OPEN OnDemand

SC24 BoF
User Group Meeting

Alan Chalker
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Ohio Supercomputer Center | University at Buffalo Center for Computational Research | TEXAS A&M UNIVERSITY | MGHPCC Massachusetts Green High Performance Computing Center | Virginia Tech | University of Colorado Boulder | University of Maryland

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openondemand.org/sc24

Agenda

About Open OnDemand

Technical Updates

Key Items of Note

Open Floor Discussion

Quick Survey

OPEN OnDemand

Go to

www.menti.com

Enter the code

4457 0619

Or use QR code

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

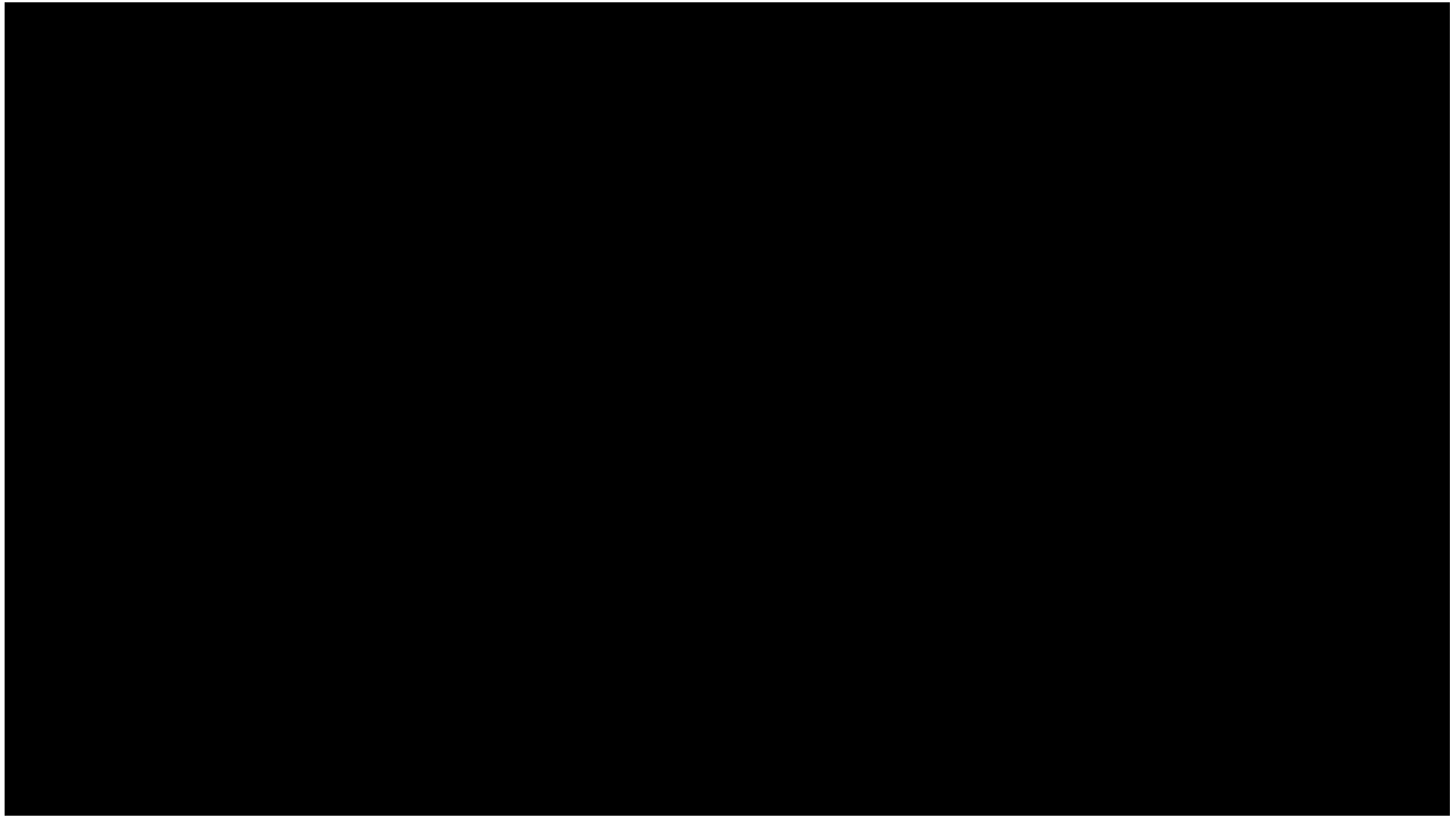
Start computing immediately. A simple interface makes Open OnDemand easy to learn and use.

