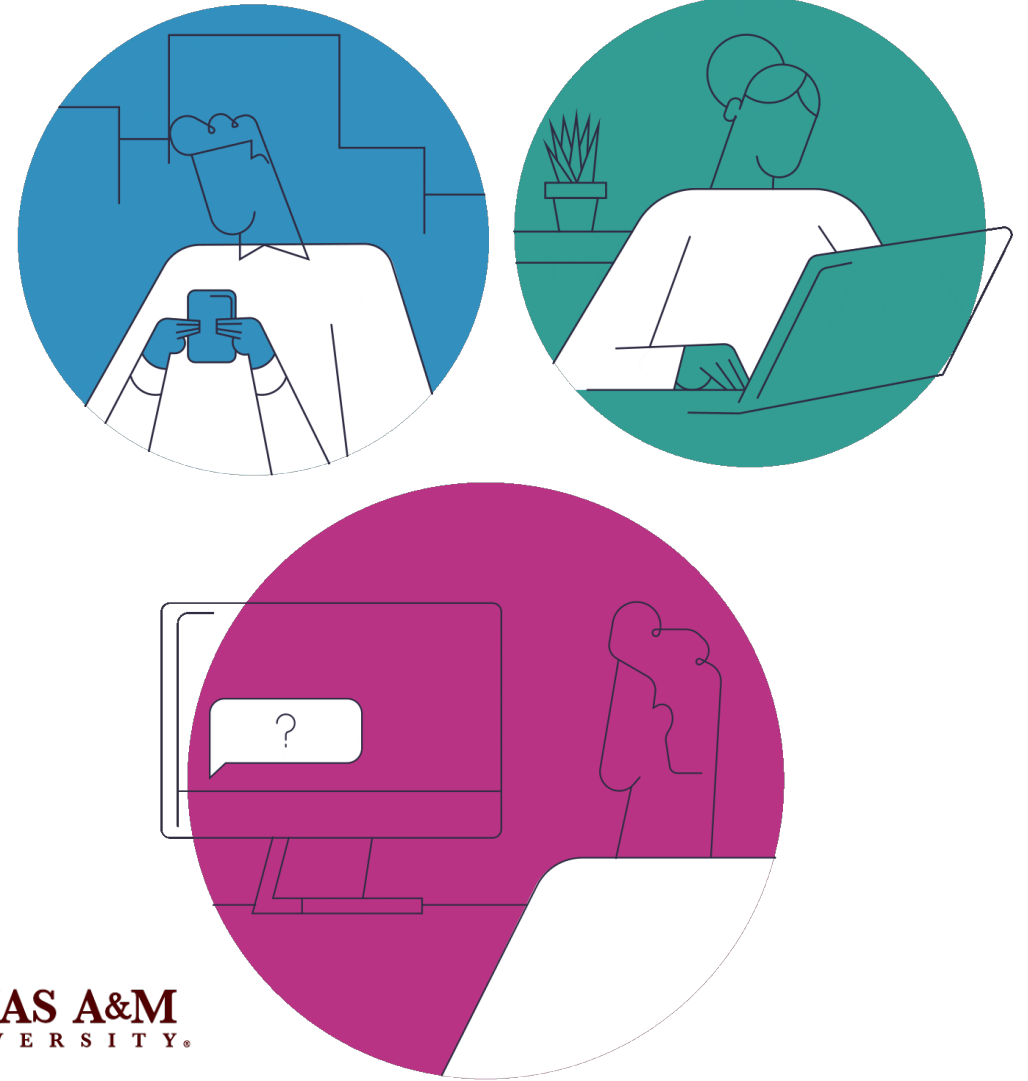


Connecting Computing Power with Powerful Minds

Alan Chalker



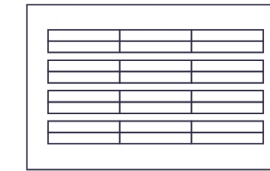
This work is supported by the National Science Foundation of the United States
under the awards 1534949, 1835725, 2138286, 2303692, and 2411375

openondemand.org/intel-sc24



Run Open OnDemand

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



Zero installation

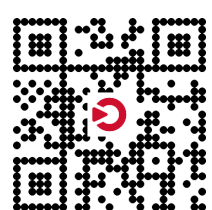
Run Open OnDemand entirely in your browser. No client software installation required.

