The New Web Portal for HMS' O2 Cluster: Simplifying the Experience of High Performance Computing with Open OnDemand

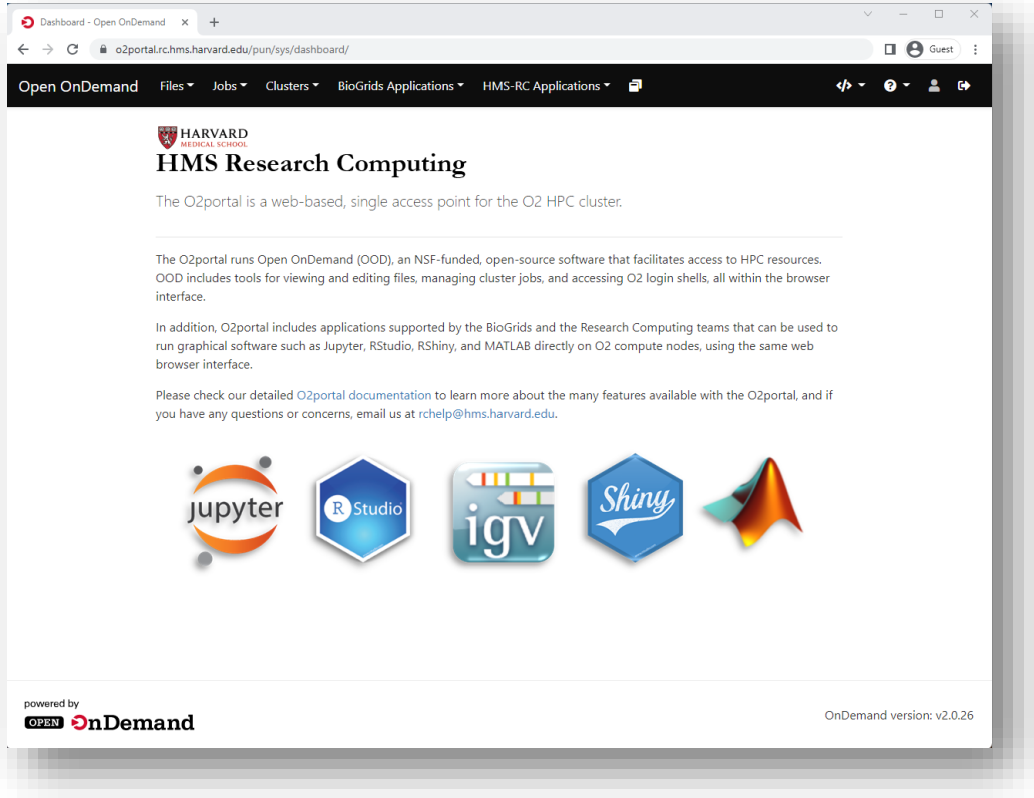
CCB SEMINAR – 6/27/22

Agenda

- General Overview
- Open OnDemand Pilot – Highlights
- Access to O2 Portal
- Features and Documentation

Overview

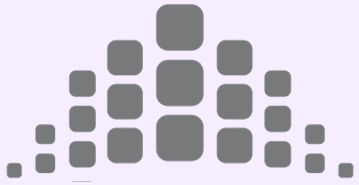
- O2 Portal is web-based, single access point for the O2 HPC cluster
- Powered by Open OnDemand
  - Hudak et al. (2018)
  - NSF-funded
  - Open-source



Open OnDemand Pilot – positive response from testers

40+ Beta Testers
18 Labs/Groups

BioGrids & HMS-RC Applications



1,130 jobs in the last 6 months

Open OnDemand Pilot – positive feedback

"My experience with the pilot has been overall really positive. It's a nice intuitive UI that makes it easy to submit the jobs." - Neurobiology researcher

"I haven't noticed a difference in latency when running RStudio via OOD or on my local machine. This opens up a slew of uses for O2 that didn't exist before." - Center for Computational Biomedicine staff

"This is such an incredible resource for the users, and I am very excited about it" - Genetics researcher

"I've been telling other members of my lab about it.... I know a lot of people who are going to want to use it." - Genetics researcher