Compatible with any device

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

openondemand.org/run

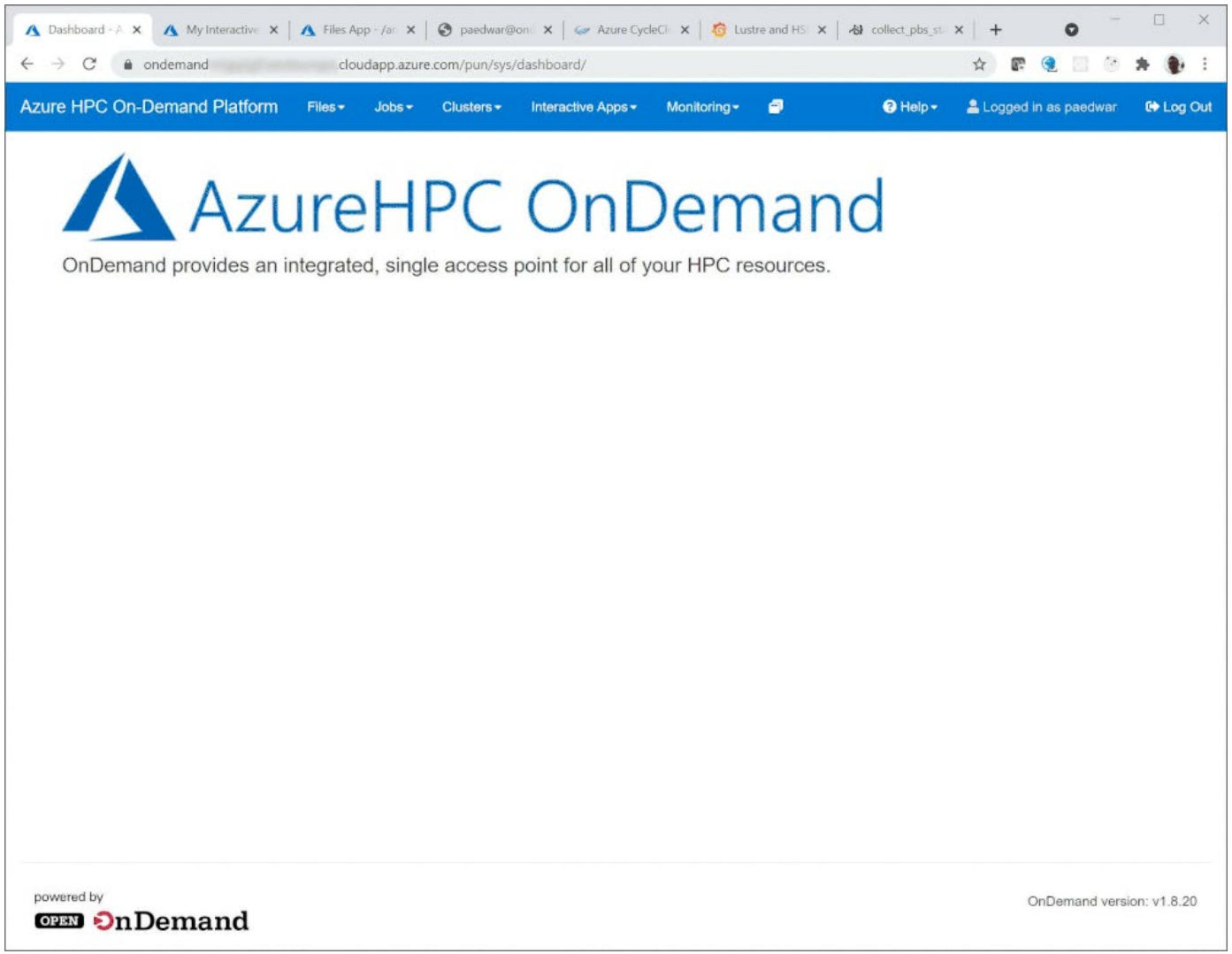
Any Challenge, Every Solution



openondemand.org/anychallenge

Commercial Cloud

OPEN OnDemand



aws

openondemand.org/aws

Microsoft Azure

openondemand.org/azure

Google Cloud

openondemand.org/gcp

NSF ACCESS

OPEN OnDemand

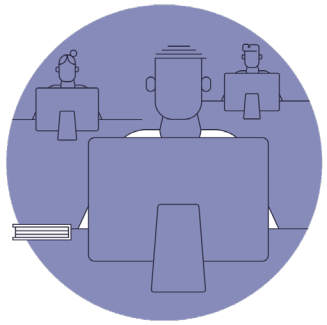
Georgia Tech	Johns Hopkins University	Texas A&M	Purdue University	PSC Pittsburgh Supercomputing Center
Hive	Rockfish	ACES FASTER LAUNCH	Anvil	Bridges-2 & Neocortex

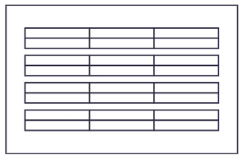
University of Kentucky	NCSA	Stony Brook University	SDSC San Diego Supercomputer Center
KyRIC	Delta	Ookami	Expanse

