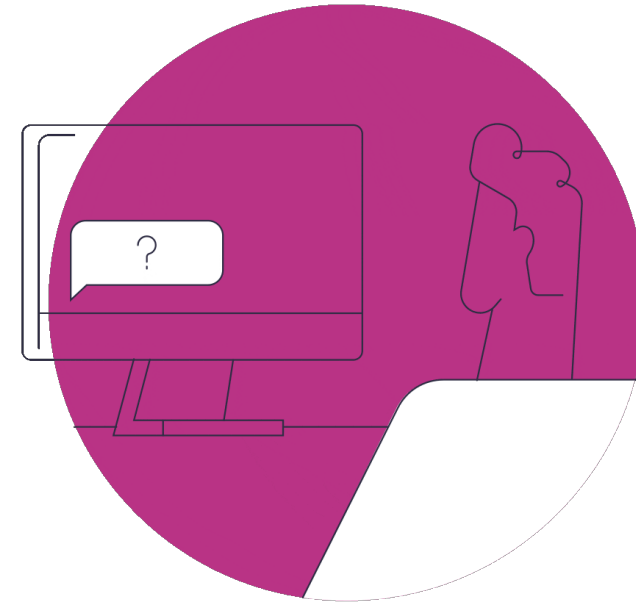
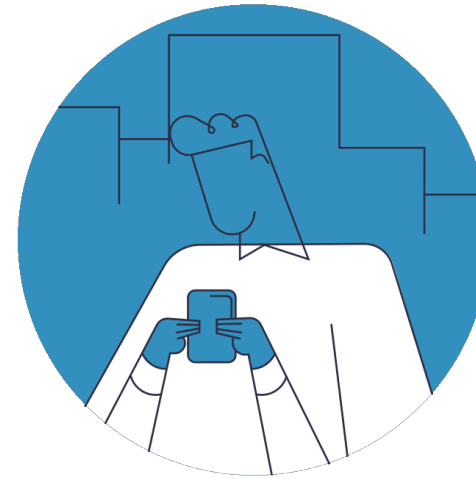


Connecting Computing Power with Powerful Minds

Alan Chalker



This work is supported by the National Science Foundation of the United States under the awards 1534949, 1835725, 2138286, 2303692, and 2411375

openondemand.org/ok24

Agenda

About Open OnDemand

Walkthrough

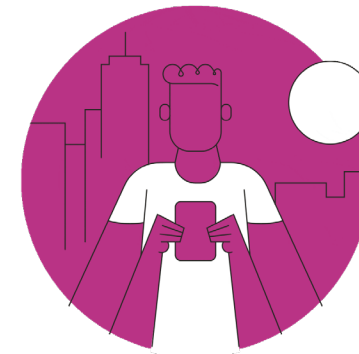
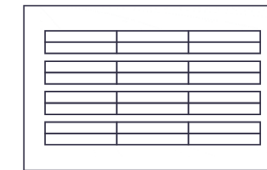
Success Stories

Engaging with the Project



Run Open OnDemand

Access your organization's supercomputers through the web to compute from anywhere, on any device.



Zero installation

Run Open OnDemand entirely in your browser. No client software installation required.

Easy to use

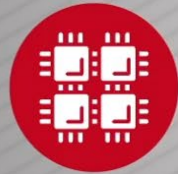
Start computing immediately. A simple interface makes Open OnDemand easy to learn and use.

Compatible with any device

Launch on any device with a browser—even a mobile phone or tablet.

openondemand.org/run

Any Device, Anywhere

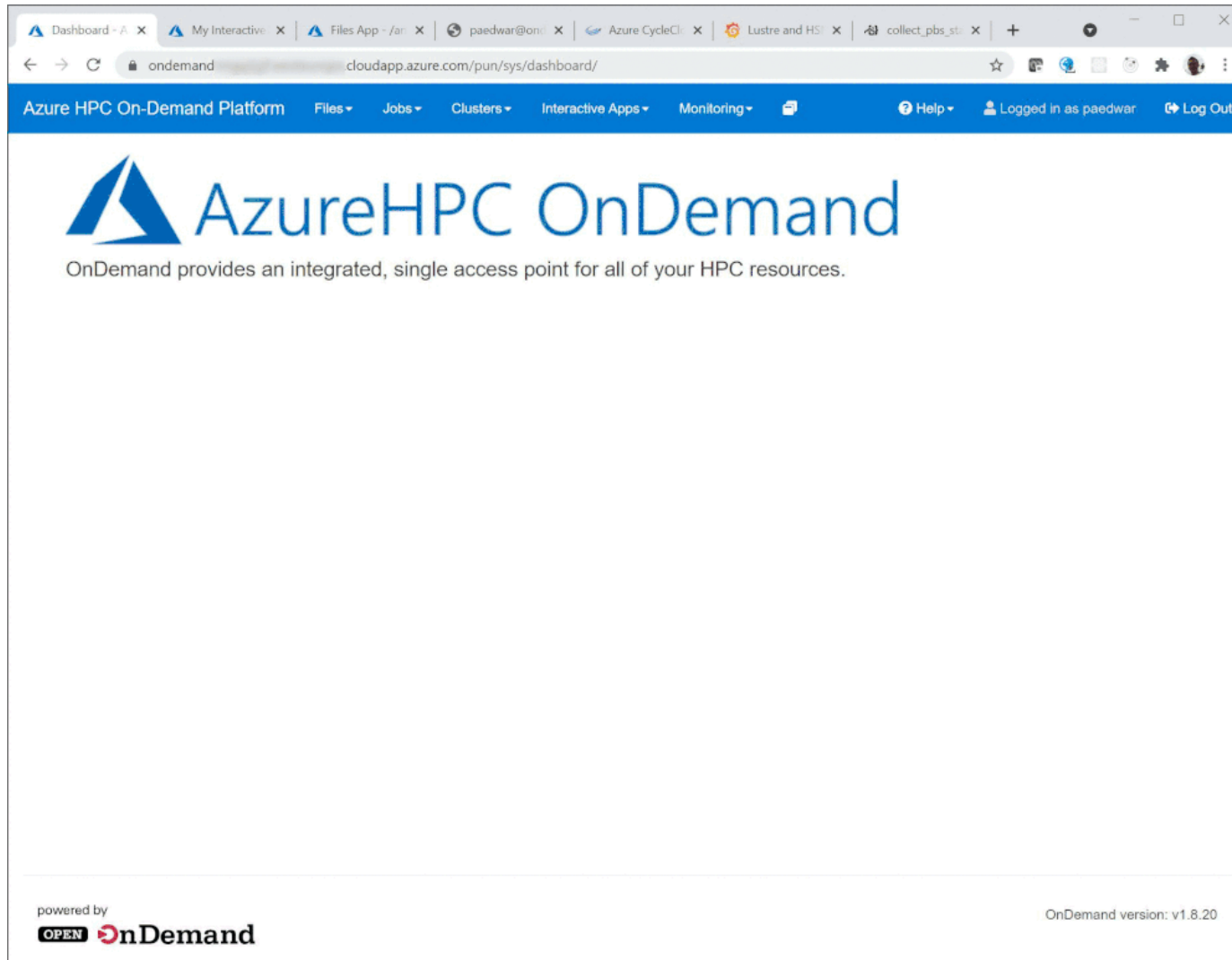


Ohio Supercomputer Center

An **OH·TECH** Consortium Member

openondemand.org/anydevice

Commercial Cloud



openondemand.org/aws



openondemand.org/azure



openondemand.org/gcp

NSF ACCESS



Hive



Rockfish



ACES &
FASTER



Anvil



Bridges-2 &
Neocortex



KyRIC



Delta



Ookami

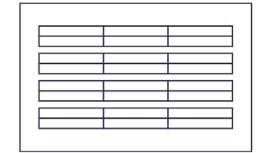
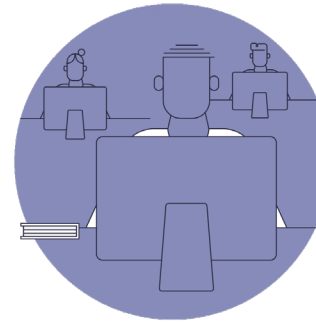


Expanse

openondemand.org/access

Install Open OnDemand

Administer remote web access to your supercomputers to transform the way users work and learn.



