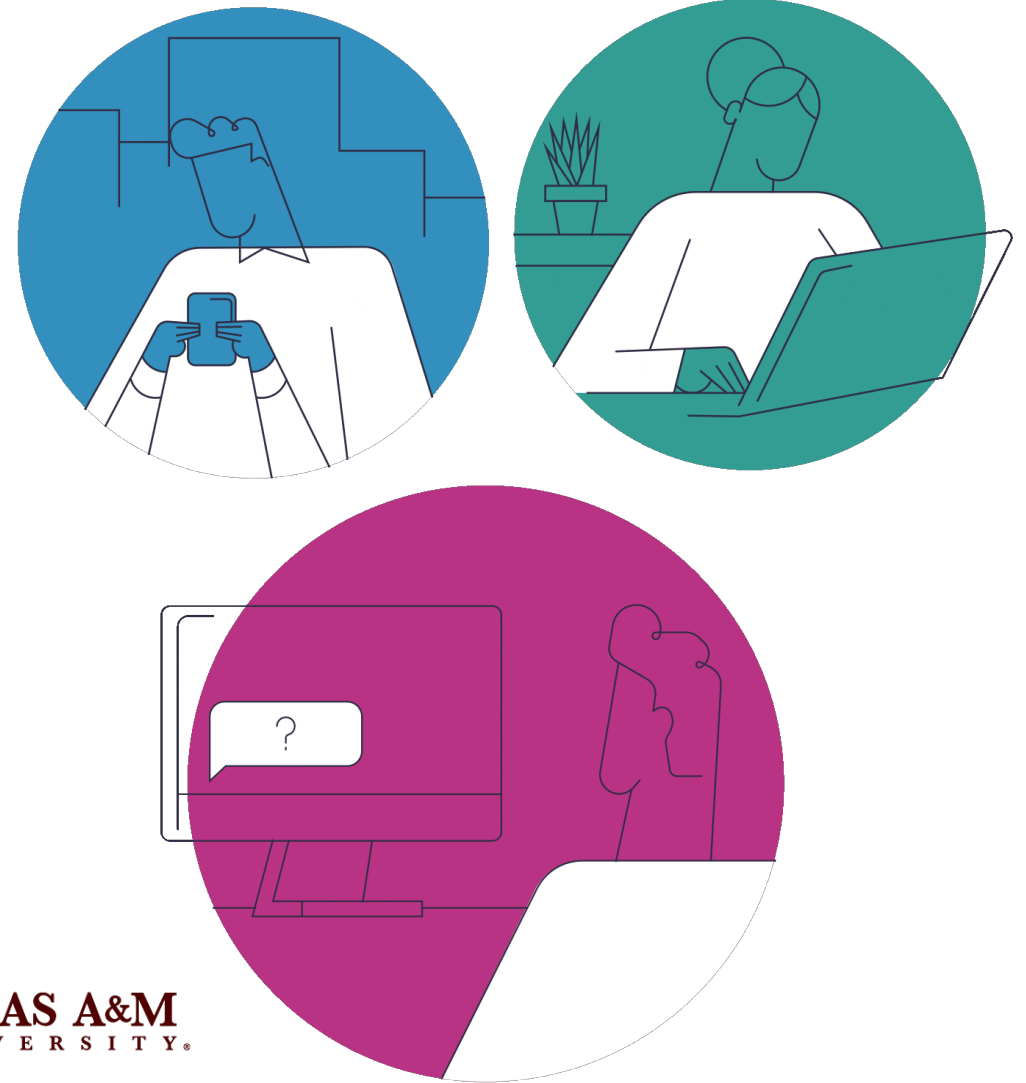


Connecting Computing Power with Powerful Minds

Alan Chalker



This work is supported by the National Science Foundation of the United States
under the awards 1534949, 1835725, 2138286, 2303692, and 2411375-7

openondemand.org/sc25

Agenda

Open OnDemand 101

Example Case Studies

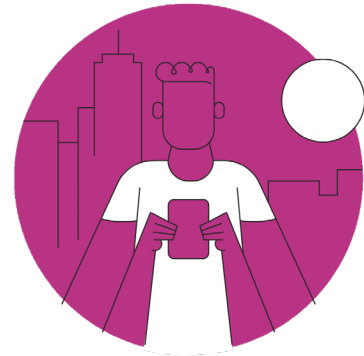
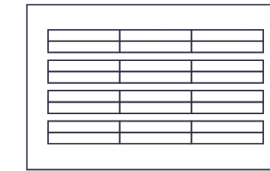
Community Support

Live Demo



Run Open OnDemand

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



Zero installation

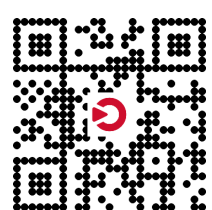
Run Open OnDemand entirely in your browser. No client software installation required.