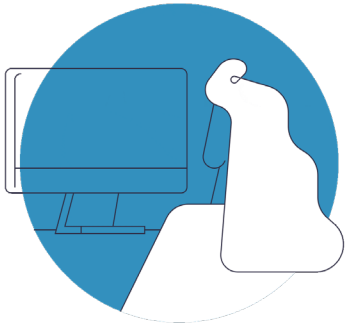
openondemand.org/access

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

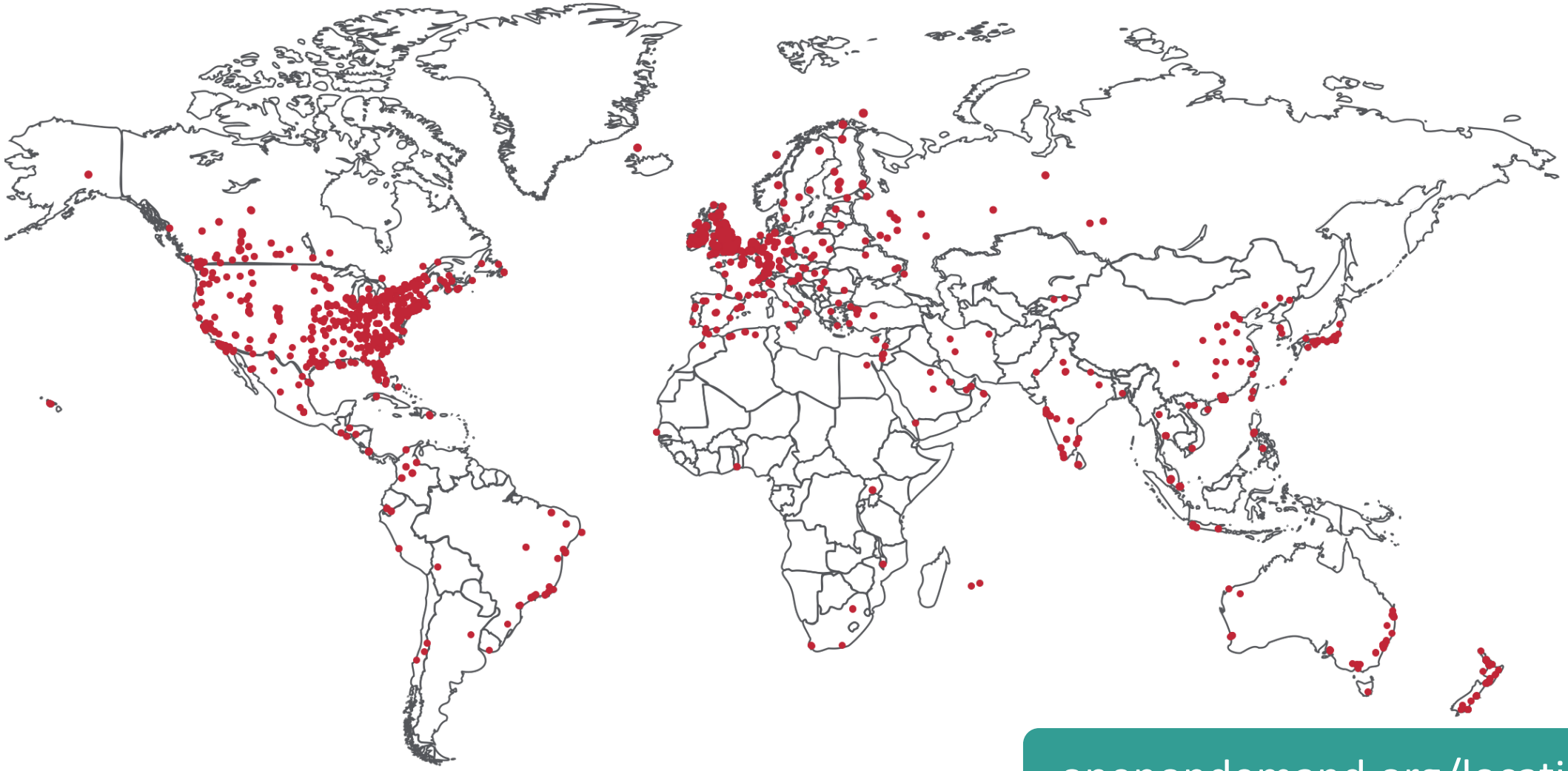
Create and deploy your own applications to meet your users' unique needs.

openondemand.org/install

Deployed Worldwide

OPEN OnDemand

100+ Countries | 2,100+ Organizations



openondemand.org/locations

Example Deployments

OPEN OnDemand

Nonprofit / Research centers

Cincinnati Children's — changing the outcome together
RIKEN Center for Computational Science (R-CCS)
PSC — Pittsburgh Supercomputing Center
CSC
SwRI — Southwest Research Institute
Seattle Children's — Hospital · Research · Foundation

International academia

University of Manitoba
TRUBA — Turkish Science e-Infrastructure
Instituut-Lorentz
University of Cambridge
UNSW Sydney
Universiti Malaya

Government

Federal Reserve Bank of Kansas City
INL — Idaho National Laboratory
South Florida Water Management District
Berkeley Lab
Pacific Northwest National Laboratory
Federal Reserve Bank of San Francisco

Minority-serving institutions

Rutgers — The State University of New Jersey
NM State University
UTSA — The University of Texas at San Antonio™
Texas Tech University
University of Maryland
The University of Arizona

Private academia

Harvard University
Caltech
Yale
Duke University
Princeton University
Stanford University

Public academia

University of Oregon
University of Colorado Boulder
University of Vermont
UAB — The University of Alabama at Birmingham
UF — University of Florida
Virginia Tech

Industry

ALTO Neuroscience
NOR-TECH — People Friendly Technology
SpaceX
NVIDIA
CORVID Cyberdefense
Microway