Low barrier to entry

Empower users of all skill levels by offering an alternative to command-line interface.

Free and open source

Install Open OnDemand for free, and gather knowledge from our large open-source community.

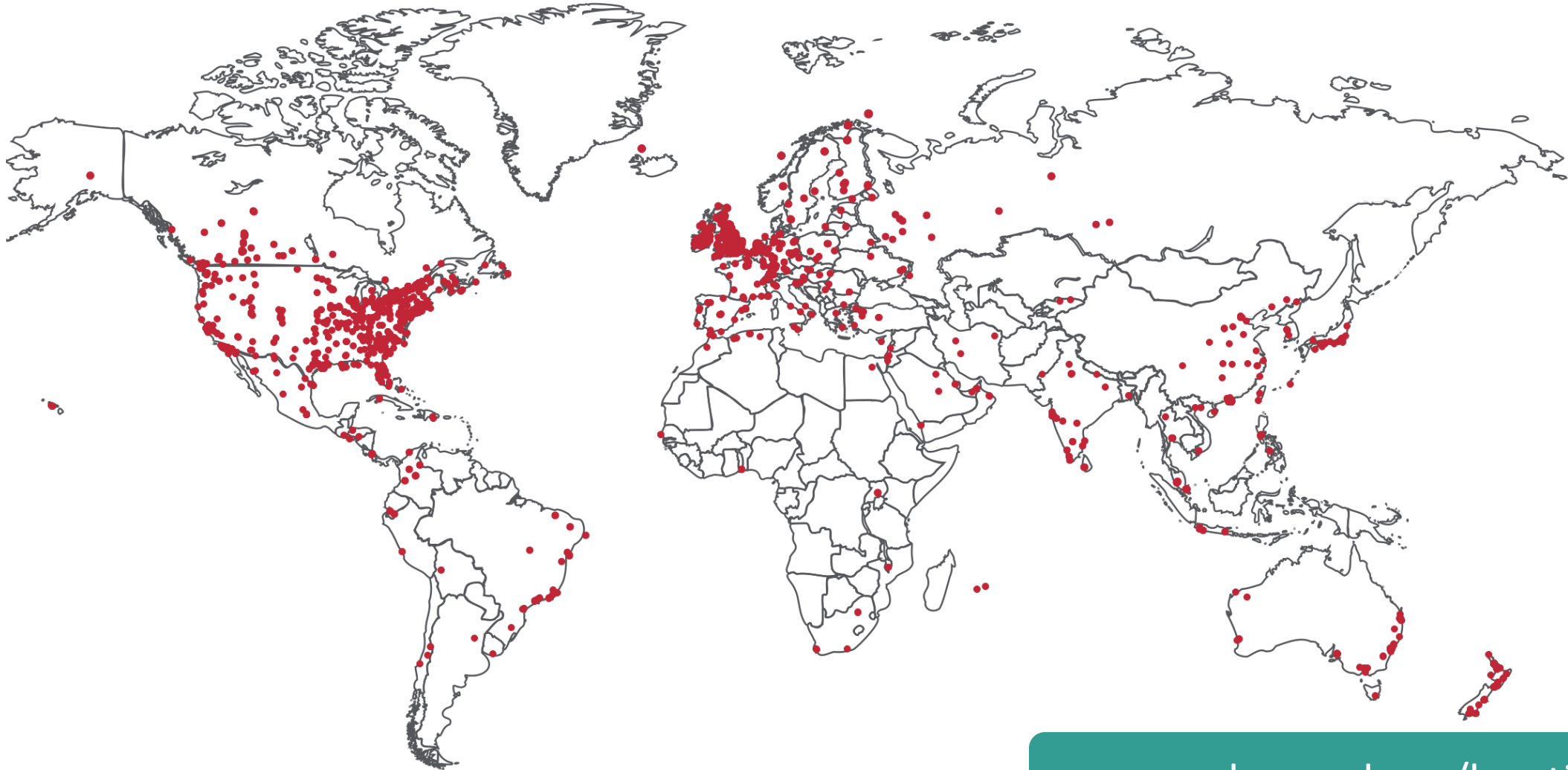
Configurable and flexible

Create and deploy your own applications to meet your users' unique needs.

openondemand.org/install

Deployed Worldwide

95 Countries | 1,646 Organizations



openondemand.org/locations

Example Deployments

Nonprofit / Research centers



International academia



Government



Minority-serving institutions



Private academia




















































Public academia



Industry



Enabled Utilities & Apps

 Abaqus	 AMDuProf	 ANSYS	 Arm	 BEAST 2	 MRIcron	 NetLogo	 Nsight Eclipse	 Octave	 OVITO
 Blender	 CHIMERA	 COMSOL	 Coot	 DeepLabCut	 ParaView	 PseudoFuN	 PSPP	 PyCharm	 PyMOL
 Eclipse	 Firefox	 Galaxy	 GaussView	 Grace	 QGIS	 RELION	 RStudio	 Schrodinger	 Shiny
 GSEA	 IDL	 jupyter	 LS-DYNA	 Lumerical	 Siril	 STAR-CCM+	 Stata	 TensorBoard	 Visit
 Maestro	 Mathematica	 MATLAB	 Maya	 Meshroom	 Visual Studio Code	 VMD	 WebMO	 XDMoD	