Easy to use

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

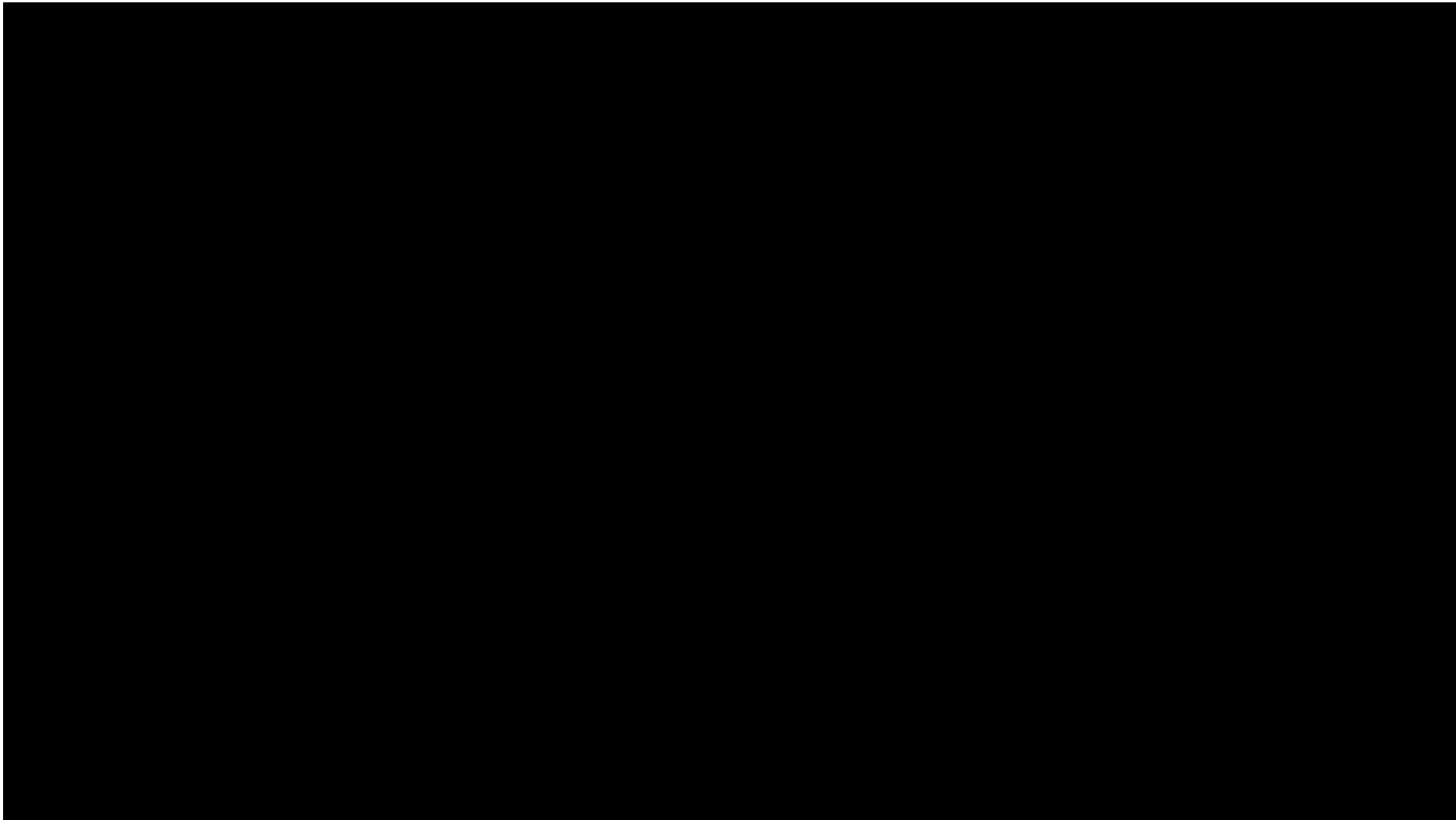
Compatible with any device

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



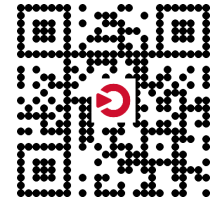
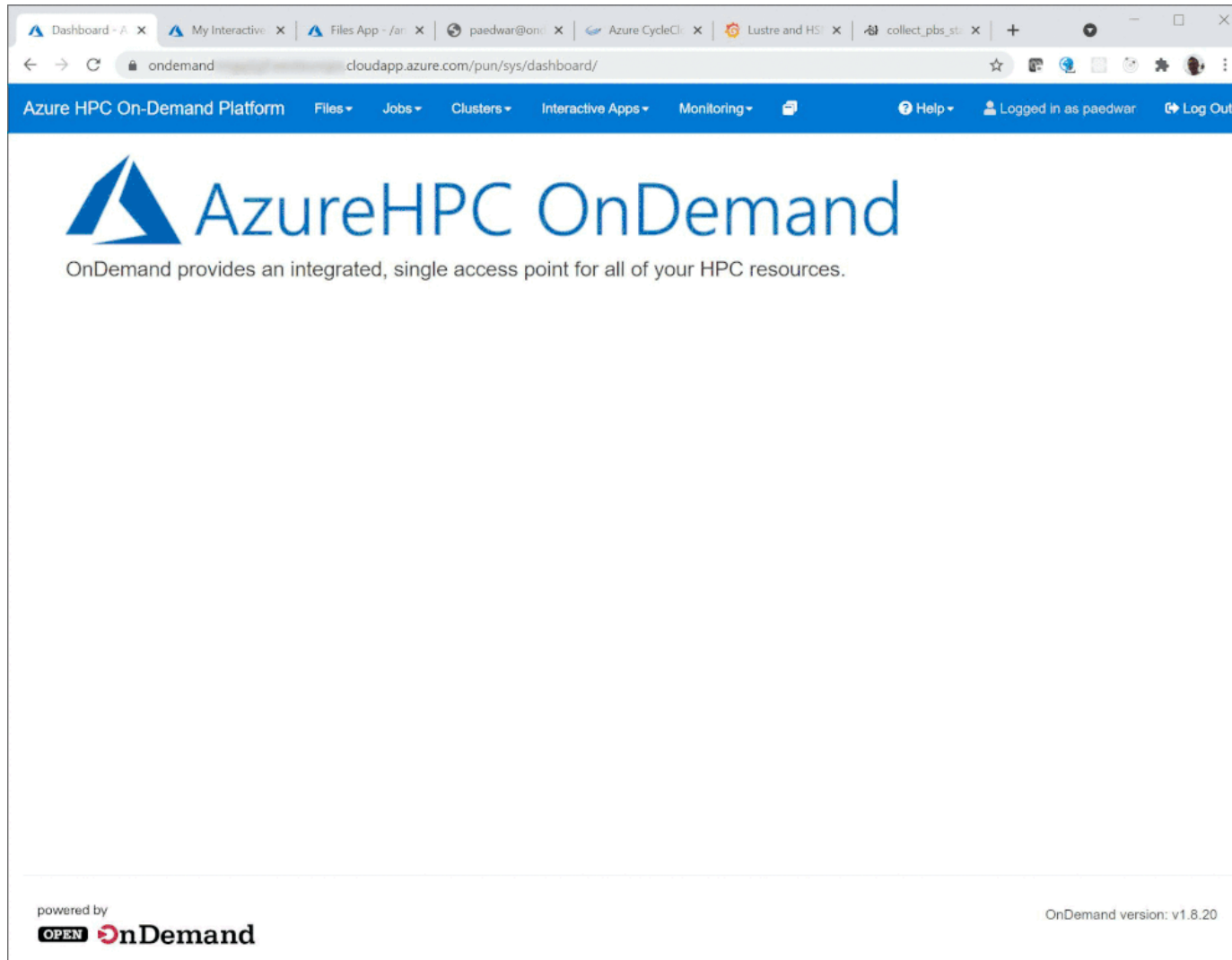
openondemand.org/run

Any Challenge, Every Solution

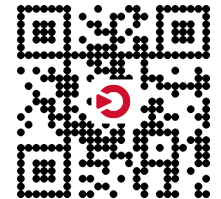


openondemand.org/anyschallenge

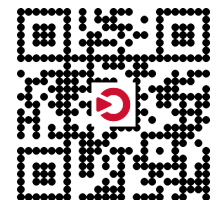
Commercial Cloud



openondemand.org/aws



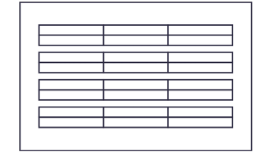
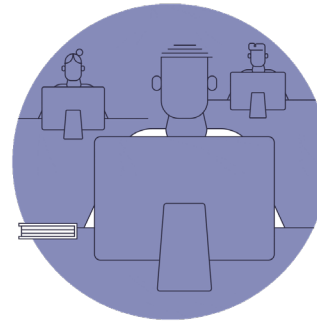
openondemand.org/azure



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

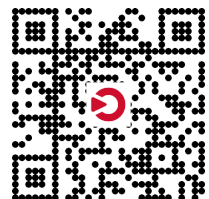
Empower users of all skill levels by offering an alternative to command-line interface.