openondemand.org/orgs

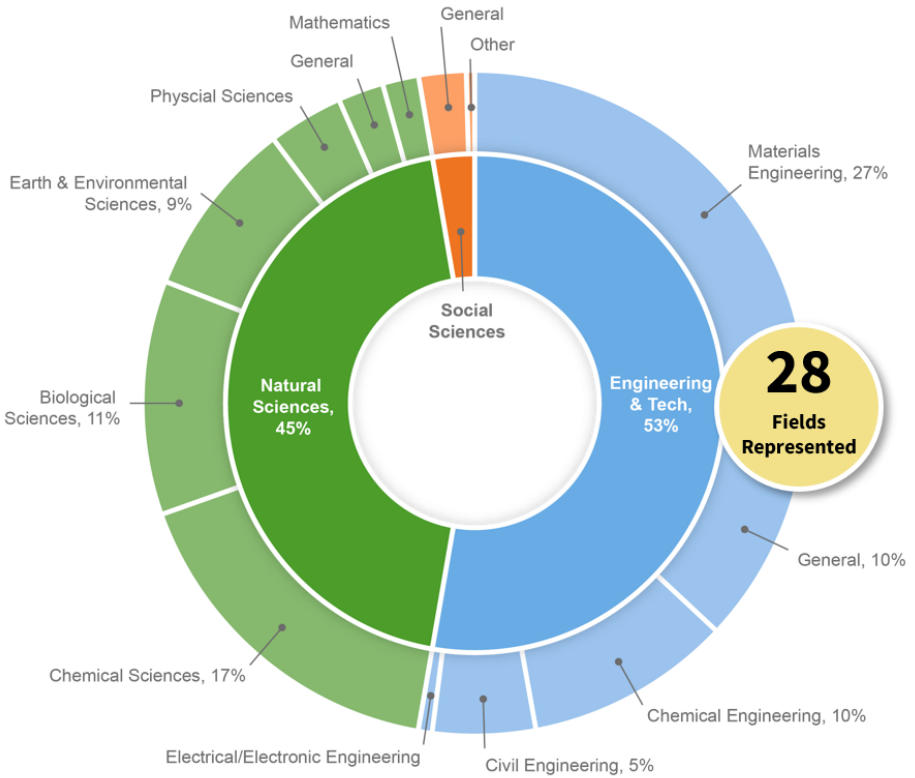
Enabled Utilities & Apps

OPEN OnDemand

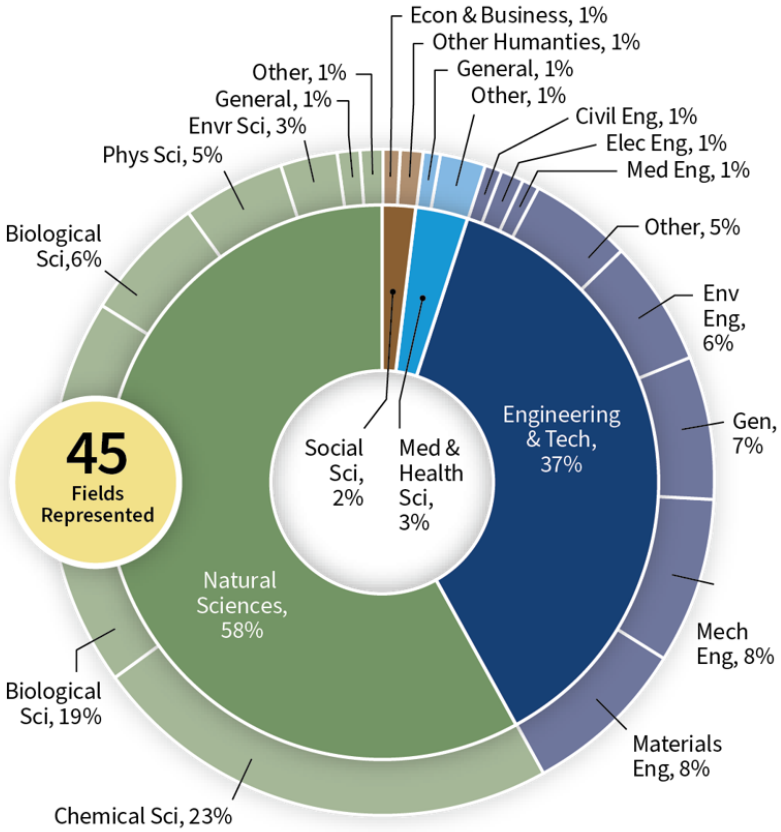
Abaqus	AMDuProf	ANSYS	Arm	BEAST 2	Blender	CHIMERA	COMSOL	Coot	DeepLabCut
Eclipse	Firefox	Galaxy	GaussView	Grace	GSEA	IDL	jupyter	LS-DYNA	Lumerical
Maestro	Mathematica	MATLAB	Maya	Meshroom	MRIcron	NetLogo	Nsight Eclipse	Octave	OVITO
ParaView	PseudoFuN	PSPP	PyCharm	PyMOL	QGIS	RELION	RStudio	Schrodinger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

openondemand.org/apps

Impact at OSC



2017



2023

openondemand.org/fields

Agenda

~~About Open OnDemand~~

Technical Updates

Key Items of Note

Open Floor Discussion

In Case You Missed It

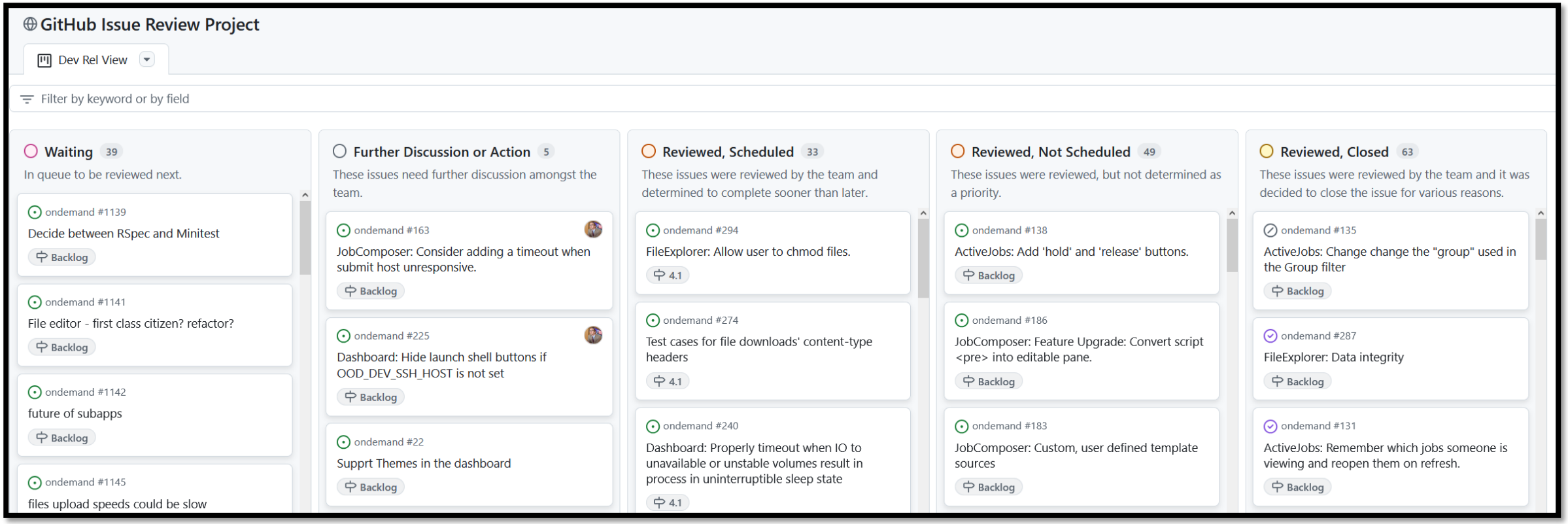
One release and 8 subsequent patches – 3.1.0 to 3.1.10