Agenda

~~About Open OnDemand~~

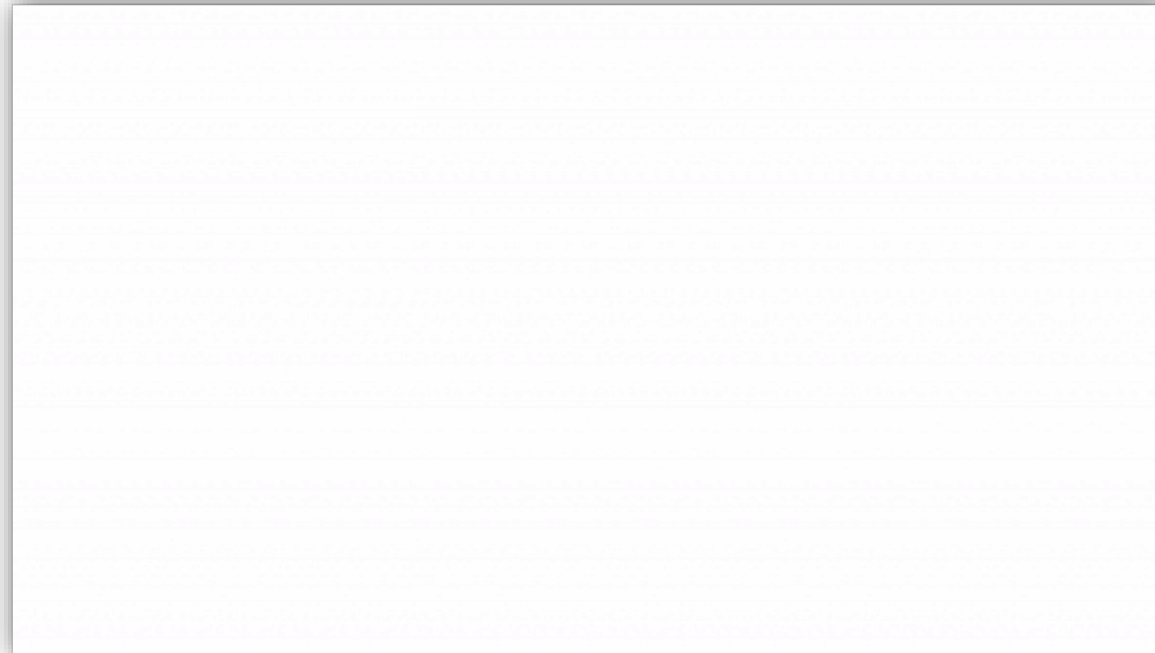
Walkthrough

Success Stories

Engaging with the Project



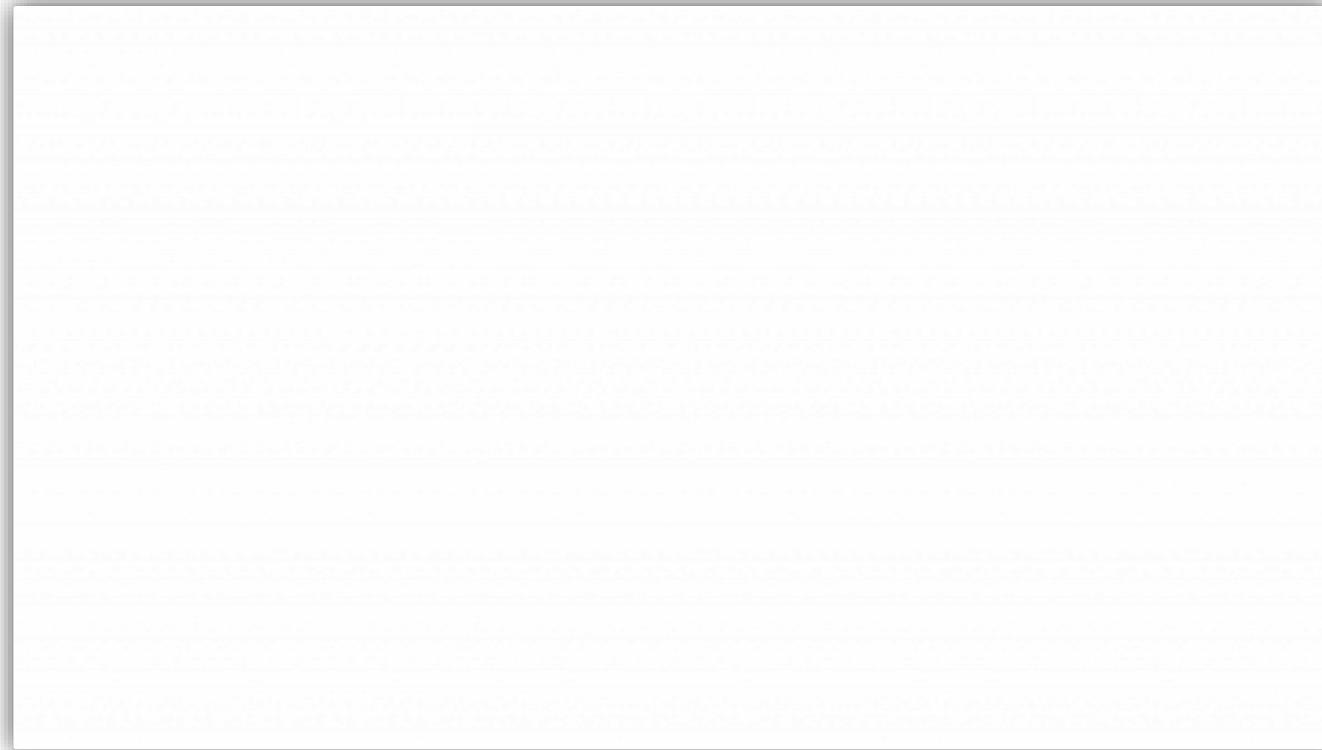
Log In



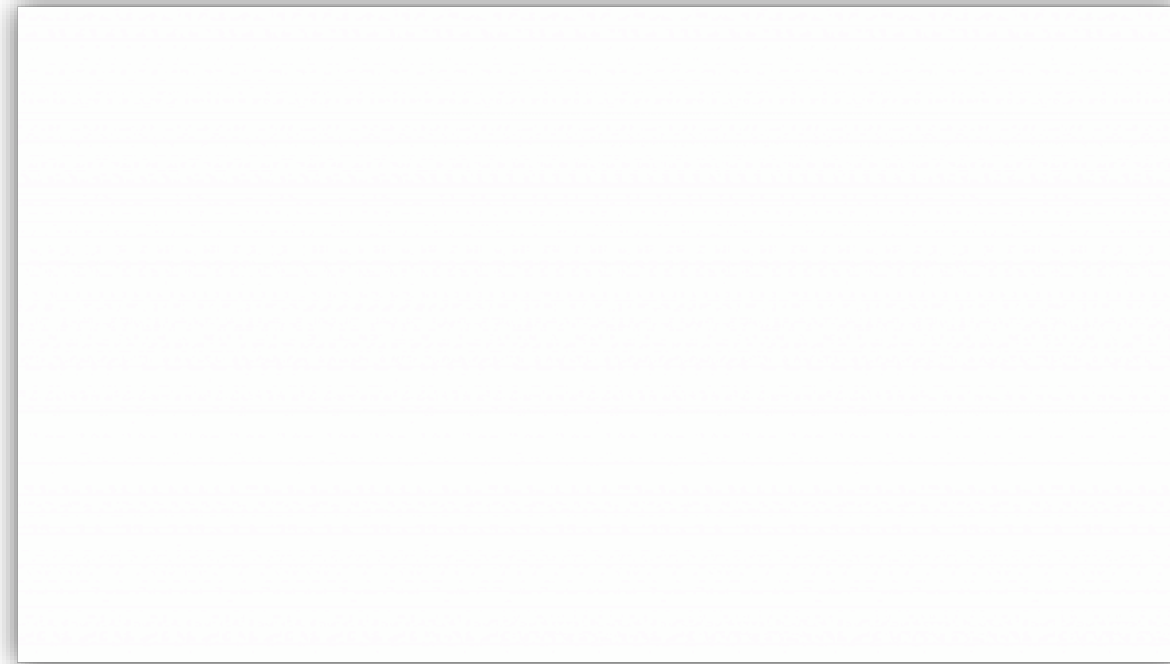
Profiles



System Status



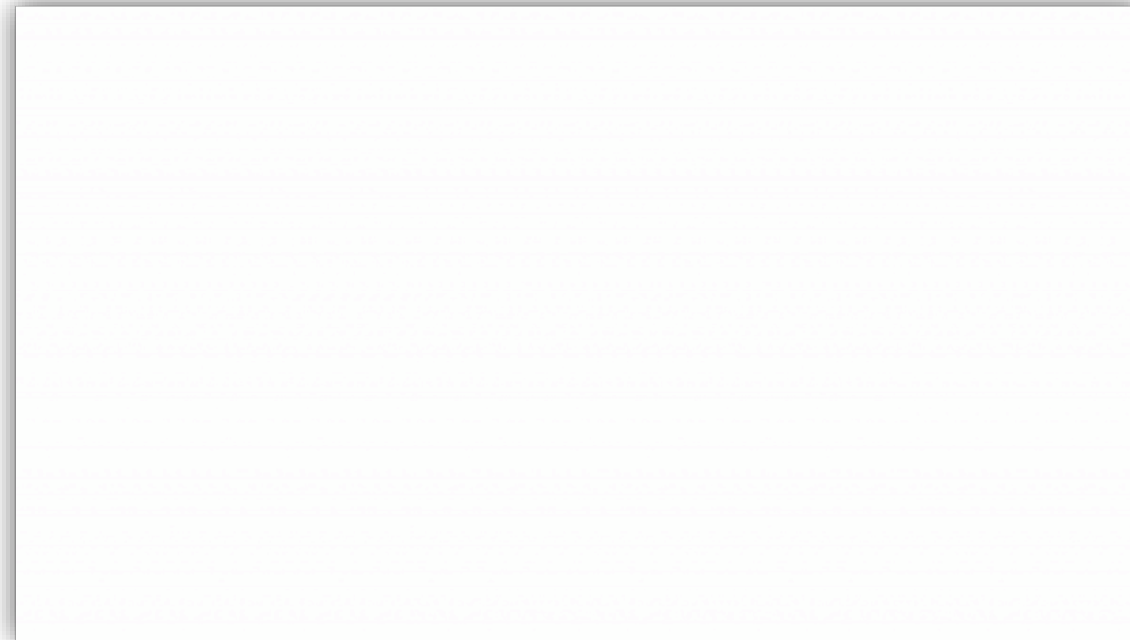