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



NSF ACCESS

OPEN  nDemand



Hive



Rockfish



ACES &
FASTER



Anvil



Bridges-2 &
Neocortex



KyRIC



Delta



Ookami



Expanse

openondemand.org/access







National AI Resources

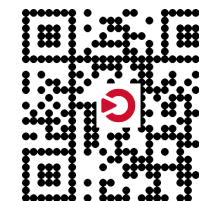
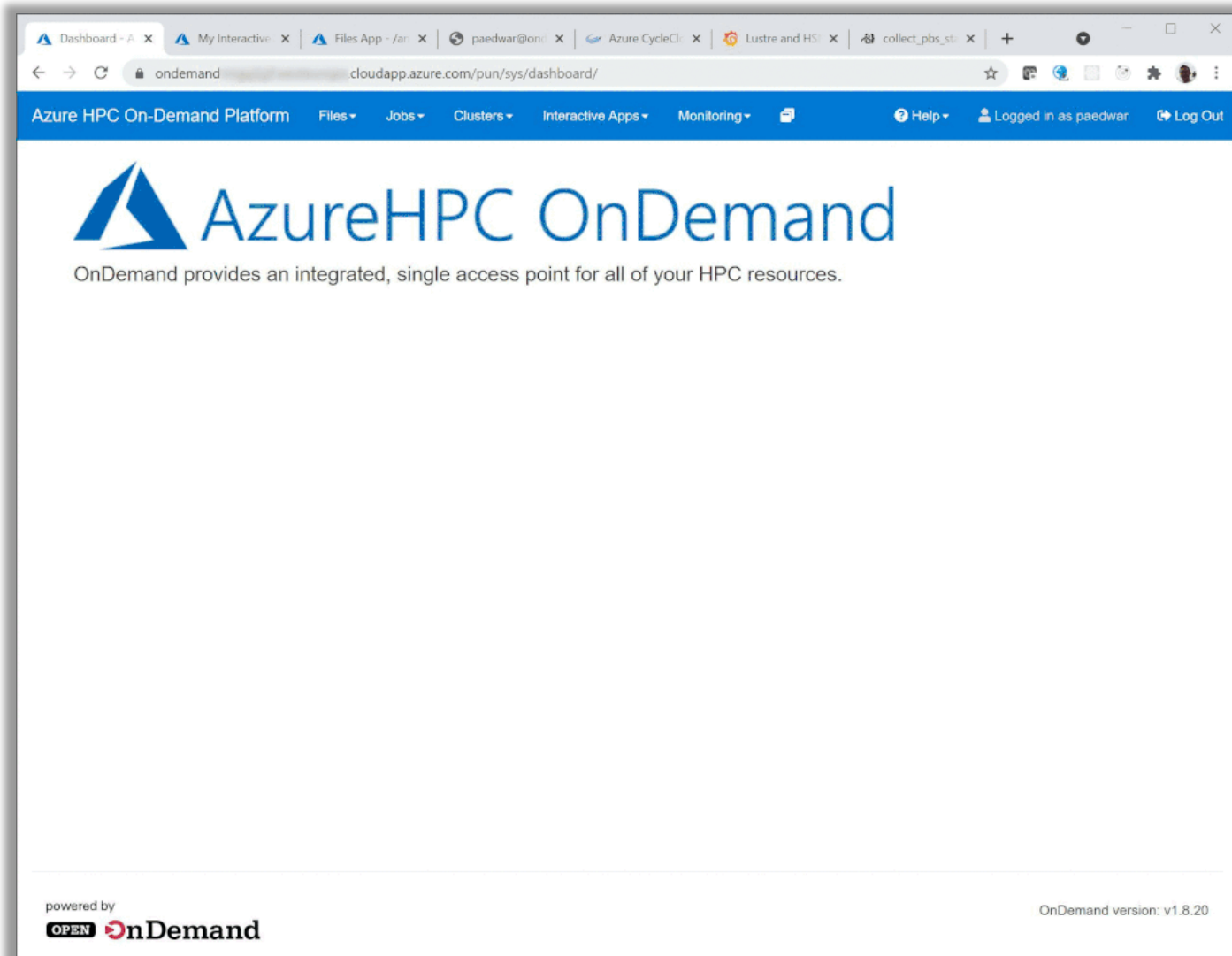
NAIRR Pilot

National Artificial Intelligence
Research Resource Pilot

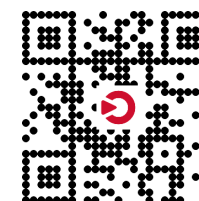
	Indiana Jetstream2 GPU	▼
	NCSA Delta GPU	▼
	NCSA DeltaAI	▼
	PSC Bridges-2 Extreme Memory (PSC Bridges-2 EM)	▼
	PSC Bridges-2 GPU (PSC Bridges-2 GPU)	▼
	PSC Bridges-2 Regular Memory (PSC Bridges-2 RM)	▼
	Purdue Anvil AI	▼
	Purdue Anvil CPU	▼
	Purdue Anvil GPU	▼
	SDSC Expanse CPU	▼
	SDSC Expanse GPU	▼
	PSC Neocortex CS-2	▼
	SDSC Voyager (Habana Training and Inference Processor based AI System)	▼
	TAMU ACES	▼

	Amazon Web Services	▼
	Cerebras Wafer-Scale Engine 2 (CS-2) AI Accelerator	▼
	DOE Argonne National Laboratory AI Testbed	▼
	Google Cloud Platform	▼
	Groq LPU Inference Engine	▼
	Microsoft Azure	▼
	NVIDIA DGX Cloud	▼
	SambaNova Cloud (API Services for Llama, DeepSeek, Tulu, Qwen, etc.)	▼
	SambaNova Suite (LLMOps platform, fine-tuning, inference and app dev kits)	▼
	TACC Frontera	▼
	TACC Frontera GPU	▼
	TACC Lonestar6	▼
	TACC Lonestar6-GPU	▼
	TACC Vista (NVIDIA GH100 Grace Hopper Superchip)	▼

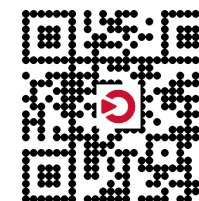
Commercial Cloud



openondemand.org/aws



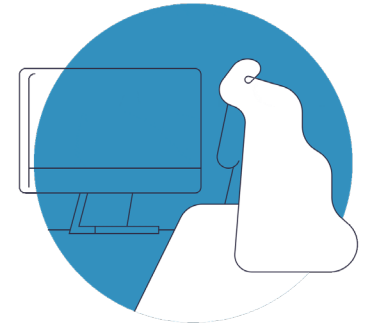
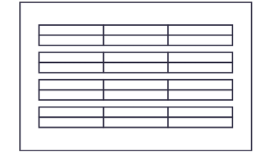
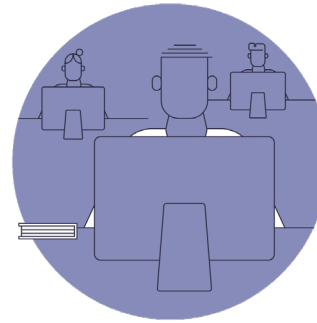
openondemand.org/azure