Free and open source

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

Configurable and flexible

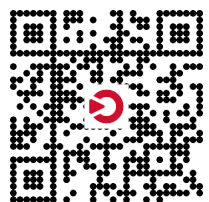
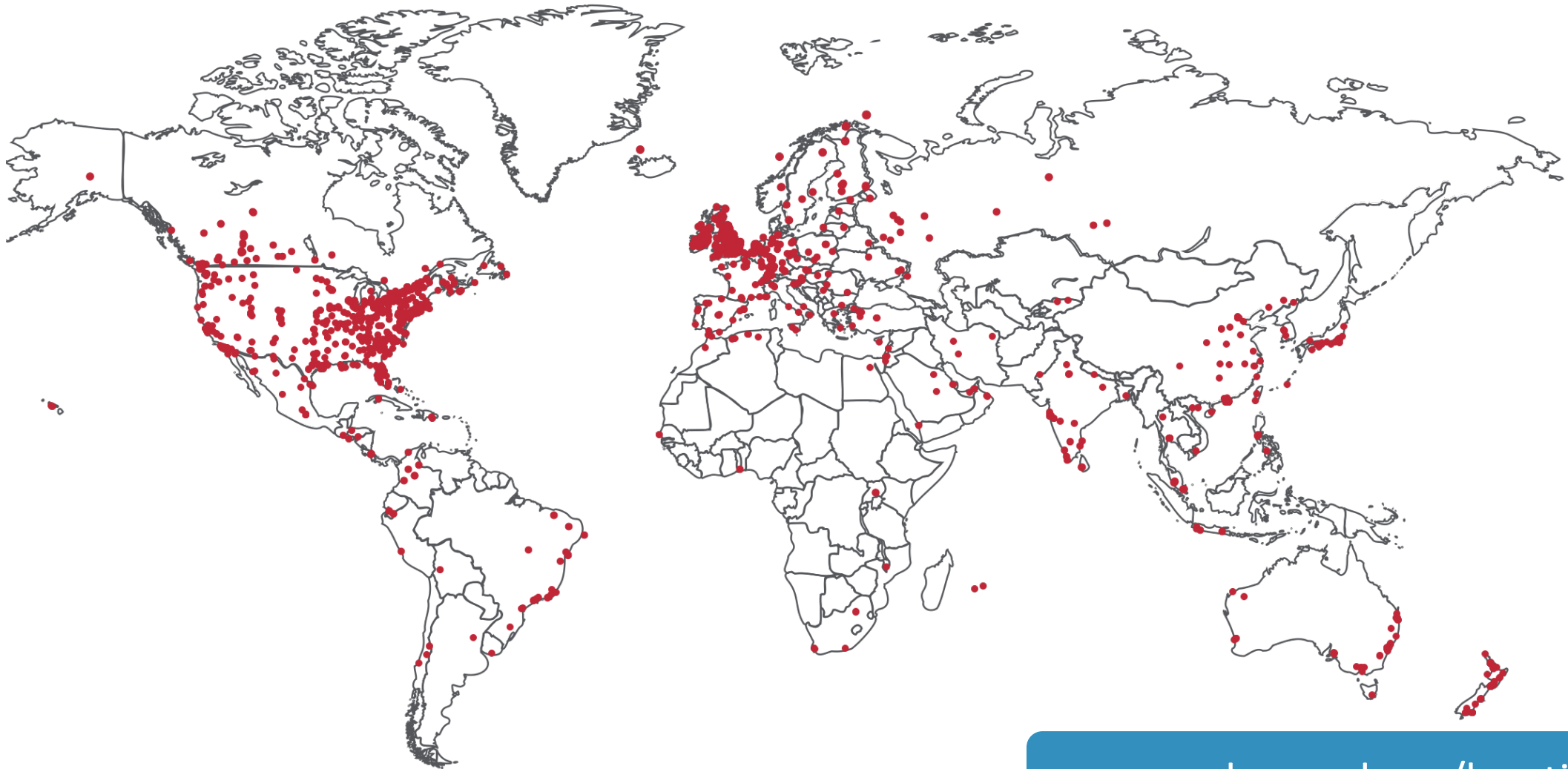
Create and deploy your own applications to meet your users' unique needs.