File Browser



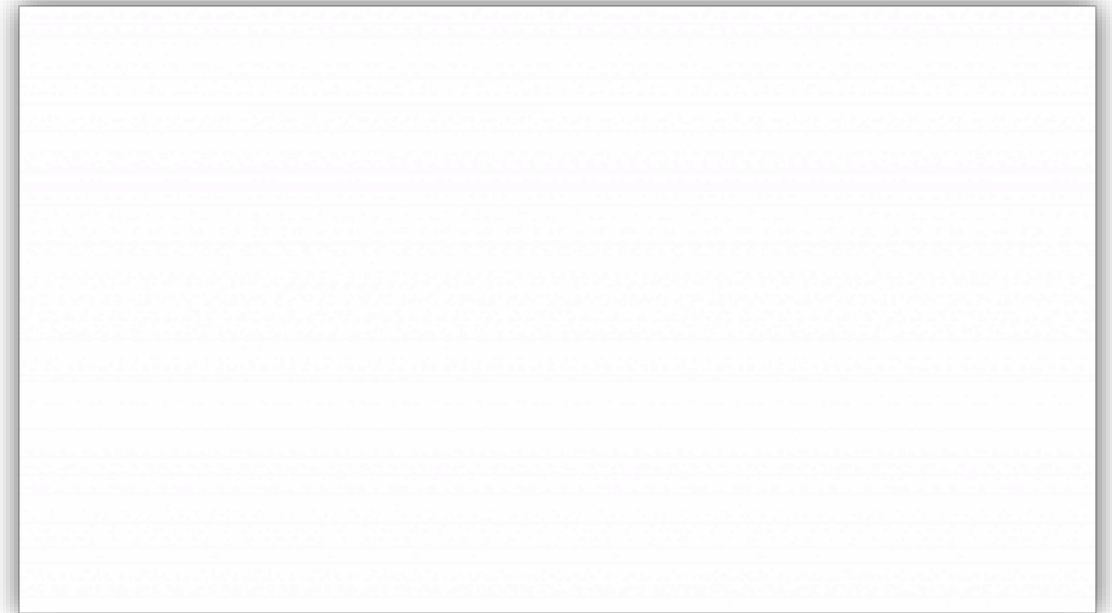
Globus Integration



Example App: Shell



Example App: Virtual Desktop



Example App: Jupyter



Agenda

~~About Open OnDemand~~

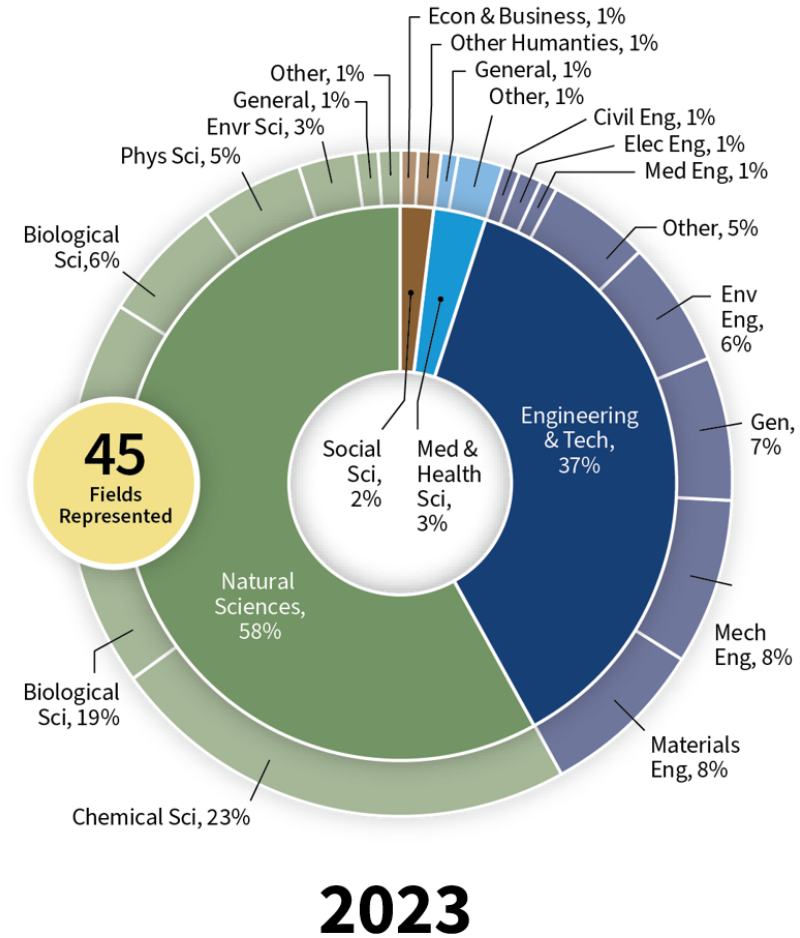
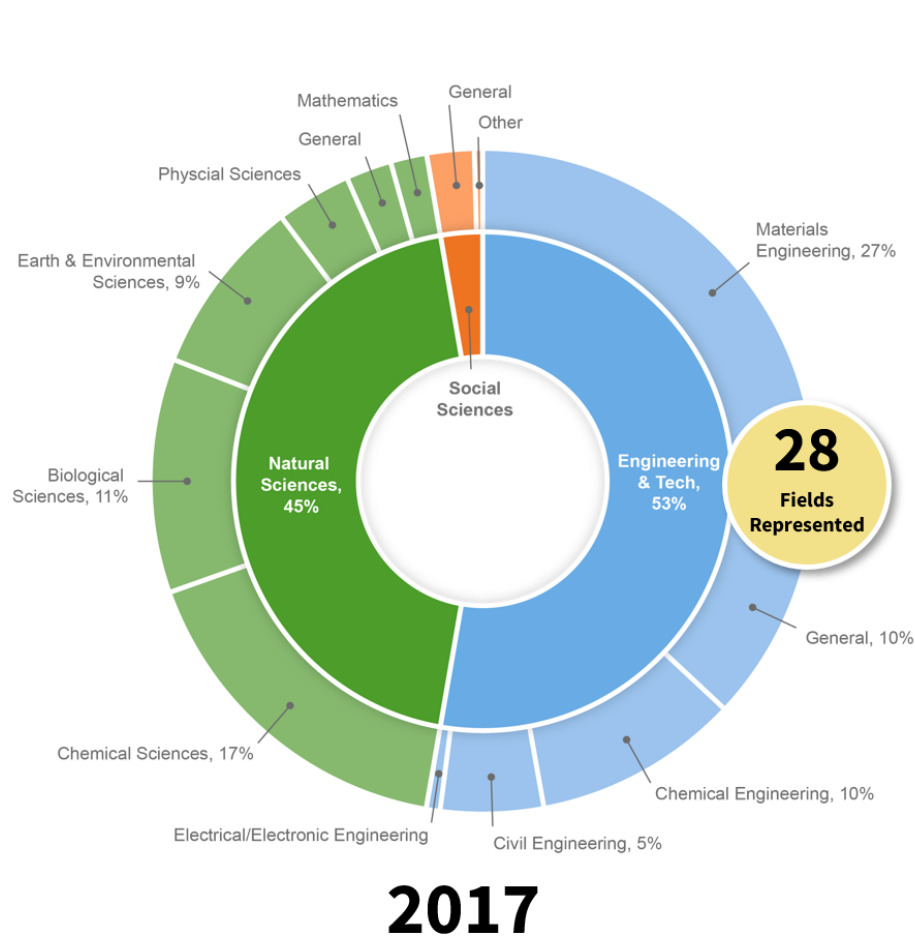