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

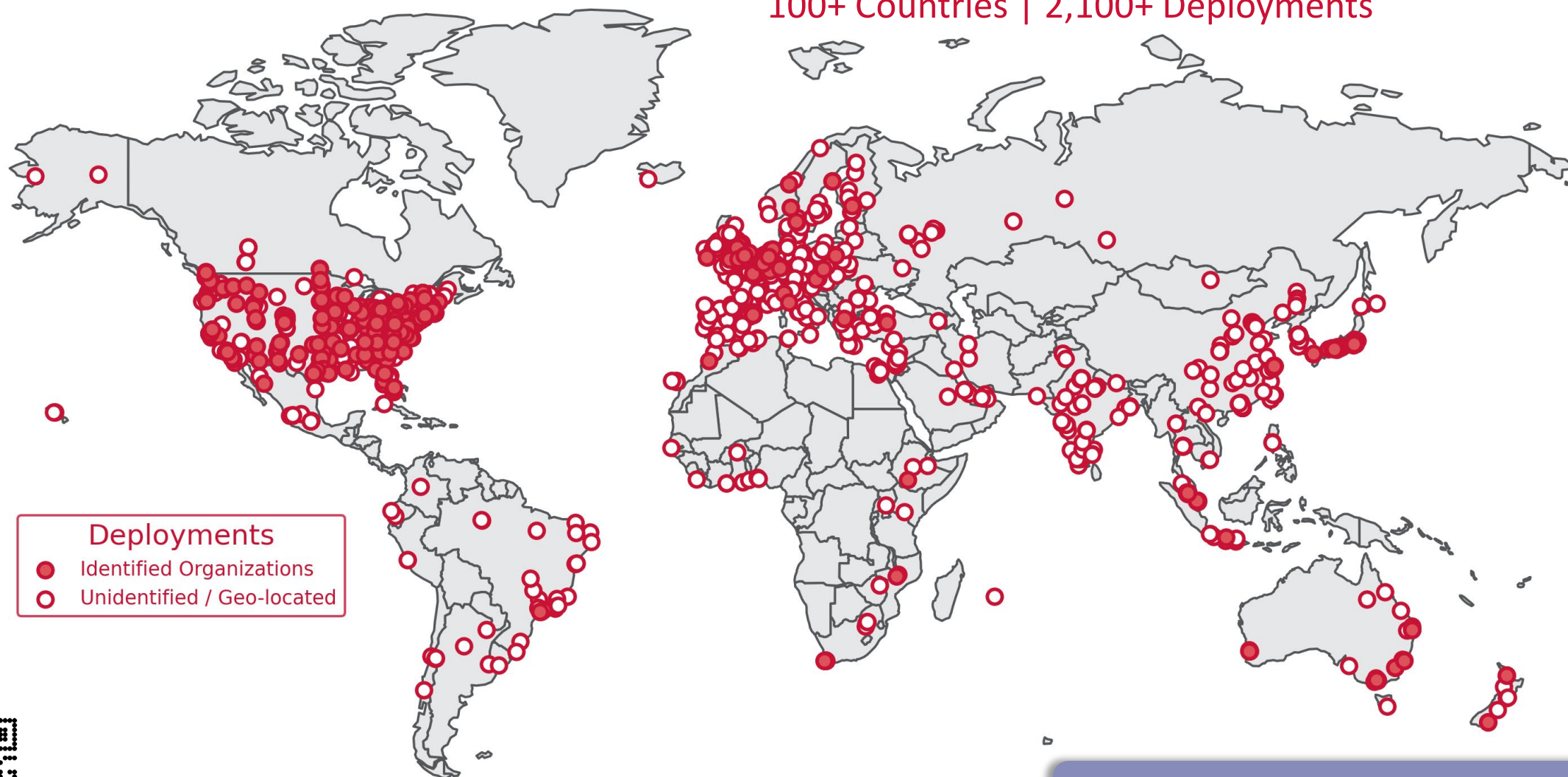
Create and deploy your own applications to meet your users' unique needs.



openondemand.org/install

Deployed Worldwide

100+ Countries | 2,100+ Deployments



openondemand.org/locations

Example Deployments

Nonprofit / Research centers



International academia



Government



Minority-serving institutions



Check the full list of identified organizations online and let us know if yours is missing.

Private academia



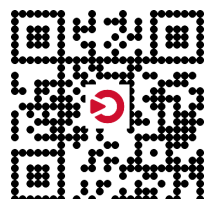
Public academia



Industry



openondemand.org/orgs



Sample Deployments

OSC OnDemand

Files

Jobs

Clusters

Interactive Apps


My Interactive Sessions

All Apps

Help


Logged in as emoffat

Log Out




OnDemand provides an integrated, single access point for all of your HPC resources.


Recently Used Apps




Code Server
System Installed App



Blender
System Installed App



Ascend Desktop
System Installed App



RStudio Server
System Installed App

Message of the Day

2025-05-15 - Instability on Clusters after May 13 Downtime

We've been experiencing some instability on the clusters (particularly Cardinal and Ascend) following the recent May 13 downtime, especially with parallel job processing. If you notice any unusual behavior with your jobs, please contact OSC Help.

2025-04-16 - Upcoming OS Migration May Impact Classroom Services

We will perform an OS migration that will affect our classroom services. If you plan to run classroom projects at OSC using the Jupyter or RStudio app this summer, please contact oschelp@osc.edu as soon as possible so we can plan accordingly.

2024-07-22 - Change is Coming!

Later this fall, OSC will be introducing a major change to the current process clients use to get help. We will be rolling out a new web-based system for clients to manage and review open cases with the service desk. More information will be forthcoming over the next few months, so keep an eye out for messages on various OSC communication channels, as well as at https://www.osc.edu/service_portal_deployment.

Looking for a classroom?

Go to class.osc.edu

Jobs Efficiency Report - 2025-4-28 to 2025-5-28 [Open XDMoD](#)

No data available.

Core Hours Efficiency Report - 2025-4-28 to 2025-5-28 [Open XDMoD](#)

No data available.

Recently Completed Jobs - 2025-4-28 to 2025-5-28 [Open XDMoD](#)

ID	Name	Date
No data available.		

OnDemand version: 4.0.3

openondemand.org/custom


Sample Deployments

OSC OnDemand

Files

Jobs

Clusters



OnDemand

System

Message

2025-05

We've been ex
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contact OSC H

2025-04

Services

We will perfor
OSC using the
plan accordin

2024-07

Later this fall,
rolling out a n
information w
communicatio

Research
Technologies
—
ARIZONA HPC Systems

Apps

Files

Jobs

Clusters

Interactive Apps

My Interactive Sessions

Help

Logged in as

Log Out


Quota limit warning for [redacted]

Reload page to see updated quota information. Quota information is updated every few minutes.

Using 428 GB of quota 500 GB . Consider deleting or archiving files to free up disk space.


85%

OPEN


 nDemand

OnDemand provides an integrated, single access point for all of your HPC resources.