Improve architecture diagrams – better equip community

GitHub ondemand review effort – cleaning up our issues

openondemand.org/releasenotes

In Case You Missed It



Reviewed over 150 issues
1/3 of our main repository

openondemand.org/issues

Community Collaborations

OPEN OnDemand

globus

aws

doitnow HPC Services

Microsoft Azure

CSC

INL Idaho National Laboratory

MathWorks®

HARVARD UNIVERSITY

omnibond®

NVIDIA®

CCMNet

openondemand.org/our-partners

4.0 Updates

Global batch connect items in ondemand.d files – defining queues or node times in one place

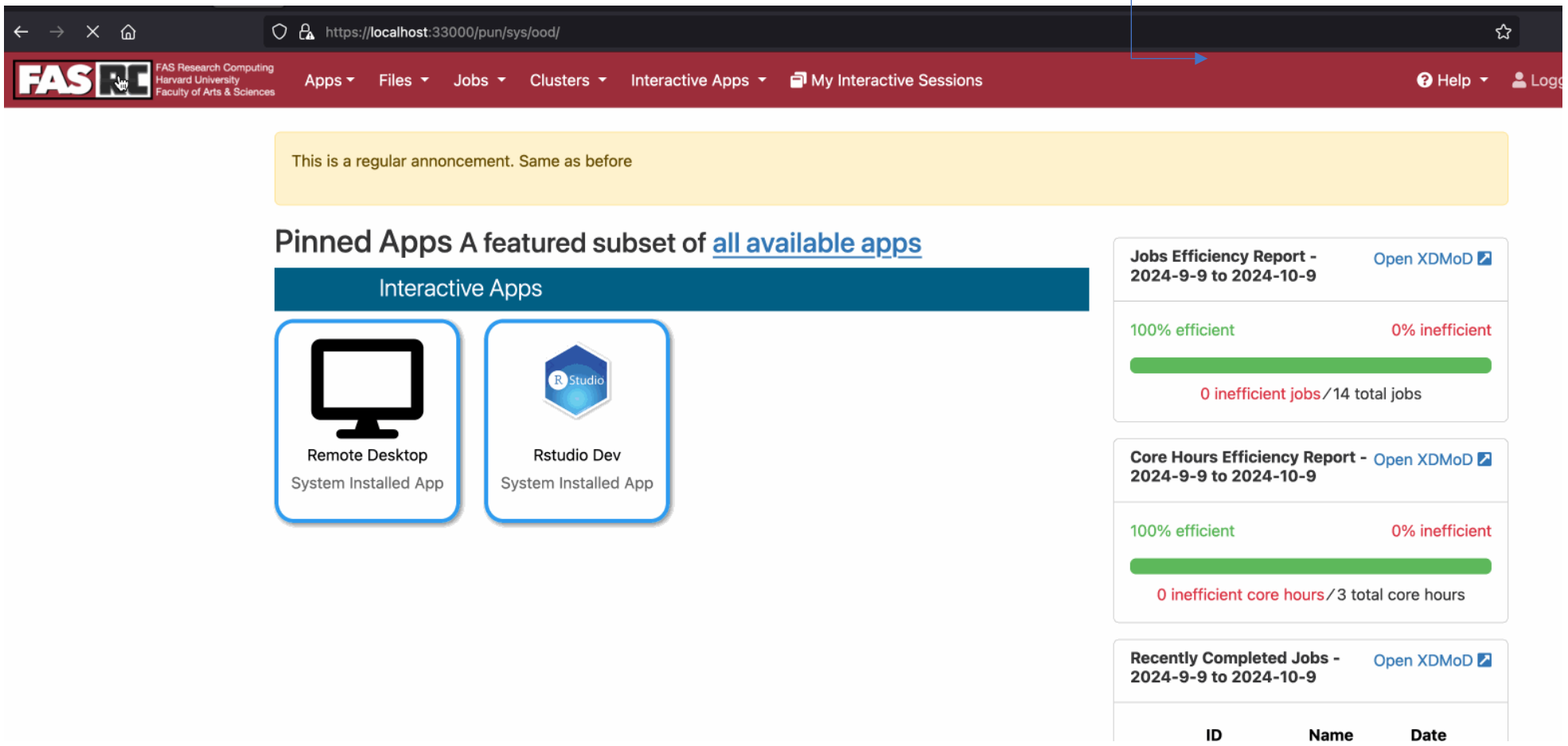
Dismissible and required announcements – configurable alerts