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



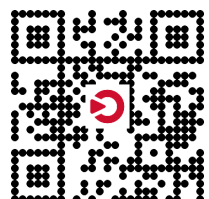
Public academia



Industry



openondemand.org/orgs



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



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QGIS



RELION



RStudio



Schrodinger



Shiny



Siril



STAR-CCM+



Stata



TensorBoard



VisIt



Visual Studio Code



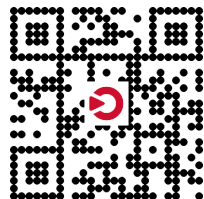
VMD



WebMO



XDMoD



openondemand.org/apps

Community Events



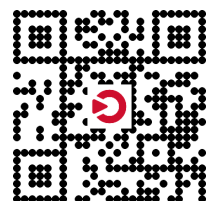
Tips and tricks calls

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.



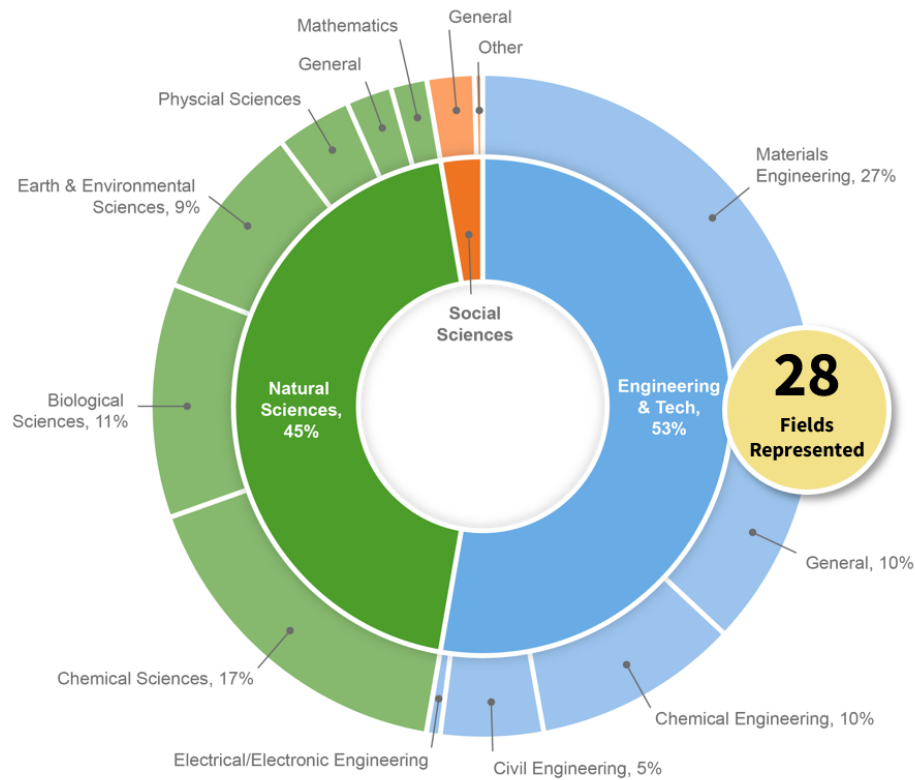
Open office hours

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.