Pinned Apps A featured subset of [all available apps](#)




Abaqus GUI
System Installed App




Ansys Workbench GUI
System Installed App




Mathematica GUI
System Installed App



Matlab GUI
System Installed App



Stata GUI
System Installed App



VSCode GUI
System Installed App

Recently Completed Jobs - 2025-6-17 to 2025-7-17

[Open XDMoD](#)



ID	Name	Date
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OnDemand version: 4.0.3

openondemand.org/custom

Sample Deployments

DEAC OnDemand Files Jobs Clusters Interactive Apps My Interactive Sessions Help Logged in as anderss Log Out




WAKE FOREST
UNIVERSITY
Information Systems


DEAC OnDemand is an integrated, single access point for all of your HPC resources.

Pinned Apps


DEAC Apps




Avogadro
System Installed App




Blender
System Installed App




Code
System Installed App




DBeaver
System Installed App




FastQC
System Installed App



G-PhoCS
System Installed App



GaussView
System Installed App




Jupyter Notebook
System Installed App

Message of the Day

2025-01-13 FDOC Spring 2025
Happy Spring FDOC from the HPC Team! DEAC OnDemand will be used in 4 classes this semester, where students will be able to carry out their coursework on the DEAC Cluster.

2024-09-03 Fall 2024 Pilot Phase
Open OnDemand now in its pilot phase during the Fall 2024 semester. Selected user groups will be able to leverage OOD and the DEAC Cluster for their research and classroom work.

2024-07-15 Entering OOD Phase 1
The DEAC Cluster is now entering Phase 1 of its Open OnDemand deployment. This milestone was achieved after the successfully submitting the first interactive job through the OOD interface.


powered by
OPEN  nDemand

OnDemand version: 3.1.11

Research Technologies - ARIZONA HPC Systems


Apps Files

Quota limit
Using 428 GB of


OPEN  nDemand

OnDemand prov

Pinned Ap



Abaqus GUI
System Installed



Stata GUI
System Installed

Message

2025-05
We've been ex
May 13 downt
contact OSC H

2025-04
Services
We will perfor
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plan accordi

2024-07
Later this fall,
rolling out a n
information w
communicatio

Recently Compl

ID	Name	Date
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openondemand.org/custom


Sample Deployments

OSC OnDemand

Files

Jobs

Clusters



OnDemand

System

Message

2025-05-13

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2025-04-13

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2024-07-13

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communicatio...


Research Technologies
ARIZONA HPC Systems

Apps


Files

Quota limit

Using 428 GB of




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OnDemand prov

Pinned Apps



Abaqus GUI

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Stata GUI

System Installed

DEAC OnDemand

Files

Jobs

Clusters



DEAC OnDemand

Pinned Apps

DEAC Apps



Avogadro

System Installed App



FastQC

System Installed App

Anvil

Files

Jobs

Clusters

Interactive Apps

My Interactive Sessions

New Features

Rosen Center for Advanced Computing

Service Unit (SU) Usage

asc170016

15196.22 SUs used / 979191.95 total (963995.73 left)

Export

asc170016-gpu

13.05 SUs used / 855.13 total (842.08 left)

Export

cis230138

0 SUs used / 0 total (0 left)

Export

cis230270

3671.28 SUs used / 166515.47 total (162844.18 left)

Export

hum250006

1941.68 SUs used / 20000 total (18058.32 left)

Export

oth250002-gpu

81.2 SUs used / 1915.68 total (1834.48 left)

Export

tra220012

0 SUs used / 0 total (0 left)

Export

Disk Usage

home / x-lentner

Size → 6.1GB / 25.0GB

View

scratch / x-lentner

Size → 0.0KB / 100.0TB

Files → 1 / 1.0M files

View

projects / x-asc170016

Size → 986.3GB / 5.0TB

Files → 260.0K / 1.0M files

View

projects / x-cis230138-data

Size → 0.0KB / 5.0TB

Files → 1 / 1.0M files

View

projects / x-cis230138

Size → 4.9TB / 5.0TB

Files → 7.4K / 1.0M files

View

projects / x-cis230270

Size → 524.0MB / 5.0TB

Files → 1.0K / 1.0M files

View

projects / x-hum250006

Size → 40.6GB / 5.0TB

Files → 113.0K / 1.0M files

View

Announcements

No recent announcements.

[View All Announcements](#)

Partition Status

[View Queue Limits](#)

powered by

OPEN  nDemand

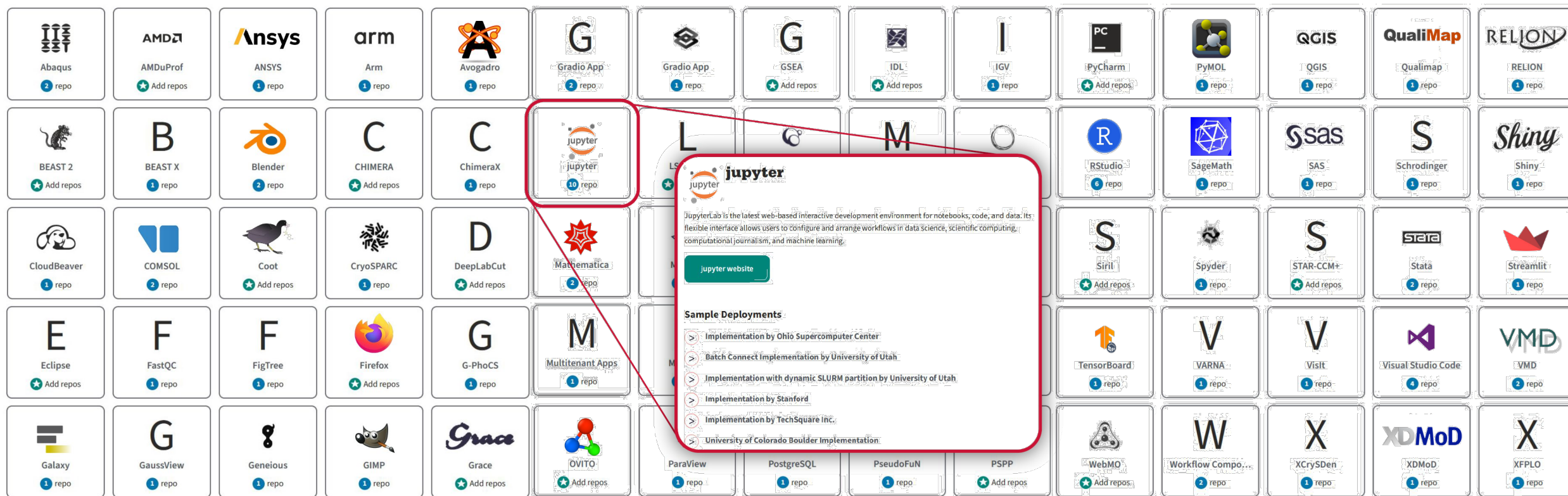
OnDemand version: 3.1.11

OnDemand version: 4.0.3

openondemand.org/custom



Appverse is Coming!