System status page – cluster status and details

File editor refreshed – community driven UI improvements

openondemand.org/releasenotes

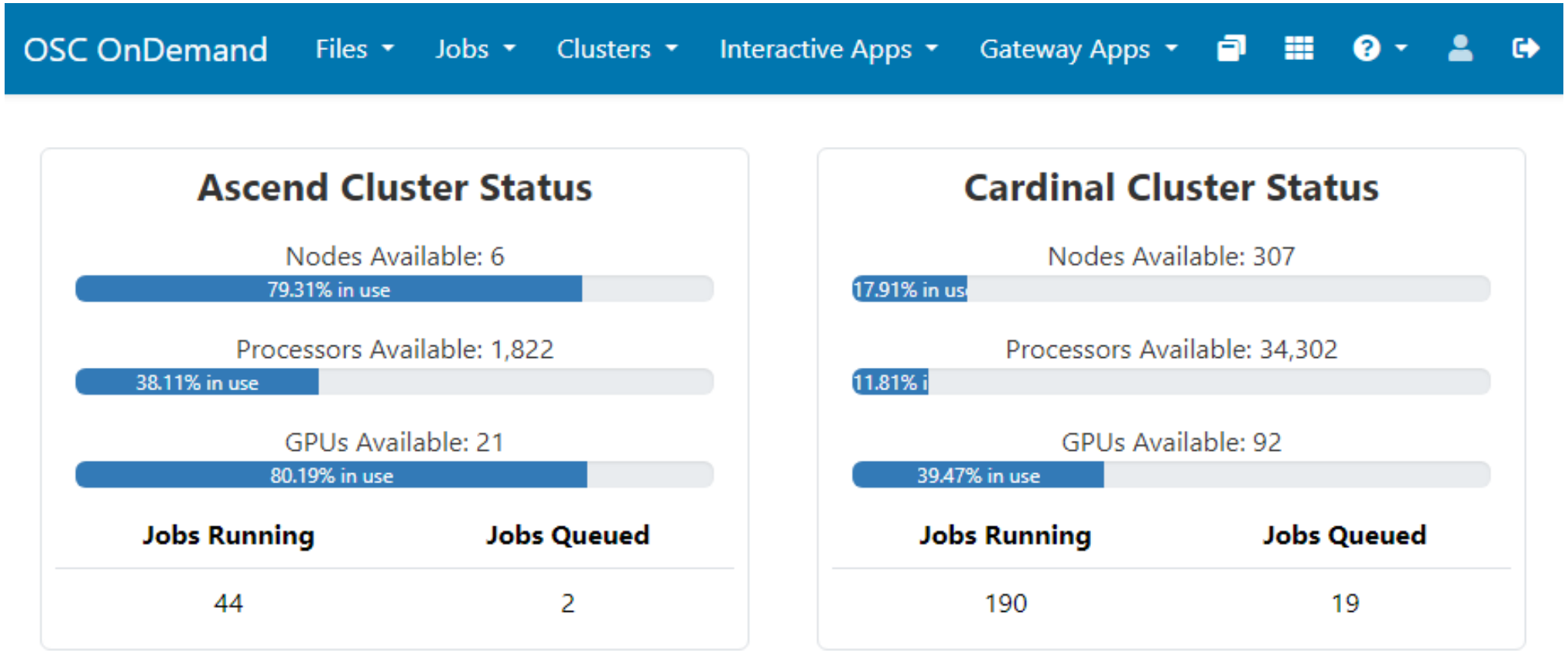
Dismissible and Required Alerts



Open to how this can be improved or expanded

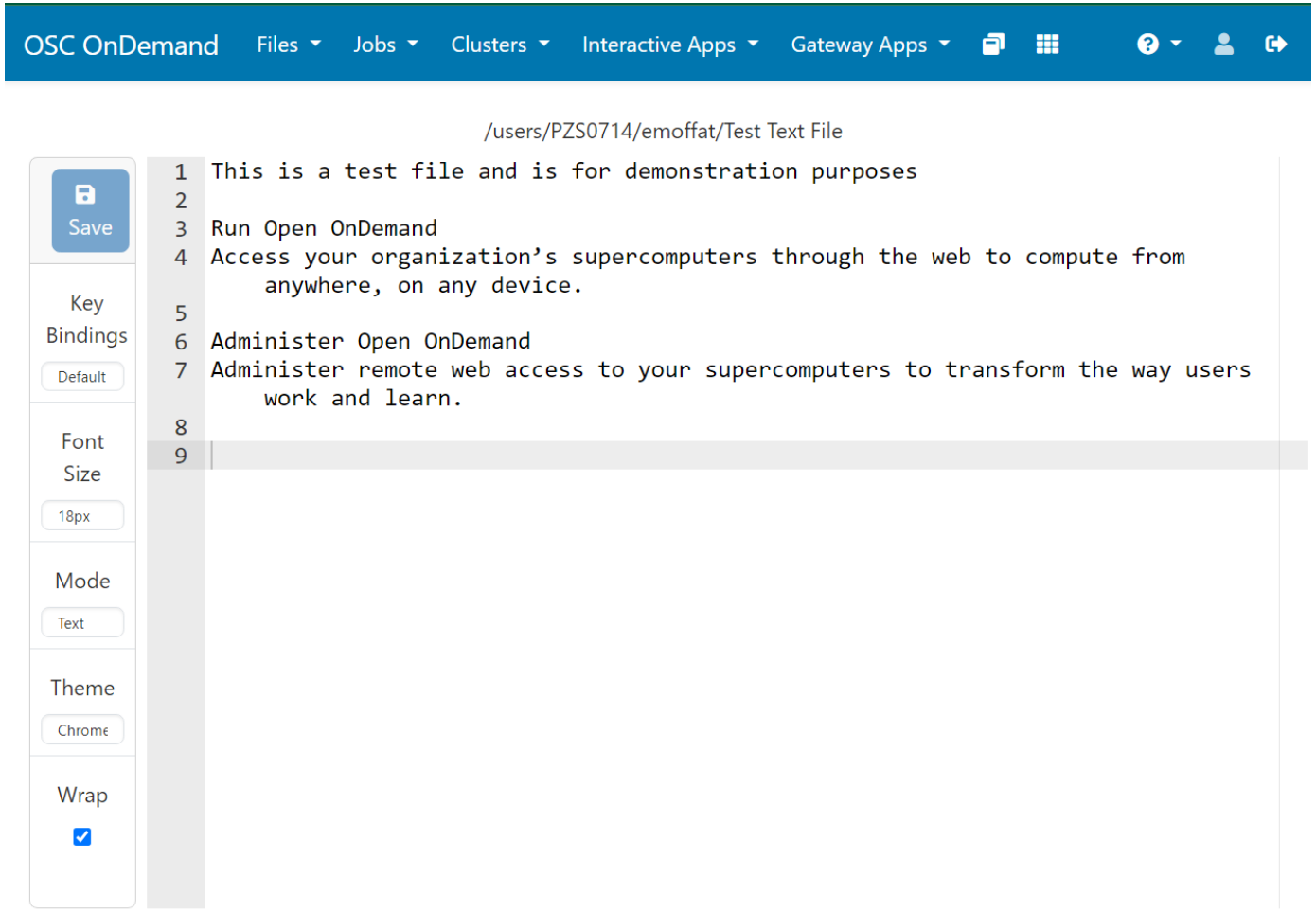
openondemand.org/releasenotes

System Status Page



openondemand.org/releasenotes

File Editor



openondemand.org/releasenotes

4.0 Breaking Changes

NavConfig file is being removed – simpler configuration

Initializers need updating – Rails prompted change

Whitelist and blacklists are being replaced – replaced by inclusive allowlist and blocklist configurations

See "Deprecations" in 3.0 release notes for more information

openondemand.org/releasenotes

Community Contributions

OPEN OnDemand

