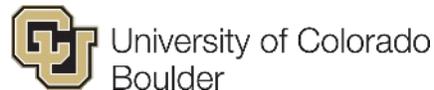


EasyBuild User Meeting Open OnDemand Overview

Dhruva Chakravorty

Co-Principal Investigator, Open OnDemand



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

openondemand.org

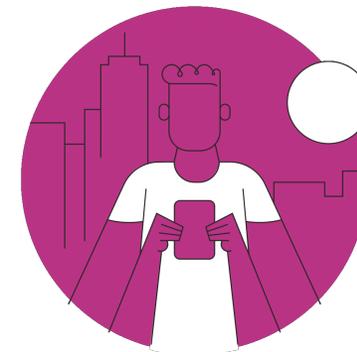
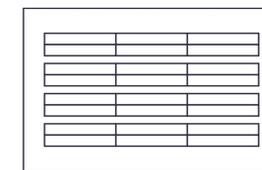
Agenda

- **About Open OnDemand**
- Technical Updates and Getting Involved
- Discussion



Run Open OnDemand

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



Zero installation

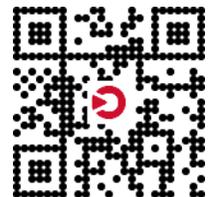
Run Open OnDemand entirely in your browser. No client software installation required.

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.



