GOODLUCK

Growing Open OnDemand: Leveraging Unified Community Knowledge

OPEN OnDemand

Connecting Computing Power with Powerful Minds

PI: Alan Chalker, Ph.D.
Co-PI: Karen Tomko, Ph.D.
Ohio Supercomputer Center

Co-PI: Julie Ma
Massachusetts Green High Performance Computing Center

PI: Alan Sussman, Ph.D.
University of Maryland

PI: Dhruva Chakravorty, Ph.D.
Texas A&M University

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.

Install Open OnDemand

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

Low barrier to entry
Empower clients 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 clients' unique needs.

Intellectual Merit

Enables non-traditional sciences
Has resulted in research computing usage from fields such as art design, horticulture, and political science.

Increased productivity
Provides a median of 900 hours per year per institution additional productivity compared to terminal sessions.

Faster time to science
Idaho National Lab had a 19 times decrease in time between account creation and first job submission.

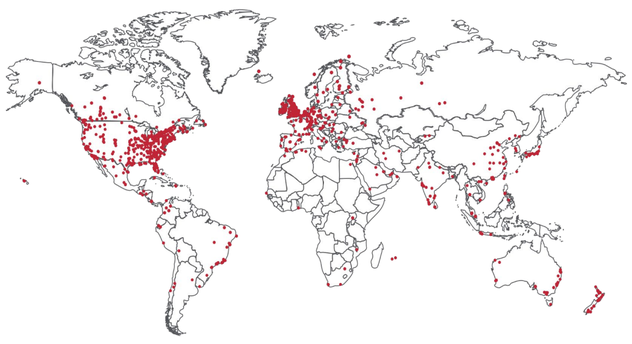
Broader Impacts

Used by all sectors
Including public and private academic institutions, government agencies, and private industries.

Workforce development
Has been used by high school students as part of summer programs at multiple institutions.

Globally deployed
In use at 2,100+ research computing locations across every continent except Antarctica.

Recent Items of Note



Geolocated Open OnDemand deployments from 2024 server log analysis, 2100+ locations, 100+ countries

Recipient of 2024 HPCwire Reader's Choice Award

Image generated by Ohio University Art Design students with Stable Diffusion running in Open OnDemand

The inaugural Global Open OnDemand (GOOD) conference attracted 170 attendees from 10 countries

The GOODLUCK Initiative

Growing Open OnDemand:
***Leveraging* Unified Community Knowledge**

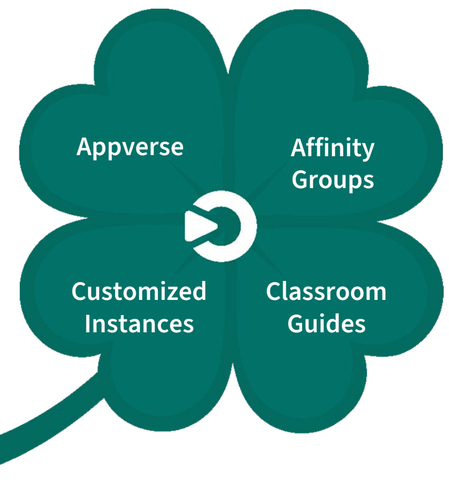
Domain solutions for the sciences, engineering & education

Catalog
Provide capabilities to conceptualize, create, modify, share, and publicize apps.

Affinity Groups
Facilitate communication among the community.

Customized Instances
Innovate in client interfaces and new technologies.

Classroom
Focus on Open OnDemand in educational environments.



Documentation, code repos, forums, publications, and presentations available at:

openondemand.org

Ohio Supercomputer Center | MGHPCC Massachusetts Green High Performance Computing Center | Texas A&M University | University of Maryland

This material is based on work supported by the National Science Foundation under grant numbers 1534949, 1835725, 2138286, 2303692, and 2411375-7