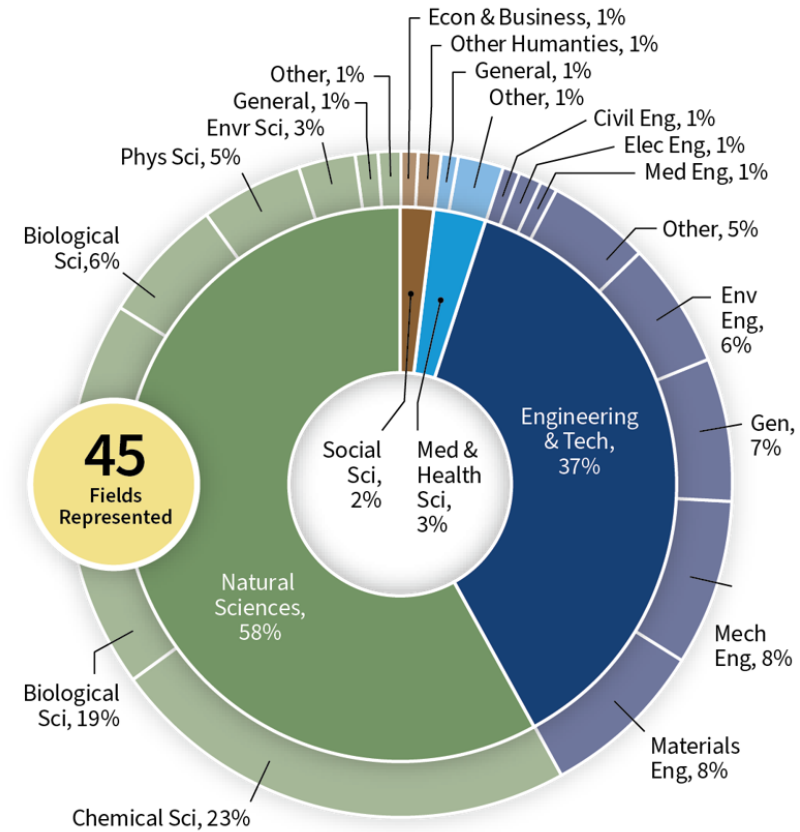


openondemand.org/events

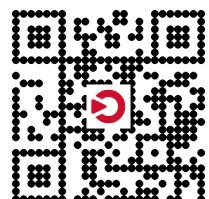
Impact at OSC



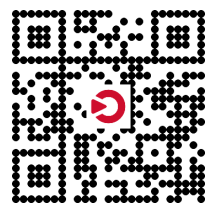
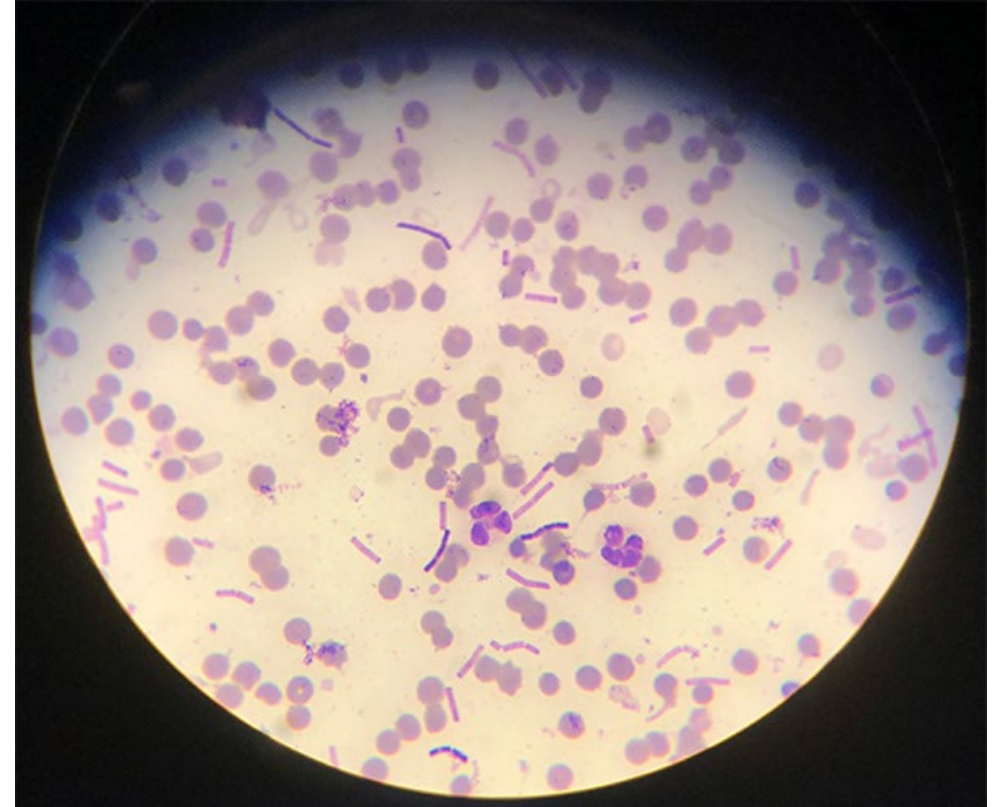
2017