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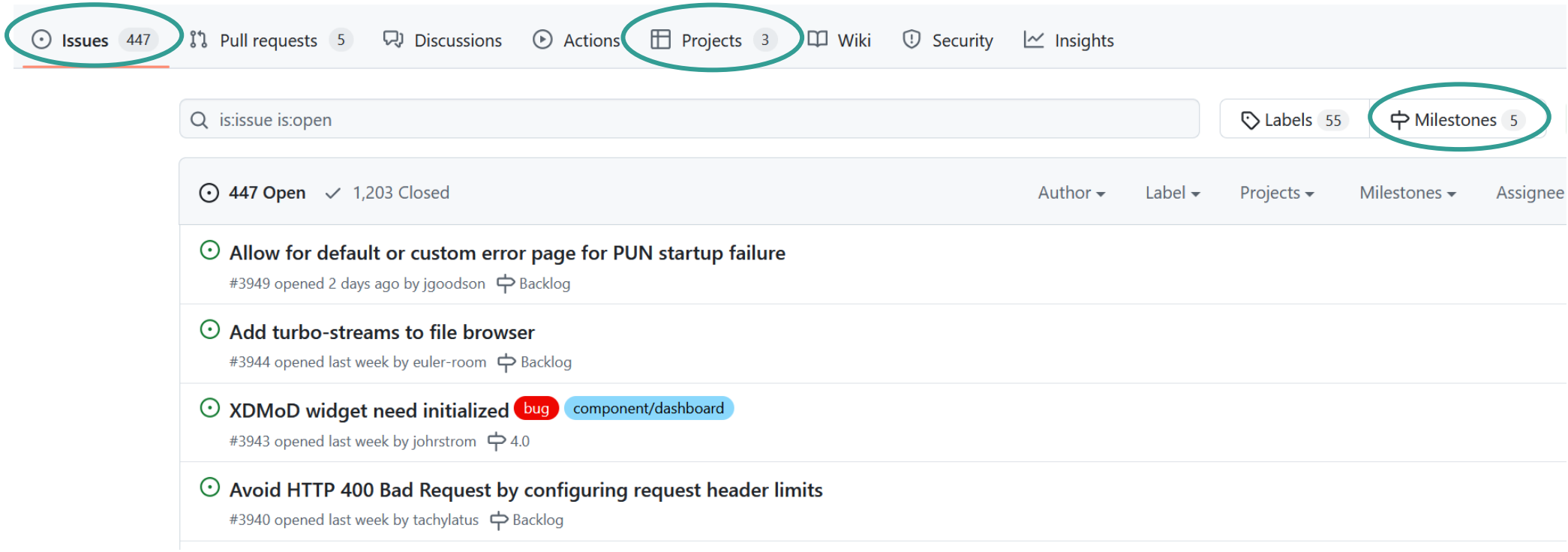
View the Action

OPEN OnDemand

GitHub Main Repository: ondemand



openondemand.org/github

Agenda

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~~Technical Update~~

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HPCwire Award

THANK YOU to all who use OpenOnDemand and to all who voted in the HPCwire Readers' Choice!

openondemand.org/hpcwire

GOOD Conference

OPEN OnDemand

GOOD

The Inaugural Conference for the Global Open OnDemand (GOOD) Community

Explore, Share and Shape the Future of Open OnDemand

Attend live keynotes, talks, BoFs and tutorials, and get to know fellow members of the Open OnDemand Community

Harvard University | March 18-20, 2025

openondemand.org/good

GOOD Conference

OPEN OnDemand

SC24 Incentive!