Agenda

~~Open OnDemand 101~~

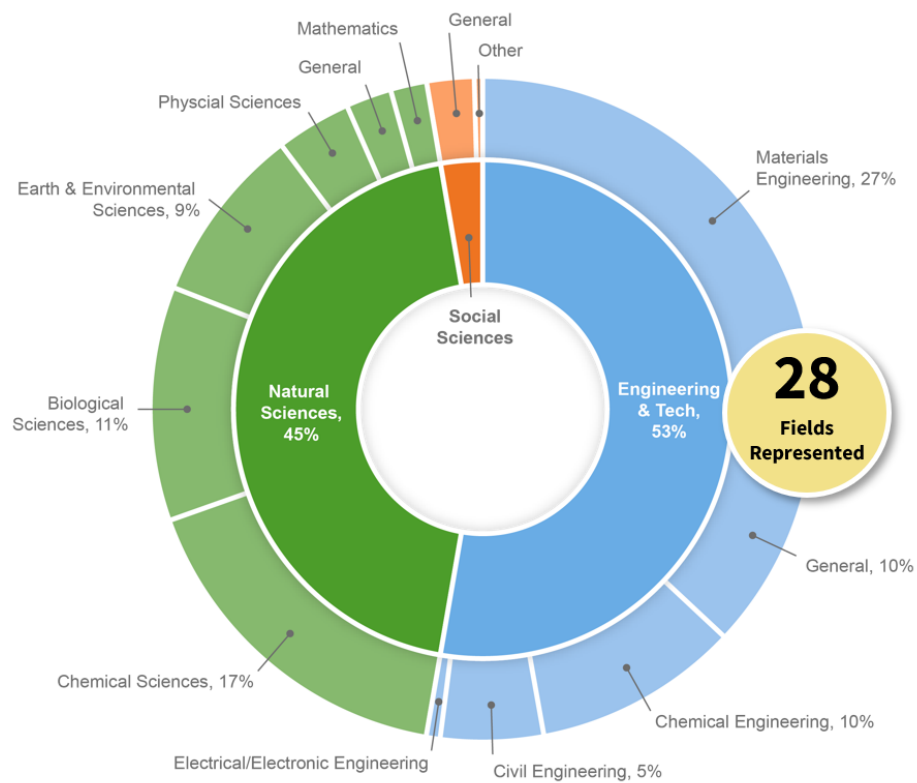
Example Case Studies

Community Support

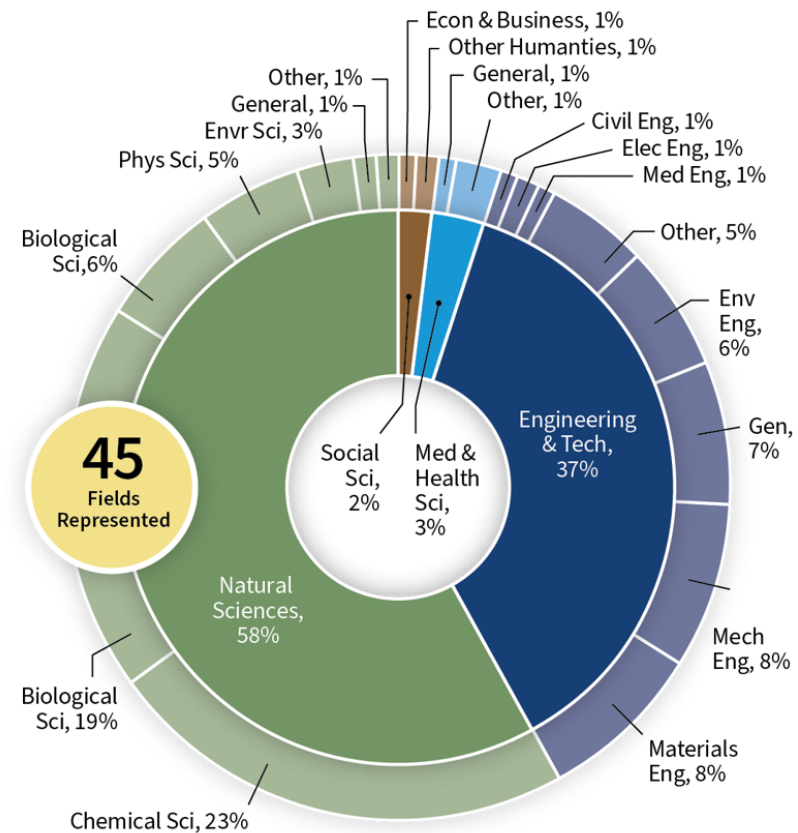
Live Demo



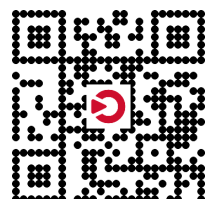
Impact at OSC



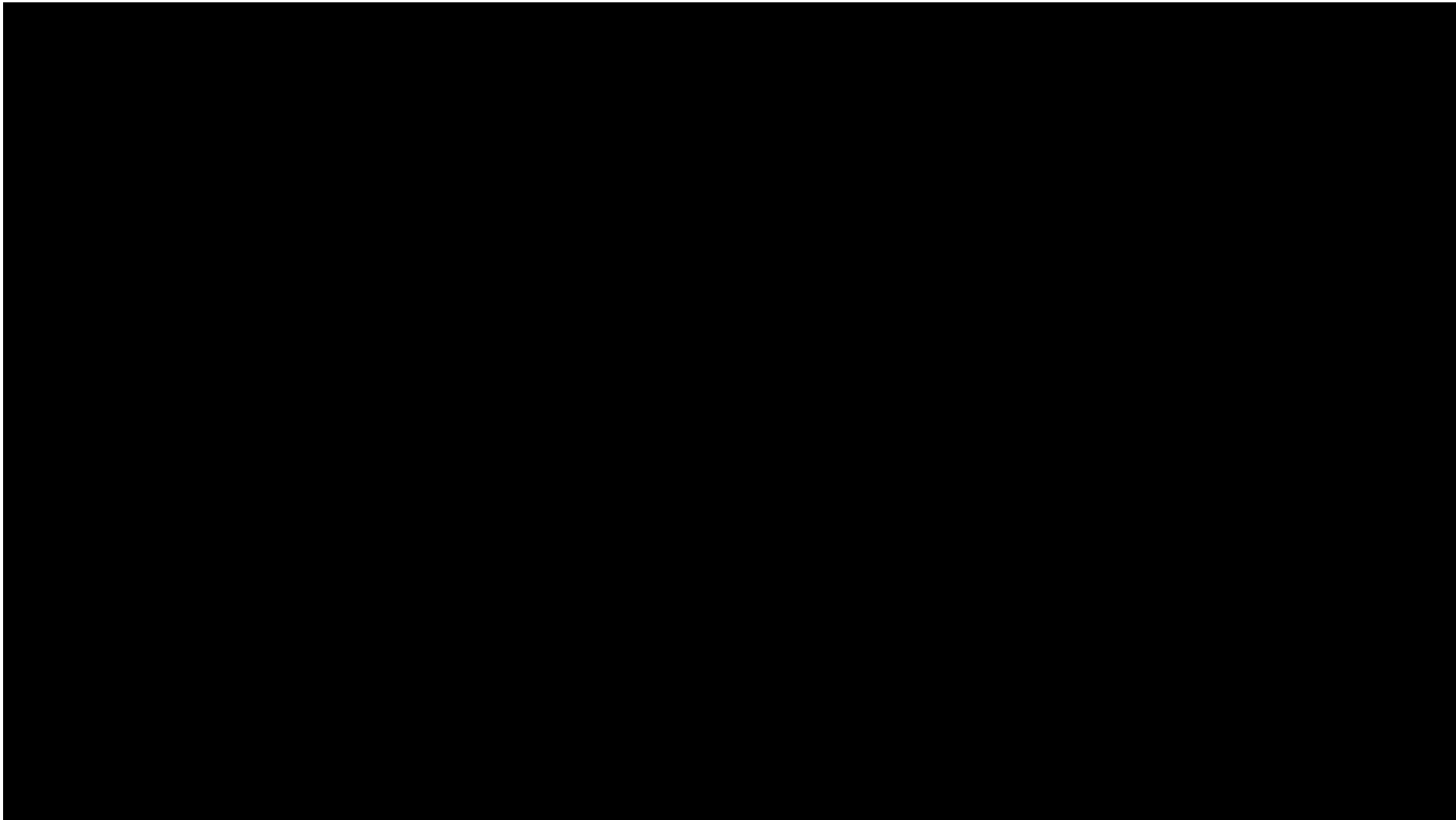
2017



2023

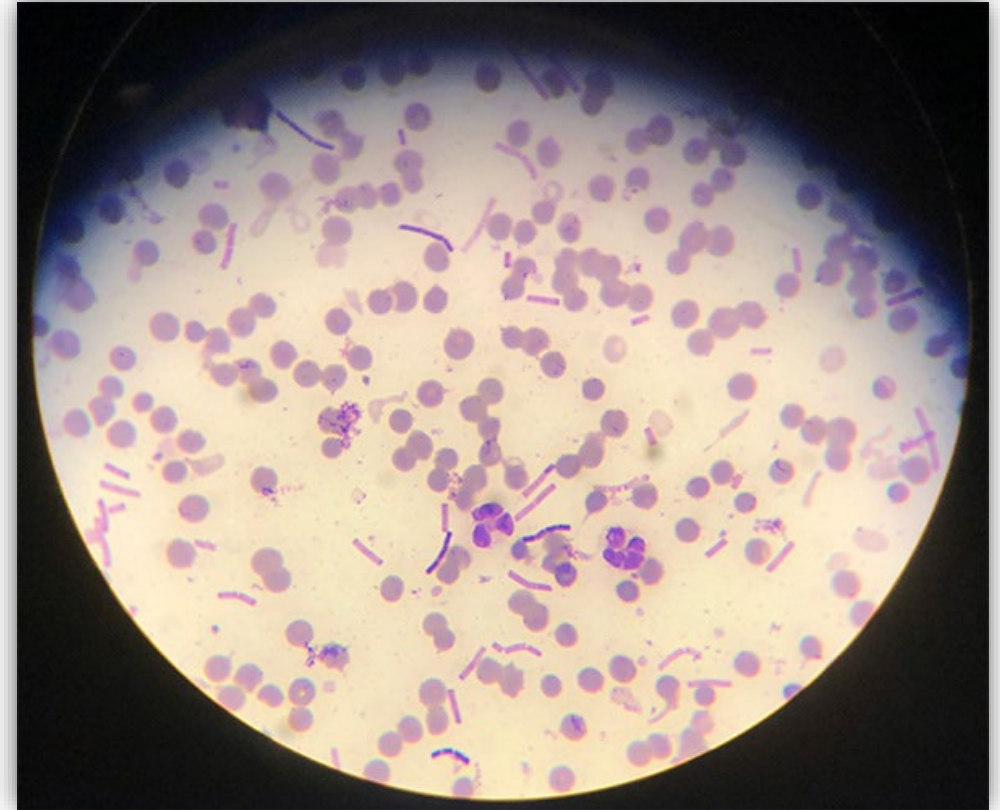


Any Challenge, Every Solution