~~Walkthrough~~

Success Stories

Engaging with the Project



Impact at OSC



Digital Arts

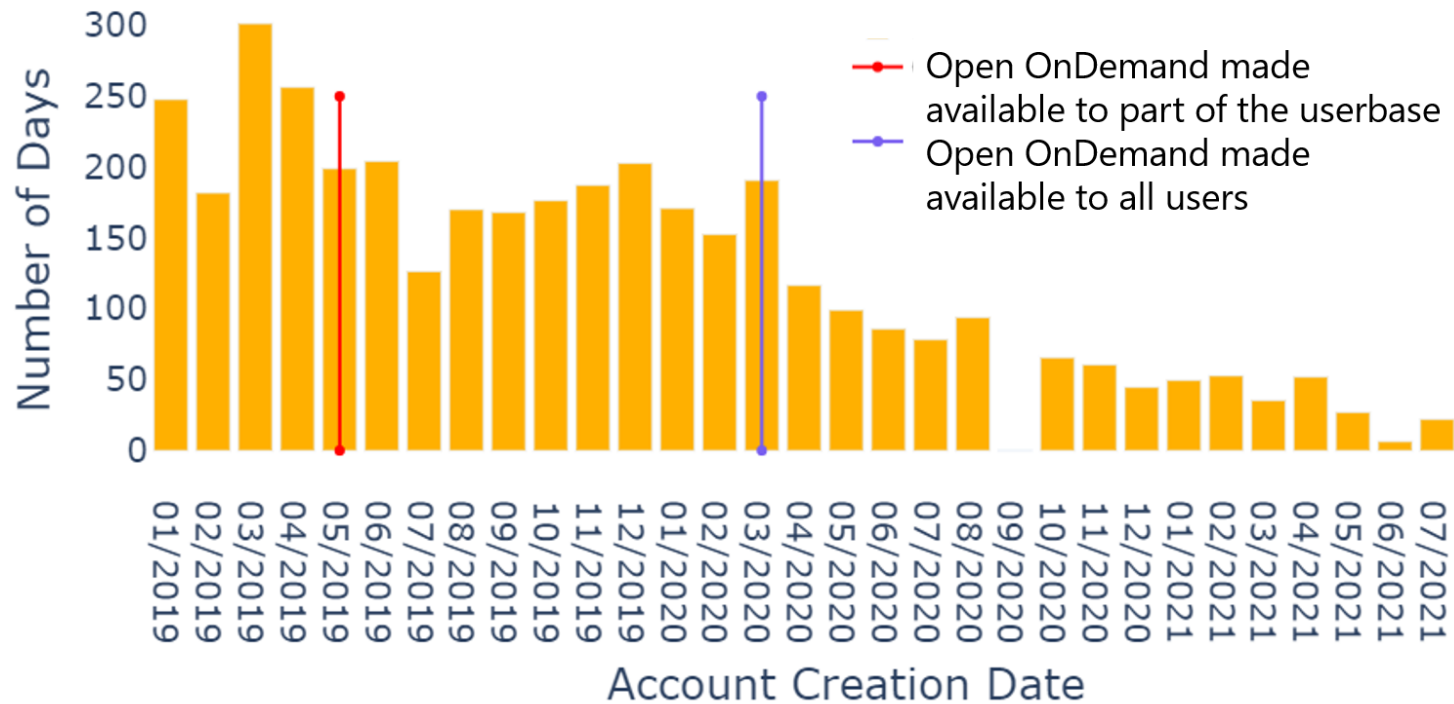


“OSC brought equity and accessibility to my students, allowing them to use top-of-the-line technologies in a safe environment from any device.”