2023

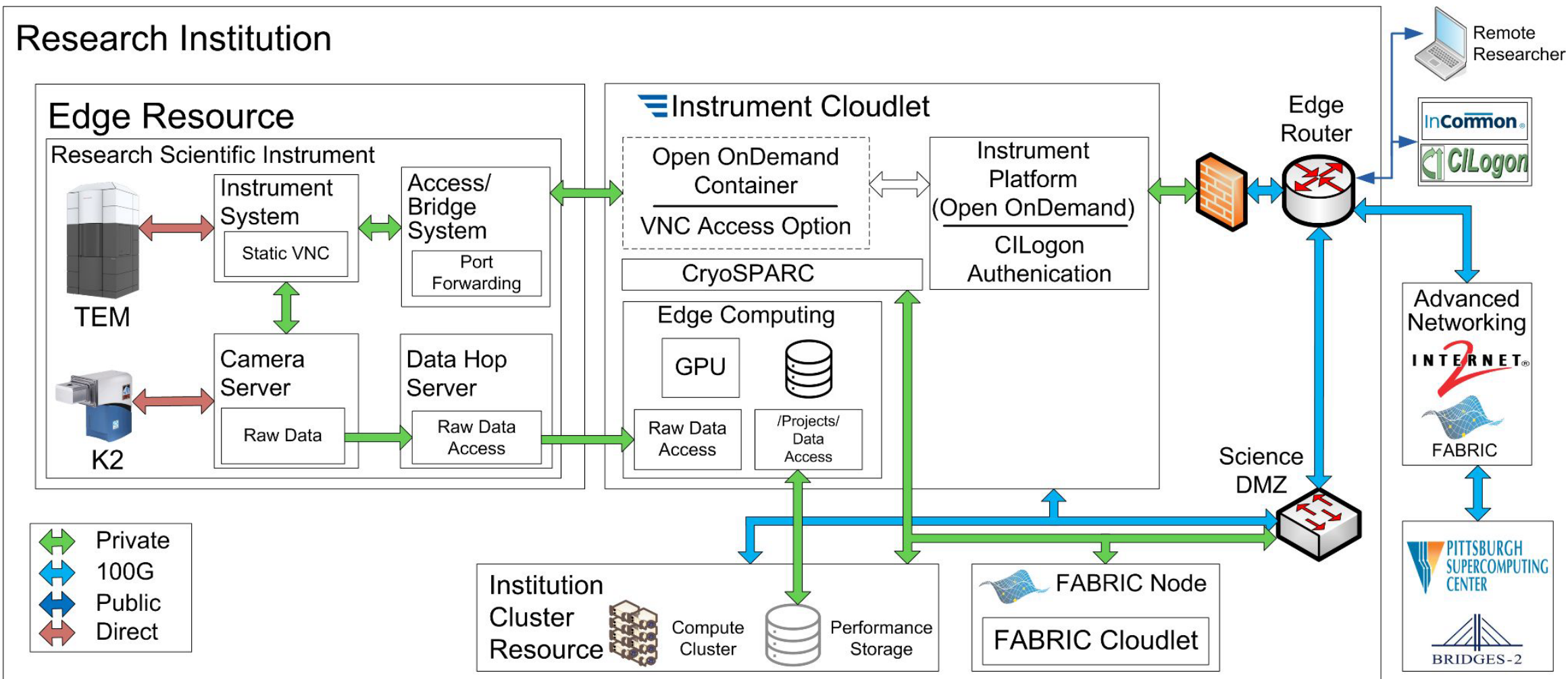


Anthrax-Infected Zebras

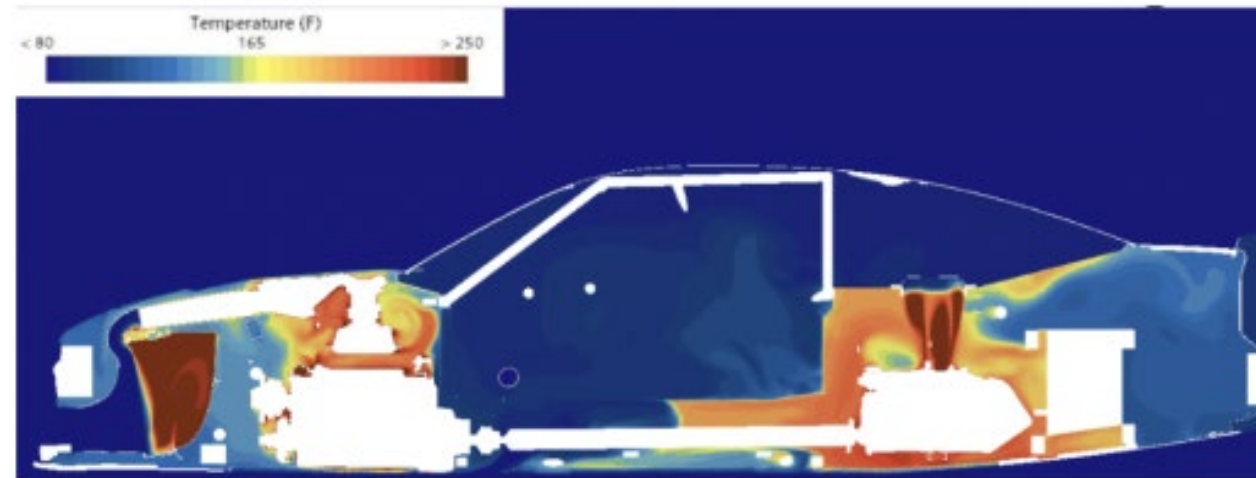


openondemand.org/zebras

Remote Science



Race Car Comfort



OSC Systems

	Pitzer	Pitzer Expansion	Ascend	Cardinal	TOTALS
Year Acquired	2018	2020	2022, 2024	2024	
Cost	\$3.4 million	\$4.3 million	\$10 million	\$9.6 million	\$27.3 million
Theoretical Perf.	~1.3 PF	~2.6 PF	~14 PF	~10.5 PF	~28.4 PF
Nodes	260	398	298	378	1,334
CPU Cores	10,560 Intel	19,104 Intel	37,376 AMD	39,312 Intel	106,352
GPUs	64 NVIDIA	102 NVIDIA	644 NVIDIA	128 NVIDIA	938 GPUs



osc.edu/clusters

Cardinal



“The Intel Xeon CPU Max Series is an optimal choice for developing and implementing HPC and AI workloads ... We take pride in supporting OSC.”

- Ogi Brkic, Intel VP/GM of Data Center AI Solutions