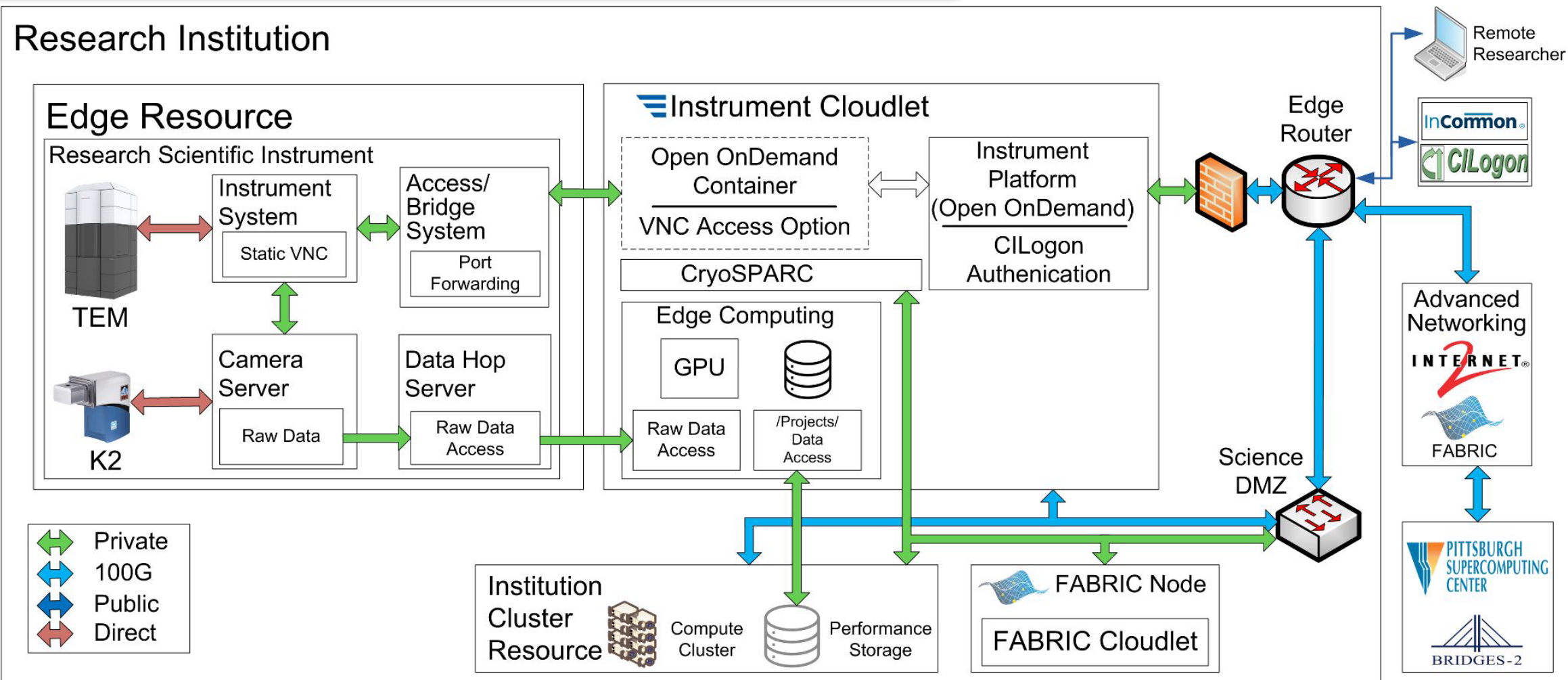
openondemand.org/anyschallenge

Anthrax-Infected Zebras



openondemand.org/zebras

Remote Science



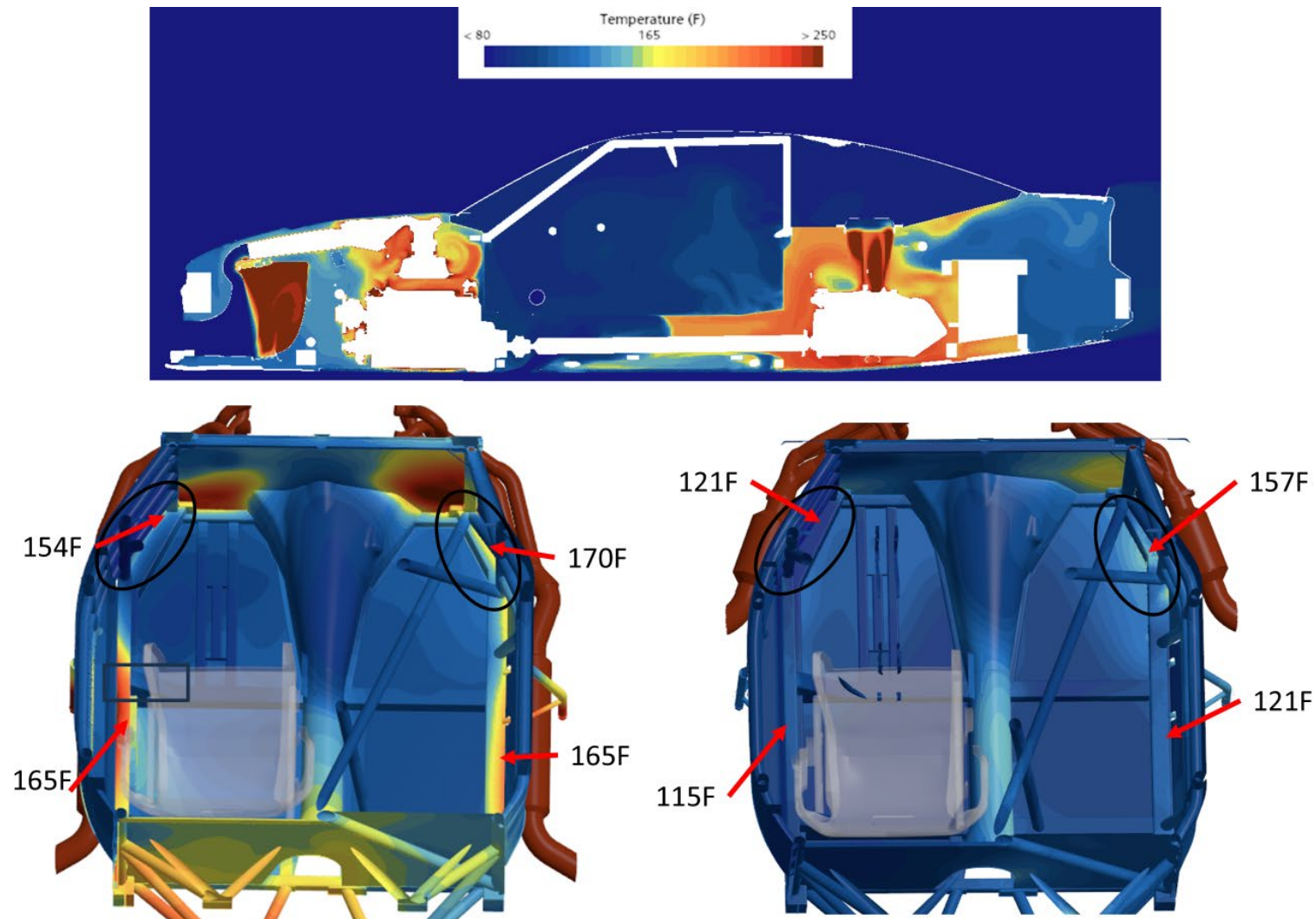
Generative AI



openondemand.org/genai



Race Car Comfort



Agenda

~~Open OnDemand 101~~


~~Example Case Studies~~

Community Support

Live Demo



Community Hub

 nDemand

Community Hub


Affinity Groups Knowledge Base People Events News

Leveraging community knowledge

Join Us

We are an active community of developers, resource providers, researchers, and vendors. We speed up scientific progress and work more efficiently by sharing tools, code, processes and best practices in working with Open OnDemand across disciplines and technologies.

