



# Introduction to the command-line interface (shell)

Harvard Chan Bioinformatics Core

in collaboration with

HMS Research Computing

<https://tinyurl.com/hbc-shell>

# 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!

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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](mailto: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?

# O2 User Training

Class	Date	Time	Location	Seats
Intro to O2	Wednesday, June 15, 2022	3-5pm	Virtual	35
Intro to Git/Github	Re-scheduled to Thursday, June 30th, 2022	3-4pm	Virtual	35
Intro to MATLAB	Wednesday, June 29, 2022	3-5pm	Virtual	35
Intro to Python	Wednesday, July 13, 2022	3-5pm	Virtual	35
Intro to R/Bioconductor	Wednesday, July 20, 2022	3-5pm	Virtual	35
Optimizing O2 jobs	Wednesday, July 27, 2022	3-4pm	Virtual	35
Intro to Parallel Computing	Wednesday, August 3, 2022	3-5pm	Virtual	50

<https://harvardmed.atlassian.net/wiki/spaces/O2/pages/1588666299/User+Training>

# 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

- *"I've Generated Data, Now What?: The When, Where, and How of Data Storage"* - Aug 10th
- *"Understanding My Data Management Role: How to Comply with the NIH Policy"* - Aug 17th
- *"Do Right by Your Data: Defeating Bias(es) in the Multiverse of Research"* - Aug 24th

<https://datamanagement.hms.harvard.edu/about/news-events/rdmwig-calendar>



# Thanks!

- Kathleen Chappell and Andy Bergman from HMS-RC
- [Data Carpentry](#)

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# 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](mailto:hbctraining@hsph.harvard.edu)

*Consulting email:* [bioinformatics@hsph.harvard.edu](mailto:bioinformatics@hsph.harvard.edu)

*O2 (HMS-RC):* [rhelp@hms.harvard.edu](mailto:rhelp@hms.harvard.edu)

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