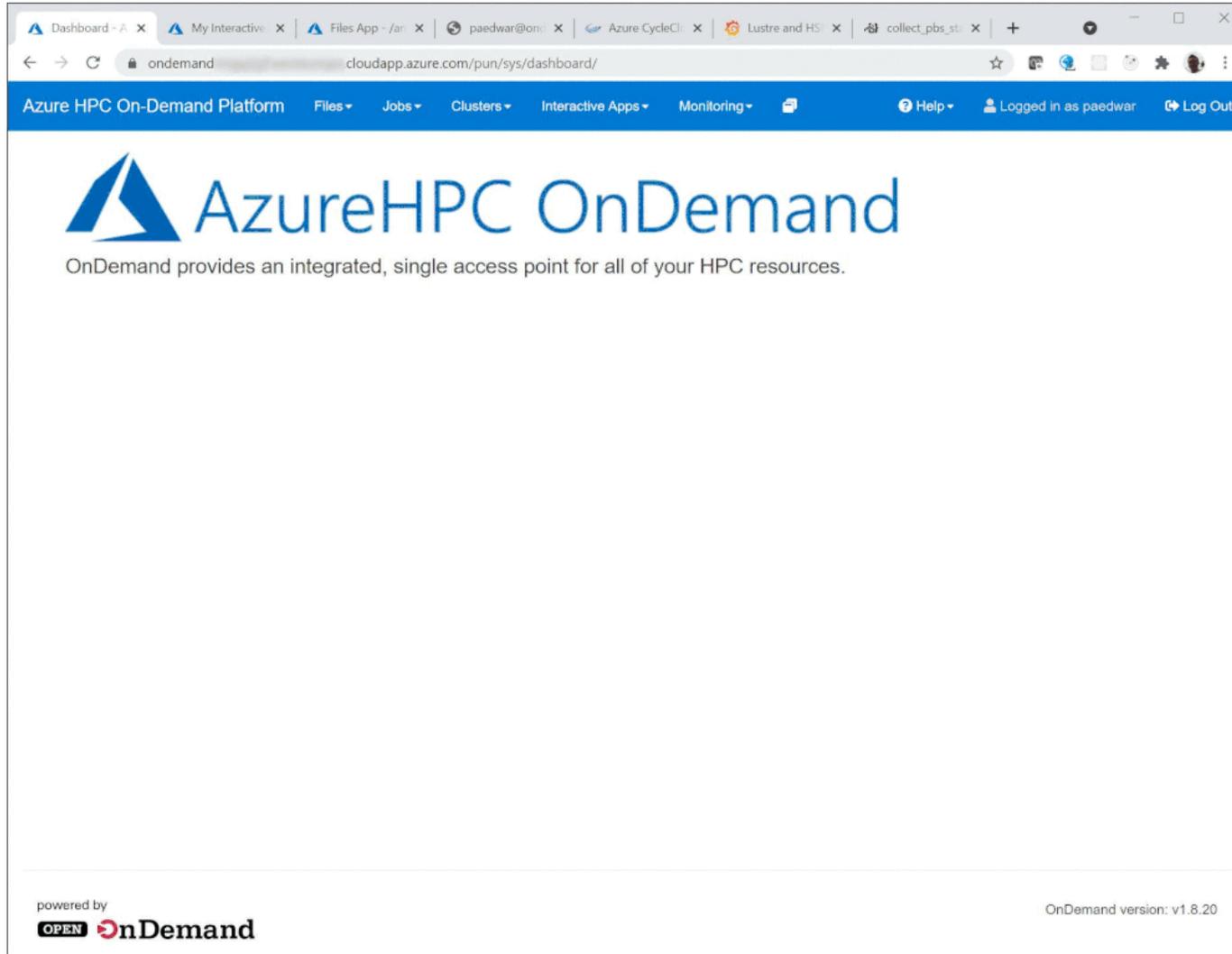
openondemand.org/run

Any Device, Anywhere



openondemand.org/anydevice

Commercial Cloud



openondemand.org/aws



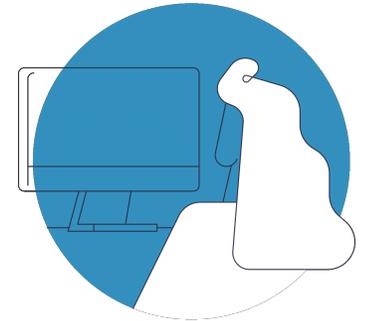
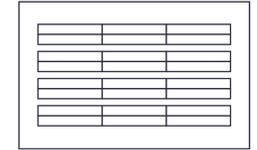
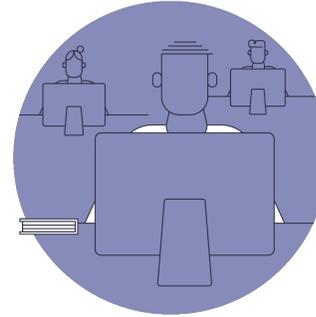
openondemand.org/azure