— Basil Masri Zada,
Ohio University professor

Idaho National Lab

Average Number of Days Between Account Creation to First Job Submission



19 times shorter

In days between account creation and first job submission

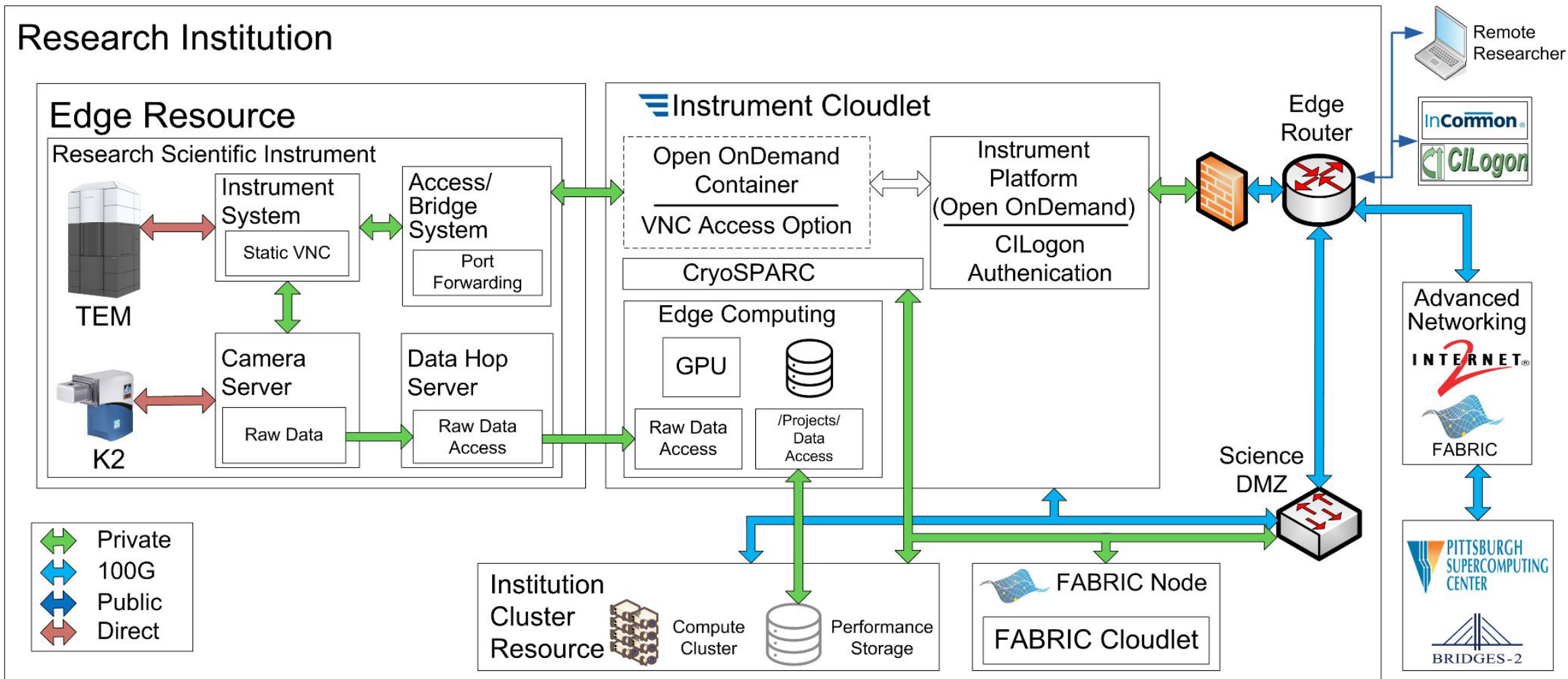
Classroom Computing



“When they log in to the OnDemand server through OSC on their iPads, they all see exactly the same thing. We can write laboratory exercises and write hints for homework problems and this helps them have a standardized environment and know what to expect when they use the tool.”

— Laura Kubatko, Ohio State professor

Remote Science



LUMI OnDemand

Introducing a new web interface for LUMI

9.11.2023

A new, easy-to-use web interface for LUMI has been launched at <https://www.lumi.csc.fi>, providing all the resources and power of the LUMI supercomputer with an easy-access web interface.

This new user interface offers something both for less experienced users as well as seasoned power users. The main features are its ability for users to easily launch interactive applications and connect to them seamlessly from the browser. Key highlights include a comprehensive Linux Desktop that offers a rich graphical environment for data visualization and analysis as well as Jupyter environments for Python and Julia. Additionally, users can launch custom containerized environments for, e.g., courses. It also includes VSCode for code development as well as Tensorboard for AI.

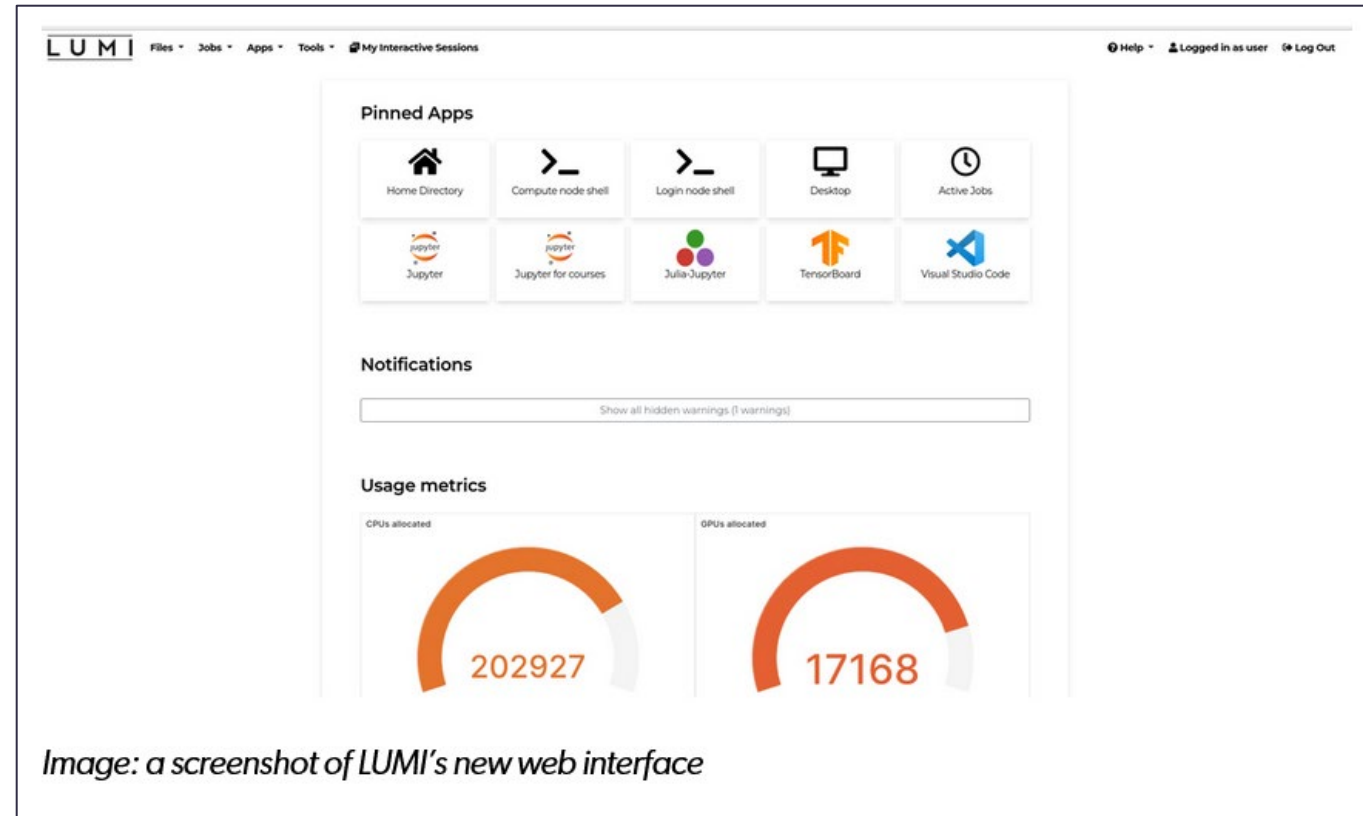
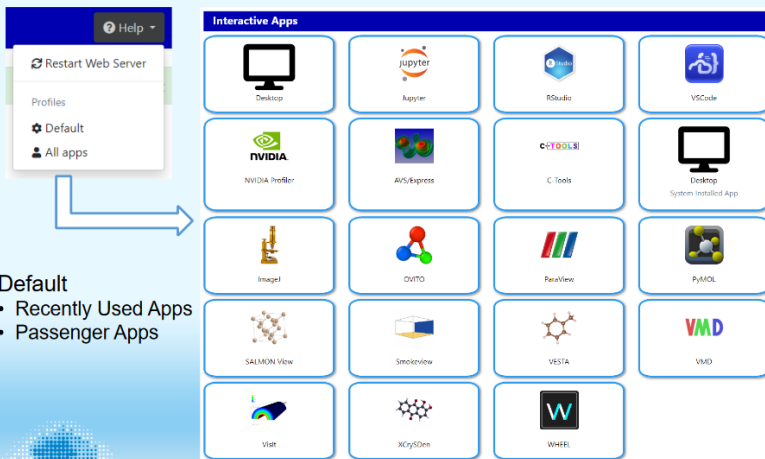


