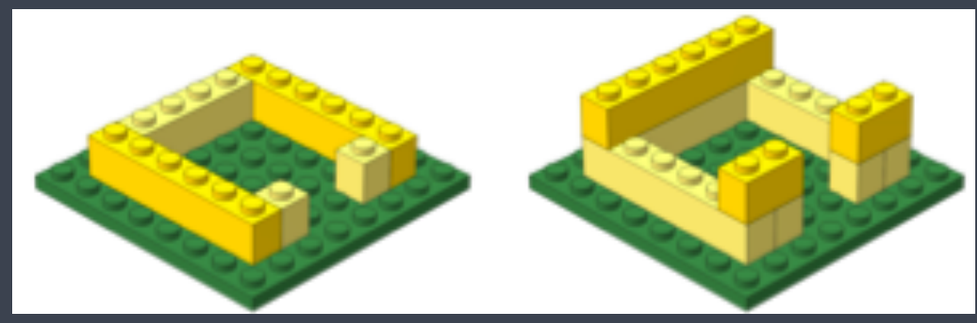
Harvard Chan Bioinformatics Core

in collaboration with

HMS Research Computing

https://tinyurl.com/hbc-shell-online

Learning Objectives



- ✓ Learn what a “shell” is and become comfortable with the command-line interface
  - Find your way around a filesystem using written commands
  - Work with small and large data files
  - Become more efficient when performing repetitive tasks
- ✓ Understand what a computational cluster is and why we need it

Exit survey

https://tinyurl.com/hbc-shell-exit

Get an O2 account!

Home > Service Catalog

Search IT services and kn

O2 Cluster Account

Description

What does it do?

Get an account on O2, the HMS High Performance Compute cluster

Available To

Who is eligible?

Any HMS or HMS-affiliated researcher who has an HMS eCommons account.

Cost

What does it cost?

There is no cost to labs whose PI has a primary or secondary faculty appointment in an HMS Quad department.

If the PI of your lab does not have a primary or secondary faculty appointment in an HMS Quad department, cluster usage will be charged for beginning later in 2021. Please see the following page for current details about rates: https://it.hms.harvard.edu/rc/core/rates.

Support

Please fill out the online help request form, or email rchelp@hms.harvard.edu.

How to Access

How do I get it?

Two-factor authentication is required to request an account on O2, as well as for O2 logins once your account is created. Harvard University uses a mobile app called Duo that makes the process quick and easy. Even if you already use Duo for HarvardKey, you will still need to setup a Duo profile for HMS.

- Setup HMS two-factor Authentication (HMS Duo Mobile)
- Reactivate or Reconnect HMS two-factor Authentication (HMS Duo Mobile)

Once you have Duo set up, Click the "Get Service" link to login and complete the request form.

Get this service | Learn more

Don't see what you're looking for?