openondemand.org/gcp

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

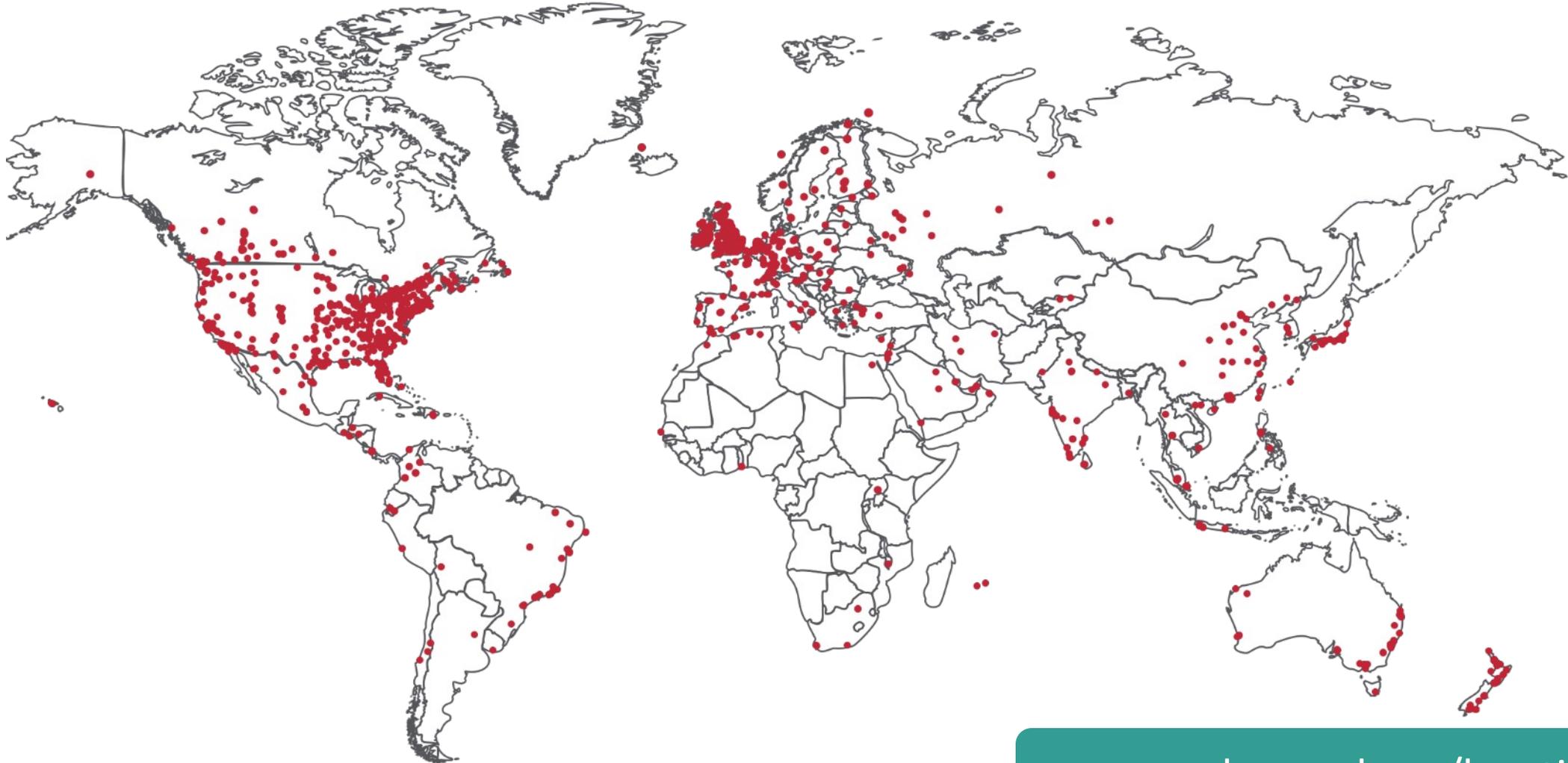
Create and deploy your own applications to meet your users' unique needs.