Image: a screenshot of LUMI's new web interface

Riken Workshop

Some Visualization Applications (OnDemand)

Select "All apps" if "Batch Jobs" and "Interactive Apps" do not appear.

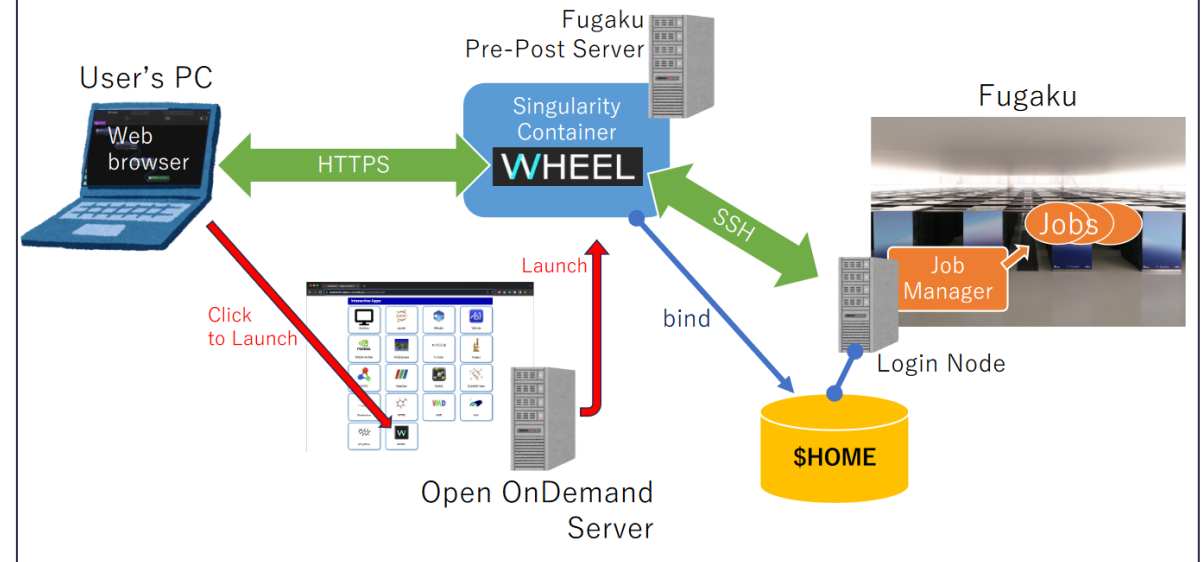


The screenshot shows the Open OnDemand application interface. On the left, there is a sidebar with a "Help" menu and a "Profiles" dropdown menu containing "Restart Web Server", "Default", and "All apps". The main area displays a grid of "Interactive Apps" including Desktop, Jupyter, RStudio, VSCode, NVIDIA, AVS/Express, C-Tools, Desktop System installed App, ImageJ, OVITO, ParaView, PyMOL, SALMON View, Smokeview, VESTA, VMD, VisIt, XCRYSDEN, and WHEEL. Below the grid, there is a "Default" section with "Recently Used Apps" and "Passenger Apps".

- **General-Purpose**
 - AVS/Express (Non-OSS)
 - ParaView
 - VisIt
- **Domain Specific**
 - VMD
 - OVITO
 - PyMol
 - ...



On Fugaku Open OnDemand



Agenda

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~~Success Stories~~

Engaging with the Project




Reaching Us

Latest

	Issues with Bundler and Passenger when Updating Open OnDemand 3.0 ■ Get Help	8 10h
	Open OnDemand tips and tricks calls ■ Announcements	105 22h
	Restrict users from accessing some apps ■ Get Help	1 1d
	Unexpected behavior when there is a single character surrounded by underscores ■ Get Help question	1 1d
	☑ JUPYTER_PATH does not add my customized directory into kernelspec ■ Get Help question	2 4d



OPEN  nDemand

categories ▾ tags ▾ **Categories** Latest Top

Category	Topics
Get Help Topics with specific questions or help requests	1.5k
Feature Requests and Roadmap Discussion Topics with feature requests or project roadmap suggestions	161
Announcements Topics with announcements by the project team	84
General Discussion Topics that don't fit into one of the other categories	73
Interested In Contributing? If you are interested in contributing to the Open OnDemand platform, please leave a post stating how you would like to contribute. We will reach out and help you get started.	6