Data Management

- HMS Data management -

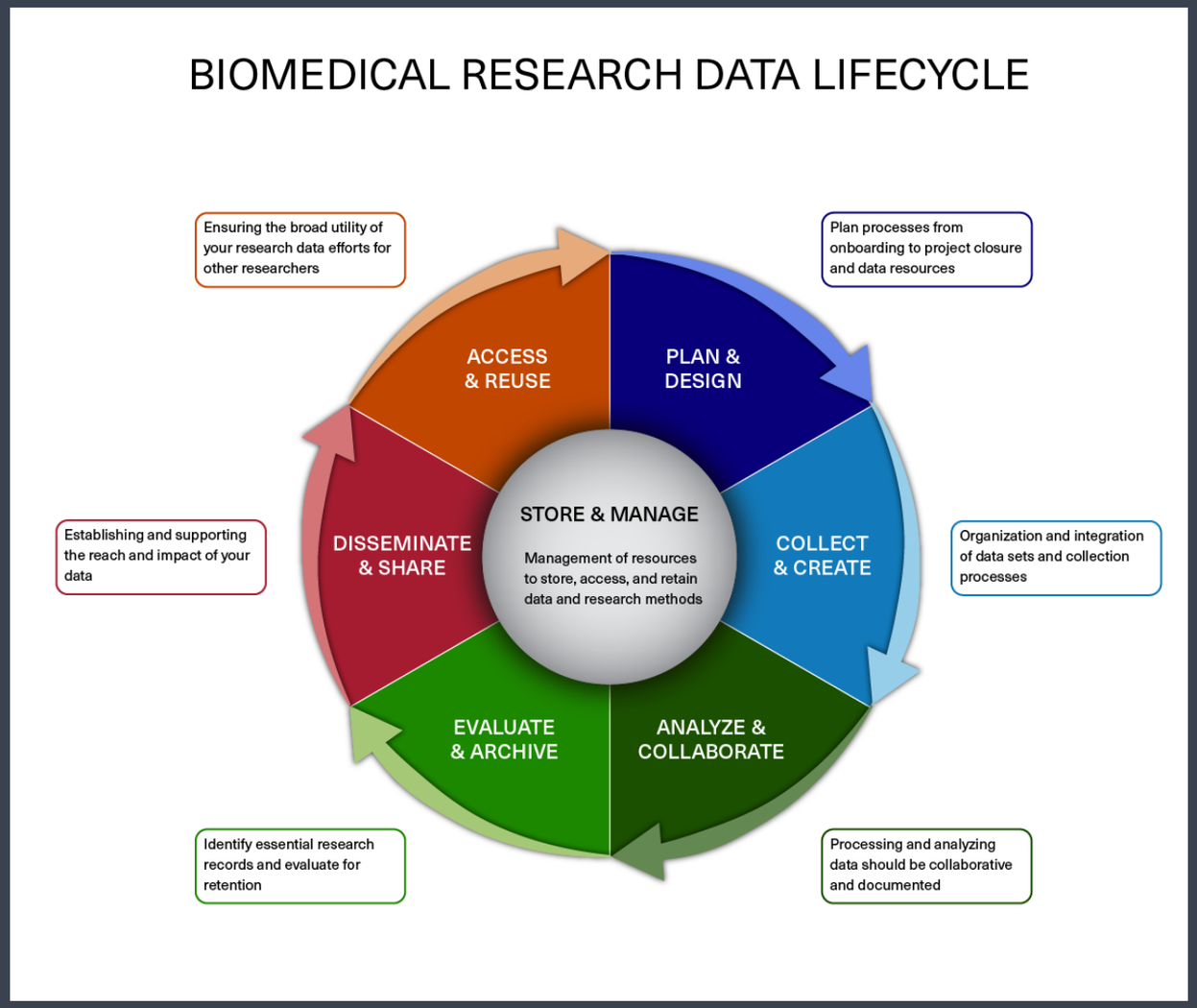
  Webpage: https://datamanagement.hms.harvard.edu/

  Click here to sign up for data management related emails

- Harvard-wide Research Data Management -

  https://researchdatamanagement.harvard.edu/

Data Management Short Workshops



https://datamanagement.hms.harvard.edu/about/news-events/rdmwg-calendar

Data Management Short Workshops

Spring 2024 Data Lifecycle Training

Plan & Design

April 17
Writing a Data Management and Sharing Plan for Grant Applications

April 24
Principles of Data Stewardship

May 1
Don't Leave Yet! Research Data Offboarding Done Right

May 8
Don't Leave Yet! Research Data Offboarding Done Right

Collect & Analyze

February 21
Basic Shell

March 6
Using Metadata to Find, Interpret & Share Your Data

March 13
Intro to MATLAB

March 13
Introduction to GIS

April 17
Intermediate Shell

May 15
Active Project Version Control with Git

Store & Evaluate

February 7
The When, Where, and How of Data Storage

February 27
Introduction to the General Records Schedule

March 20
Managing Data Transfer Between Collaborators

March 26
Managing Your Paper Records

May 7
Managing Your Electronic Records

Share & Publish

January 16
Data Sharing and Reuse on the Vivli Platform

February 13
Introduction to Harvard Dataverse

February 15
Research Management Using the Open Science Framework

April 10
Achieving FAIR Data: Selecting a Repository for Your Data

In-person
Virtual

LONGWOOD RESEARCH DATA MANAGEMENT

Learn More & Register: bit.ly/rdmwg-calendar

https://datamanagement.hms.harvard.edu/about/news-events/rdmwg-calendar

Additional workshops on shell

Accelerate with Automation - Making your code work for you

March 20th

Needle in a Haystack - Finding and summarizing data from colossal files

April 17th

Shell Tips and Tricks on the O2 cluster

May 15th

We hope to see you soon!

Bioinformatics Community Networking Breakfast!

- ***Free and open*** *to the Harvard community*
- *Food is* ***first-come-first-served***
- ***No computers!***
- ***Coming soon end of March!***

More info: http://bioinformatics.sph.harvard.edu/breakfast/

Thanks!

- **Kathleen Chappell** and **Andy Bergman** from HMS-RC
- Data Carpentry

These materials have been developed by members of the teaching team at the Harvard Chan Bioinformatics Core (HBC). These are open access materials distributed under the terms of the Creative Commons Attribution license (CC BY 4.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Contact us!

HBC webpage: http://bioinformatics.sph.harvard.edu

HBC training materials: http://hbctraining.github.io/main

HBC workshop listserv: https://tinyurl.com/hbc-mailing-list

Training email: hbctraining@hsph.harvard.edu

Consulting email: bioinformatics@hsph.harvard.edu

O2 (HMS-RC): rchelp@hms.harvard.edu

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@bioinfocore