openondemand.org/install

Deployed Worldwide

100+ Countries | 2,100+ Organizations



openondemand.org/locations



Example Deployments

Nonprofit / Research centers



International academia



Government



Minority-serving institutions



Private academia



Public academia



Industry

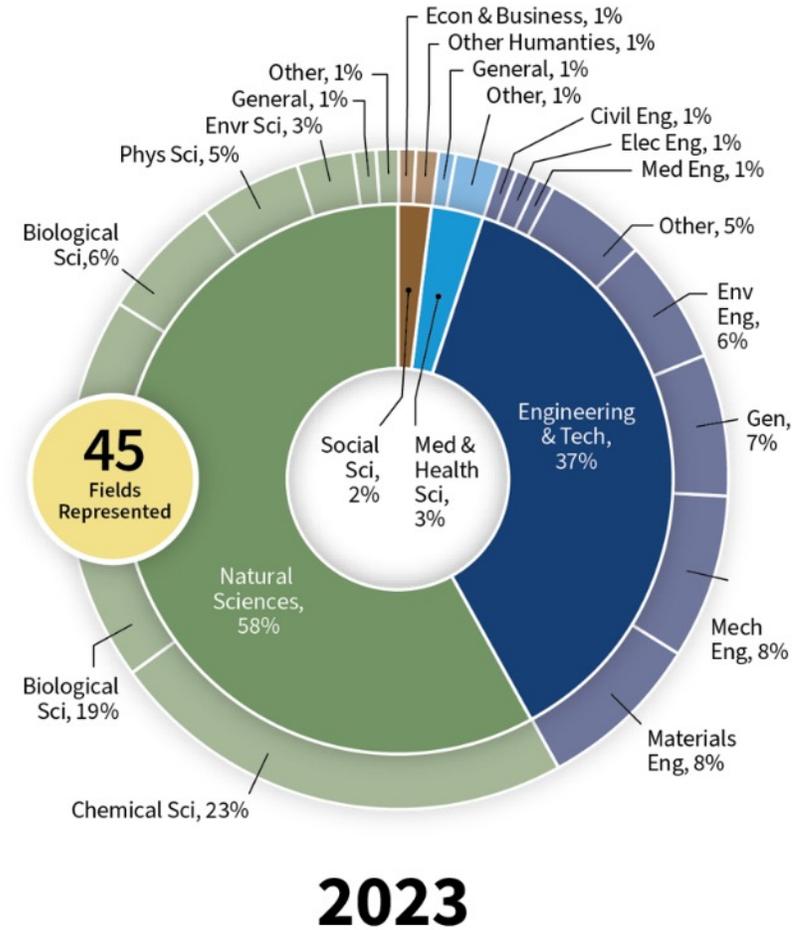
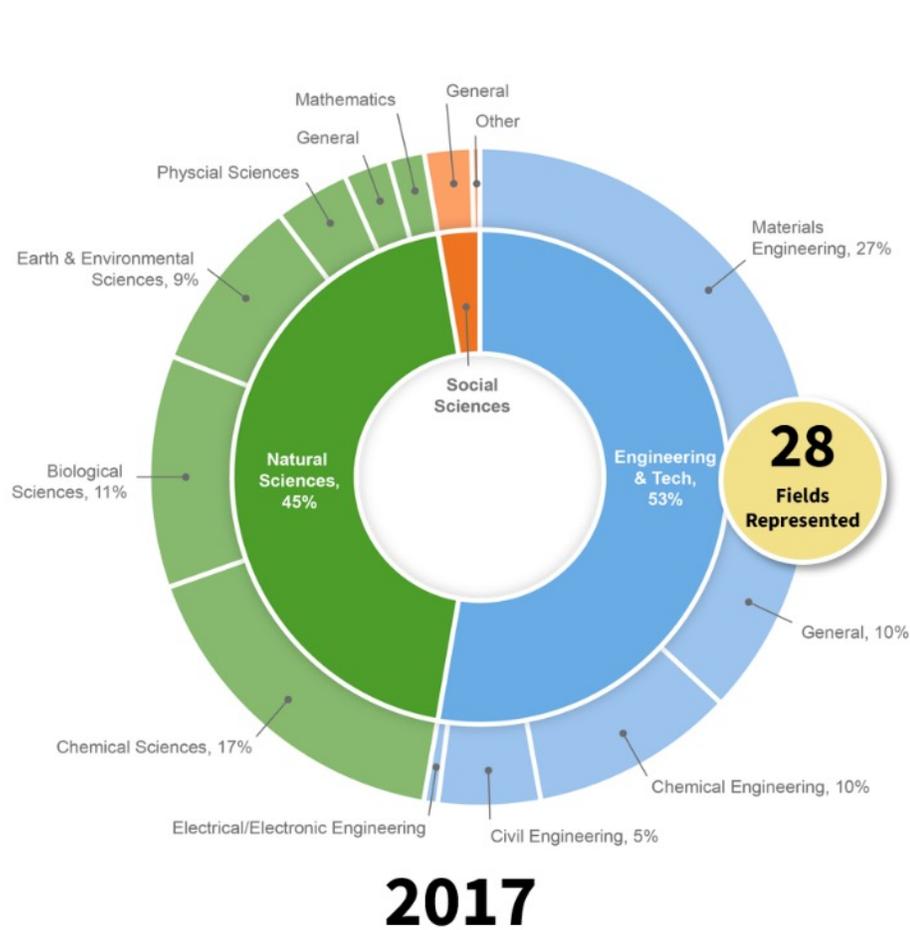


Enabled Utilities & Apps

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



Impact at OSC



Support Model



Discuss on Discourse

The Get Help category features user and admin questions and answers.
openondemand.org/discourse



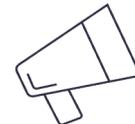
Slack Workspace

Communicate and collaborate with the project team and community members.
openondemand.org/slack



GitHub Documentation

Outlines installation steps, app guidelines, release notes, and more.
openondemand.org/docs