[JOIN](#)



Upcoming Events


11/18/2025
[SC25 - Forum for Open OnDemand \(FOOD\)](#)

11/19/2025
[SC25 - Forum for Open OnDemand \(FOOD\)](#)

12/04/2025
[Open OnDemand Tips and Tricks Call](#)

12/09/2025
[Open OnDemand Office Hours](#)


[ALL EVENTS](#)



Affinity Groups

Topical user groups across disciplines and technologies.


[➤ Affinity Groups](#)



Knowledge Base

Find and share resources useful to the community.

[➤ Knowledge Base](#)



People

Meet the community using Open OnDemand.

[➤ Member Directory](#)

openondemand.org/hub



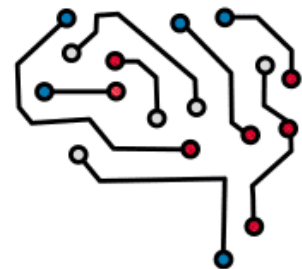
Affinity Groups



Customizing the Backend



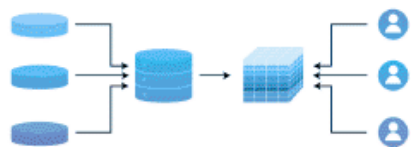
Genomics



LLMs



New to
OPEN
nDemand



Project Design



Appverse



Classroom



Azure



Security Best Practices



Multilingual Community



Structural Biology Apps



Web Apps & Absolute URLs

openondemand.org/hub



Annual Conference

OPEN  nDemand



Global Open OnDemand Conference

THE UNIVERSITY OF UTAH | MARCH 9-12, 2026

Deadline to Submit Proposals: December 15, 2025

openondemand.org/good

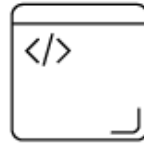


Other Ways to Get Involved



Write Documentation

Draft documentation for a new app or feature, or help us revise existing docs.



Write Code

Write code for a new app or feature, and share it with our community.



Fund the Project

Provide monetary support to our development team or one of our partners.



Spread the Word

Mention us on social media [@open_ondemand](#)—or simply tell your friends!



Engage With Us

Collaborate with us to make your corporate or higher ed project a reality



Make a Suggestion

Pitch a new app or feature—or report a bug—to help make Open OnDemand even better.



openondemand.org/get-involved

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 a suggestion. They are held on the second Tuesday of every month from 11:15 a.m. to 12:45 p.m. ET in the US

European and Asia Pacific-timed versions of tips and tricks also now happening!



openondemand.org/events

Free Support Program



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.

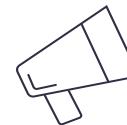
openondemand.org/slack



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

Paid Support Program

Free	Basic		Pro BEST VALUE		Elite	
All Open OnDemand clients have access to free support services.	All the benefits of Free + priority support channels and early releases.		All the benefits of Basic + private support sessions on a set calendar and event exclusives.		All the benefits of Pro + scheduled private support sessions when they work for you and priority access to Open OnDemand staff.	
<ul style="list-style-type: none"> ✓ Public office hours ✓ Public discussion boards ✓ Public GitHub troubleshooting ✓ Public events 	<ul style="list-style-type: none"> ✓ Private Discourse & GitHub access ✓ Early access to updates 		<ul style="list-style-type: none"> ✓ 3 private support sessions per quarter on a set calendar (add-on sessions available; see reverse) ✓ Recognition at public events ✓ Special event invitations ✓ Exclusive brand items 		<ul style="list-style-type: none"> ✓ 6 private “choose your time” support sessions per quarter (add-on sessions available; see reverse) ✓ Support via email ✓ Access to special developer sessions at major public events 	
Academic Others FREE	Academic \$3,000/ year	Others \$5,000/ year	Academic \$5,500/ year	Others \$7,500/ year	Academic \$13,000/ year	Others \$15,000/ year

openondemand.org/subscribe



Staying Up To Date

OPEN
nDemand
openondemand.org



Connecting Computing Power With
Powerful Minds

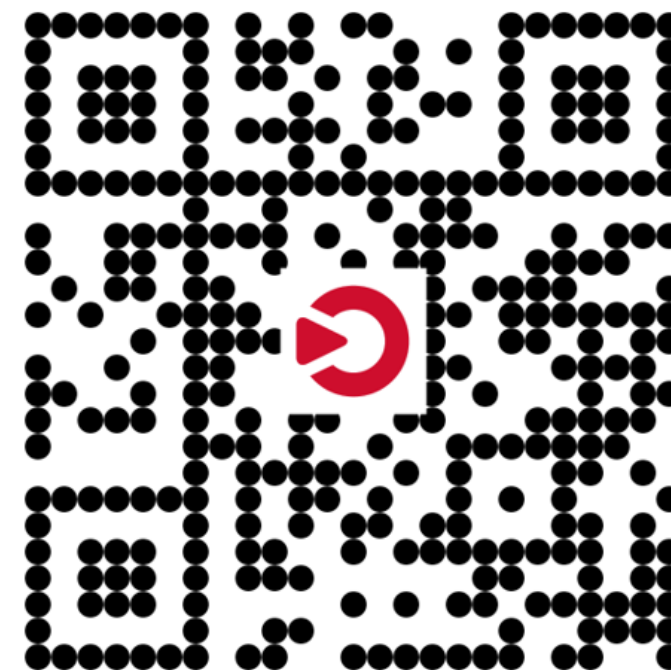
Visit us at SC25

November 16-21, 2025 | St. Louis, Missouri
Booth 4214: Ohio Supercomputer Center & Open OnDemand

We are excited for another spectacular Supercomputing Conference and eager to see lots of familiar faces and hopefully many new ones, too.

We will have a robust presence, including our Ohio Supercomputer Center (OSC) and Open OnDemand **exhibitor booth 4214**, special events, demos, giveaways and more.

The full Open OnDemand schedule is below, with even more at the OSC and Open OnDemand SC hub at **osc.edu/sc25**.



openondemand.org/newsletter

Agenda

~~Open OnDemand 101~~

~~Example Case Studies~~

~~Community Support~~

Live Demo



Thank You!

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Julie Ma

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Emily Moffat Sadeghi

emoffat@openondemand.org



openondemand.org/sc25