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Submit your preliminary proposal* by November 22, and receive a limited-edition Open OnDemand ballcap at the GOOD25 conference!

*proposals can be modified/updated up until the December 8 submission deadline.

openondemand.org/good

Branded Merchandise

OpenOnDemand - 20 oz Water Bottle
$19.99

OpenOnDemand - Eco-Friendly Cotton Tote
$20.49

OpenOnDemand - Men's Premium T-Shirt
$26.99

OpenOnDemand - Women's Premium T-Shirt
$26.99

OpenOnDemand - Adjustable Apron
$21.49

OpenOnDemand - Unisex Baseball T-Shirt
$29.49

OpenOnDemand - Camper Mug
$18.99

OpenOnDemand - Tote Bag
$16.99

OpenOnDemand - Women's T-Shirt
$22.99

OpenOnDemand - Men's Hoodie
$40.49

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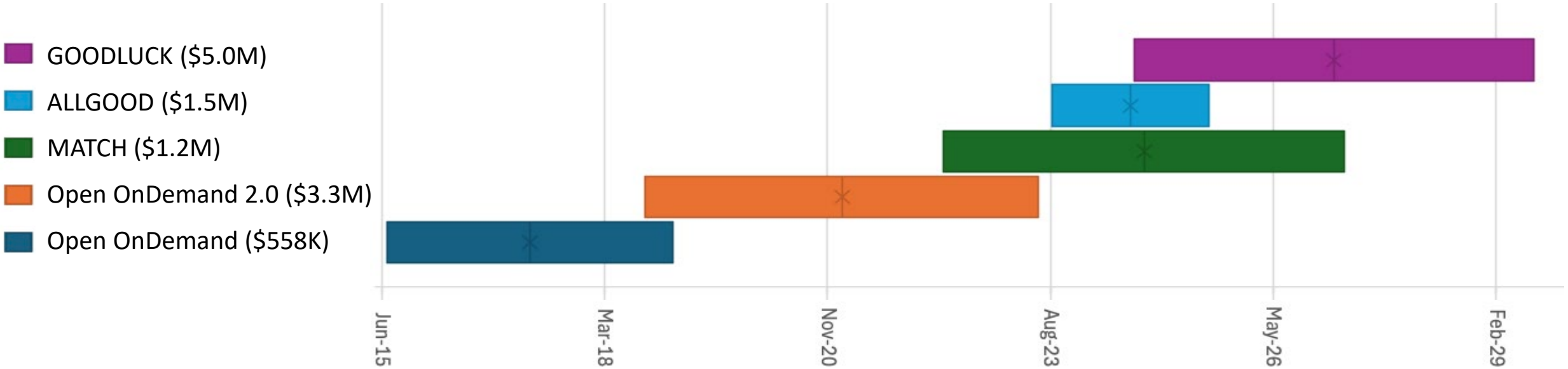
NSF Funding History



COLLABORATORS

University at Buffalo

University of Colorado Boulder

Texas A&M University

Virginia Tech

MGHPCC Massachusetts Green High Performance Computing Center

University of Maryland

openondemand.org/history

Pilot Support Subscription

- Available January 2025
- Access to:
  - Additional support channels
  - Staff expertise
- Utilize best practices
- Contributes sustainable, ongoing support 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
- Individual office hours
- Invitations to special events at major conferences
- Participation in advisory working groups

openondemand.org/subscribe

Tell Us About Yourself!

OPEN OnDemand

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

Emily Moffat Sadeghi
emoffat@openondemand.org

Julie Ma
jma@mghpcc.org

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Thank You!

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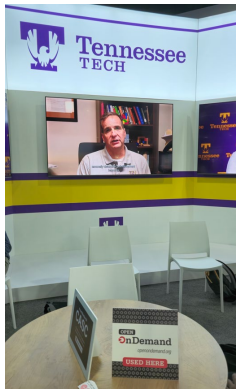

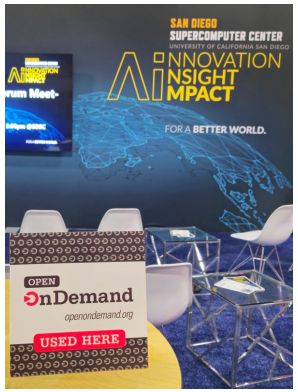

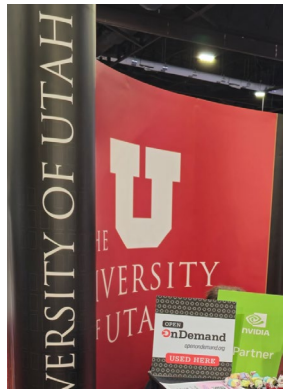

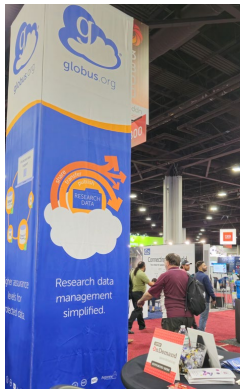

Questions/Comments

Ask at the microphone or post on the Menti page!

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4457 0619

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