osc.edu/news/cardinal



NASCAR Testing Results

Better Scalability for Large Parallel Jobs

Went from ~700 to ~1,500 cores max

Significant Speedup for Smaller Parallel Jobs

~30% to ~65% reduction in run time


Impressive Socket-Socket Communications Speeds

~50% reduction in wall time

*Intel does not control or audit third party data. You should consult other sources to determine accuracy

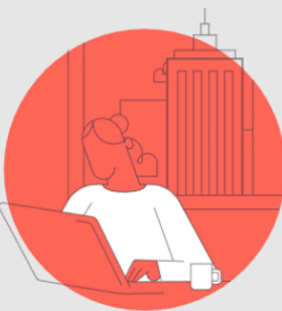
Staying Up To Date

OPEN

 nDemand

openondemand.org

Connecting Computing Power
With Powerful Minds



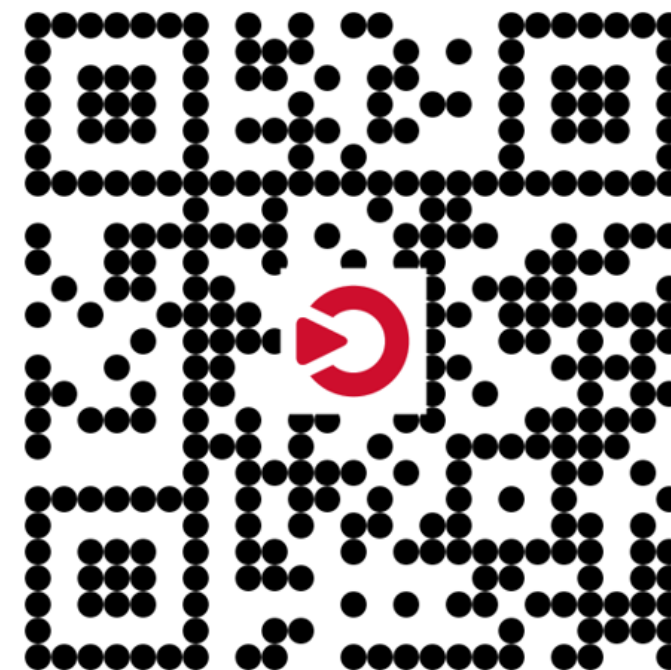
Open OnDemand Version 3.1.7 Available

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

Thank You!

Alan Chalker

alanc@openondemand.org

Visit our booth #1213 for Open
OnDemand giveaways