Constant Contact Newsletter

Subscribe to get notices about upcoming events, new releases and user stories.
openondemand.org/newsletter

openondemand.org/support

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 in the US



Open office hours

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

Asia Pacific-timed versions of these calls will be starting in 2H2025

GOOD Impact

ACCESS Enhances Bioscience Exploration: Introducing CryoSPARC on Anvil's HPC Resources

October 9, 2023

Oct. 9, 2023 — In the last couple of years, you may have seen some extremely detailed models of microscopically tiny things. [Read more...](#)

LUMI Supercomputer Sheds Light on Quantum Mechanics, Solar Subsurface Physics, and More

June 23, 2023

June 23, 2023 — The European scientific community has been able to utilize LUMI, Europe's fastest supercomputer, in full scale since December last year. [Read more...](#)

Deploying Open OnDemand with AWS ParallelCluster

February 21, 2023

Open OnDemand is an open-source High Performance Compute (HPC) portal that provides an easy way for system administrators to provide web-based access to HPC resources. [Read more...](#)

By Amazon Web Services

Accelerating Scientific Discovery at the University of Melbourne

January 16, 2023

4,500 researchers with ~1,500 different projects leverage HPC at the University of Melbourne, translating discovery into meaningful, practical impact to benefit all of us. [Read more...](#)

Sharing the wealth of HPC-driven apps with flexible as-a-service models

October 4, 2021

Growing numbers of IT shops are delivering high performance computing systems and the applications they support as on-demand services accessed via cloud connections. [Read more...](#)

HPC Open Source Web Portals now Offered to Enterprise by Nor-Tech

December 12, 2019

MINNEAPOLIS, Dec. 12, 2019 — Nor-Tech, experts on complete Open Source HPC technology solutions, just announced the first two enterprise deployments of Open OnDemand, which enables even those without HPC expertise to take advantage of the significant cost-savings of open source.

[Read more...](#)



Pilot Support Subscription

- Access to:
 - Priority support channels
 - Staff expertise
- Utilize best practices
- Contributes sustainable, ongoing funding for Open OnDemand
- Pilot will run through 2025
 - Additional services will be introduced as we learn from client experience



Benefits

- Priority Discourse channel
- Priority triage of Github issues
- Scheduled one-on-one office hours
- Invitations to special events at major conferences
- Participation in advisory working groups

openondemand.org/subscribe



Agenda

- About Open OnDemand
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Technical Update/Getting Involved

- 4.0 is available!
- Building a vibrant open source ecosystem
 - New role: Developer relations program manager
 - GitHub ondemand issues review
 - Increased engagement with community



4.0 Notable Features

- **Global batch connect items in ondemand.d files** – defining queues or node times in one place
- **Dismissible and required announcements** – configurable alerts
- **System status page** – cluster status and details
- **File editor refreshed** – community driven UI improvements

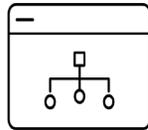


Development Planning



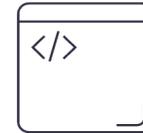
Identify

Issues are reported in
Discourse or GitHub



Prioritize

Issues are analyzed and
prioritized



Execute

Developers from the
community or core team
pick up issues



Release

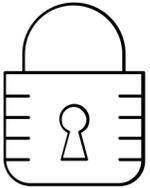
Changes are reviewed and
included in the next
release



openondemand.org/issues

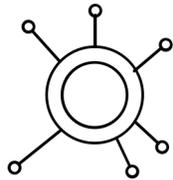
Issue Prioritizing

Issues are prioritized by user impact, development effort needed, and alignment with other enhancements in the release.



Security Issue

Patches are developed quickly for high priority issues.



Bug

Unexpected or unintended behaviors are the next priority and addressed according to importance.