openondemand.org/discourse

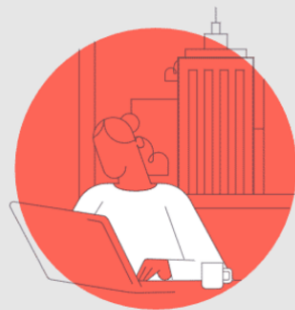
Staying Up To Date

OPEN

 nDemand

openondemand.org

Connecting Computing Power
With Powerful Minds



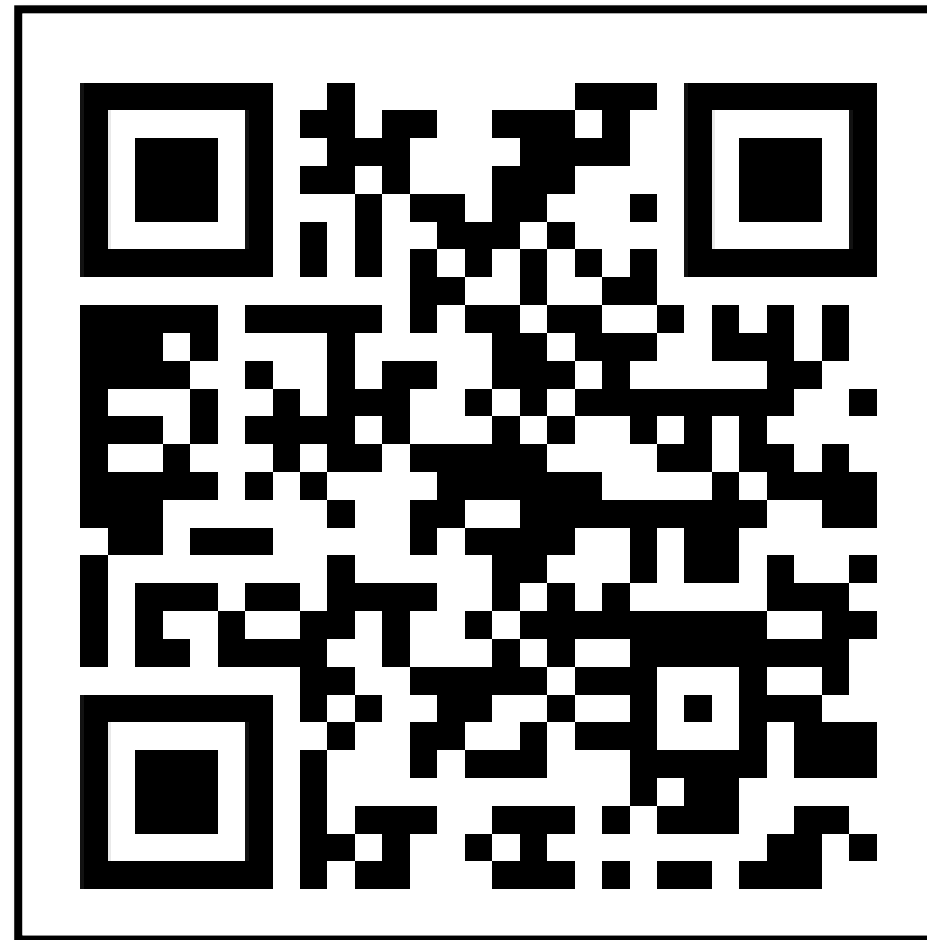
Open OnDemand Version 3.1.7 Available

3.1.7 is now generally available, which includes several bug fixes and security related fixes. **Please note that the security fix is around leaking secret environment variables, so we strongly encourage all existing deployments to apply this update.**

Fixed:

- Logo images no longer take 100% width
- Dynamic batch connect forms now accept fields with numbers
- Host based profiles now correctly route to the correct server alias






Added/Changed:








openondemand.org/newsletter

Videos & Publications

Video Archive

- 
05.09.24
Project Webinar: CaRCC call
- 
04.18.24
Project Webinar: Overview
- 
11.02.23
Tips Webinar: ALL GOOD
- 
09.07.23
Tips Webinar: PEARC23 BoF
- 
06.01.23
Tips Webinar: Customizations

Publications

- 
05.13.24
ISC24 Preso: User group meeting
- 
04.30.24
Project Paper: Style Guide
- 
03.22.24
Project Paper: General brochure
- 
11.14.23
SC23 Preso: CSC LUMI
- 
11.12.23
SC23 Paper: Fugaku

Community Events



Tips and tricks calls

Hosted by the larger Open OnDemand community, tips and tricks webinars share best practices for setting up and using Open OnDemand. They take place on the first Thursday of every month at 1 p.m. ET.



Open office hours

Hosted by our development team, Zoom open office hours are the perfect opportunity to ask questions or make a suggestion. They are held on the second Tuesday of every month from 11:15 a.m. to 12:45 p.m. ET.

View the Live Roadmap

GitHub Issue Review Project Add status update

Dev Rel View + New view

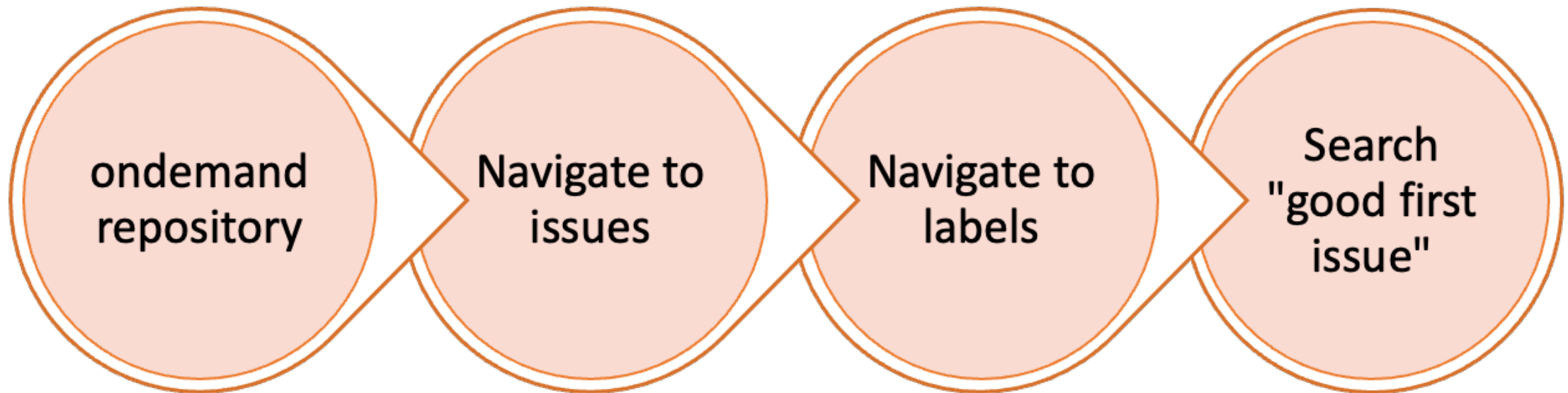
Filter by keyword or by field Disc

- Waiting** 20
In queue to be reviewed next.
 - ondemand #354
Downloading research data based on the DOI of a dataset
 - ondemand #375
ActiveJobs has no tests
 - ondemand #379
Add "About this installation" page
 - ondemand #392
Provide an OnDemand "branded" OIDC error template
 - ondemand #394
Specify columns returned in activejobs
 - ondemand #412
Support quotas by group rather than just by user
 - ondemand #415
- Further Discussion or Action** 3
These issues need further discussion amongst the team.
 - ondemand #163
JobComposer: Consider adding a timeout when submit host unresponsive.
 - ondemand #225
Dashboard: Hide launch shell buttons if OOD_DEV_SSH_HOST is not set
 - ondemand #22
Supprt Themes in the dashboard
- Reviewed, Scheduled** 17
These issues were reviewed by the team. These issues were categorized to be in the next major "milestone" or release.
 - ondemand #294
FileExplorer: Allow user to chmod files.
 - ondemand #274
Test cases for file downloads' content-type headers
 - ondemand #240
Dashboard: Properly timeout when IO to unavailable or unstable volumes result in process in uninterruptible sleep state
 - ondemand #237
Dashboard: Provide "rss widget" ability to dashboard so we can show "known issue alerts"
 - ondemand #254
File-Editor: Properly handle files with different encodings
- Reviewed, Not Scheduled** 23
These issues were reviewed, but not determined as a priority.
 - ondemand #138
ActiveJobs: Add 'hold' and 'release' buttons.
 - ondemand #186
JobComposer: Feature Upgrade: Convert script <pre> into editable pane.
 - ondemand #183
JobComposer: Custom, user defined template sources
 - ondemand #280
FileExplorer: Maybe bring back ctrl-c and ctrl-v keyboard shortcuts
 - ondemand #279
FileExplorer: Use ~ for going to folders
 - ondemand #133
ActiveJobs: Use scrollspy to fix the expanded row at top when it scrolls out of view

Getting Involved

Contribute to Open OnDemand!

We want our community to be a part of our development



openondemand.org/github

Thank You!

Alan Chalker

alanc@openondemand.org