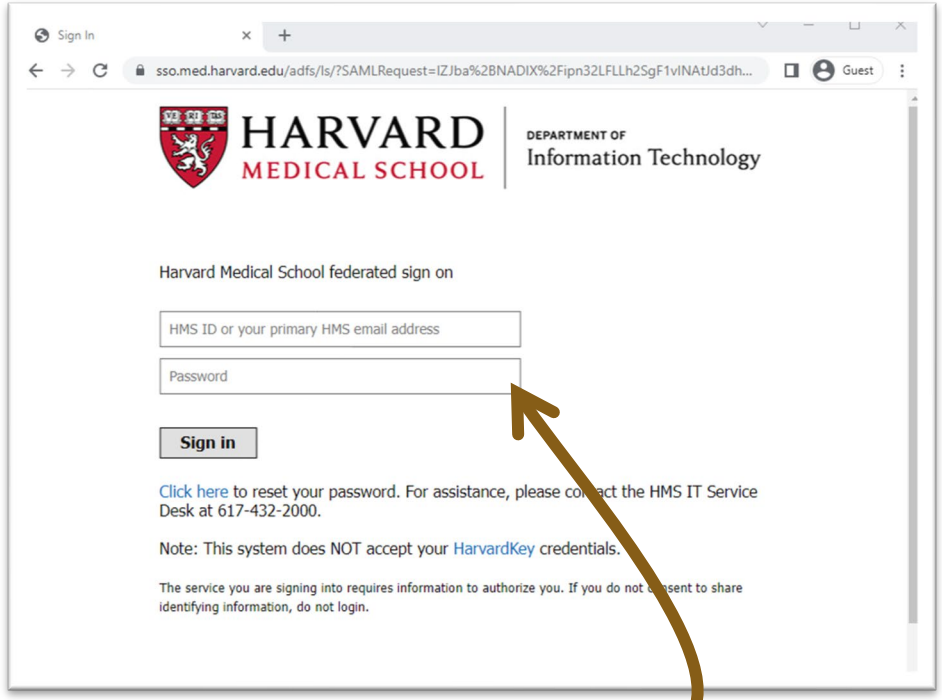
"I'm thrilled to be able to use this [graphical] pipeline now on O2. I'm able to log onto OOD and the ClearMap viewer worked perfectly... This has been soooo helpful." – Neurobiology researcher

"I really like the drag-and-drop file transfer — it's very convenient" - Systems Biology researcher

Access to O2 Portal

Requirements

- O2 account
- Setup 2FA authentication



Authenticate with HMS ID

VPN is not required

Transfer Files

Submit Jobs

Monitor Jobs

Portal

Terminal

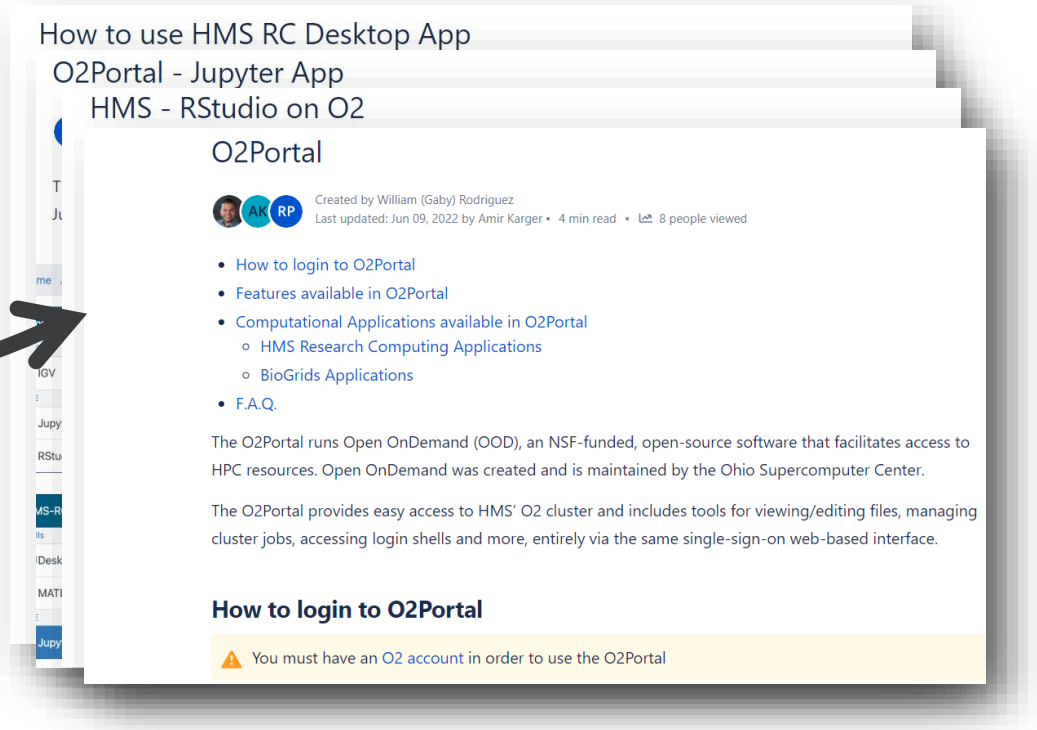
View/Edit Files

Applications

Applications

Documentation

O2 Portal Documentation in Confluence – (Link)



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Demo

https://o2portal.rc.hms.harvard.edu/