New Features

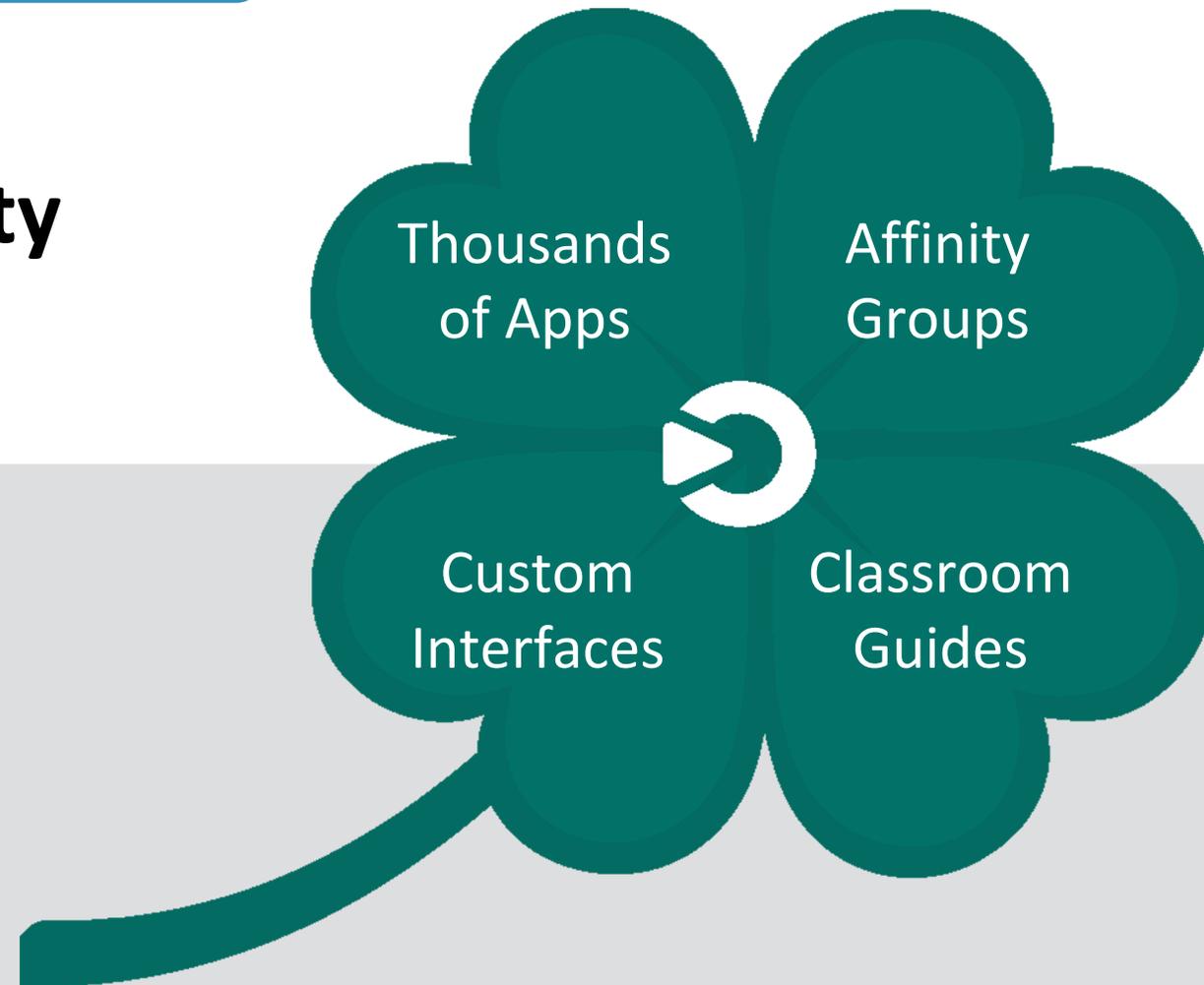
We are continually enhancing our infrastructure, integrations, and ux based on the needs of our community.



GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

Domain solutions for the sciences,
engineering, & education



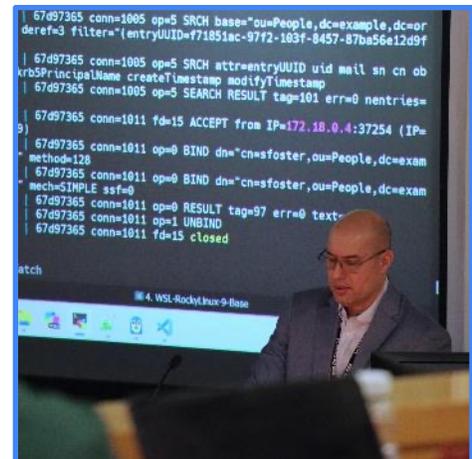
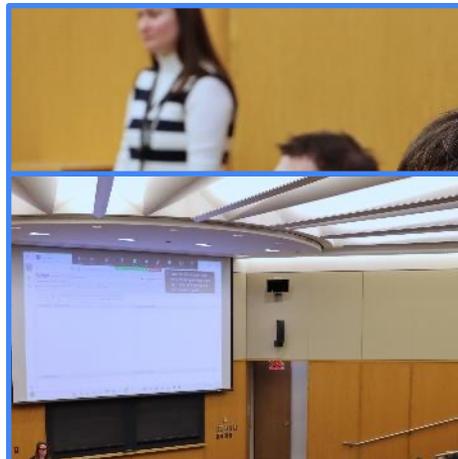
Global Open OnDemand Conference 2025

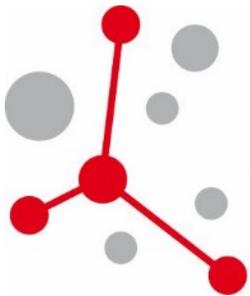
We had

GO  D

fun

Boston, MA





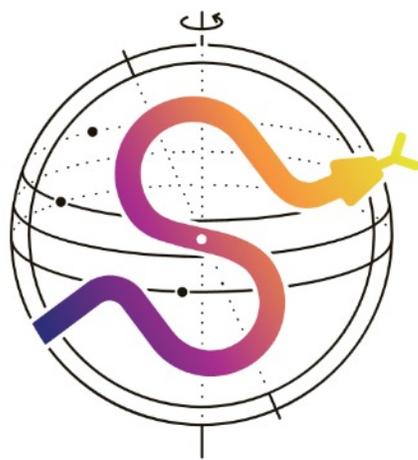
ISC High Performance
The HPC Event.

SGX3

|SGCI|

The logo for PEARC25 features a cluster of teal nodes connected by lines, with a power button icon integrated into the design.

PEARC25
THE POWER OF
COLLABORATION



SciPy
2025

Scientific Computing with Python
July 7-13, Tacoma, WA



SC25

St. Louis, MO | **hpc**
ignites.

Thank You!

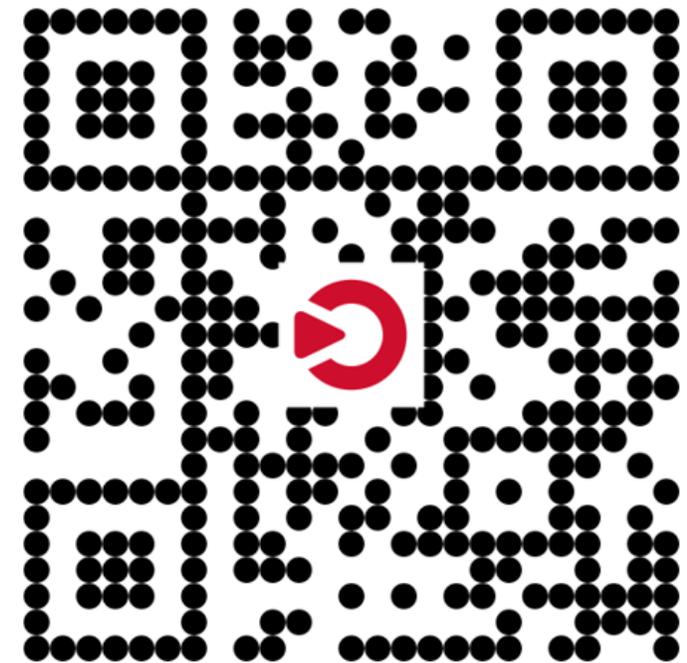
**Please take a moment to sign up for
our mailing list for future updates!**

Julie Ma

jma@openondemand.org

Emily Moffat Sadeghi

emoffat@openondemand.org



openondemand.org/signup

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GOOD

BYE

FOR NOW