OPEN OnDemand

SCA / HPCAsia Open OnDemand BoF

Emily Moffat Sadeghi, Masahiro Nakao, Sean Anderson

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/sca26

Quick Survey

OPEN OnDemand

Instructions

Go to

www.menti.com

Enter the code

5253 2896

Or use QR code

Agenda

Introduction

Community Updates

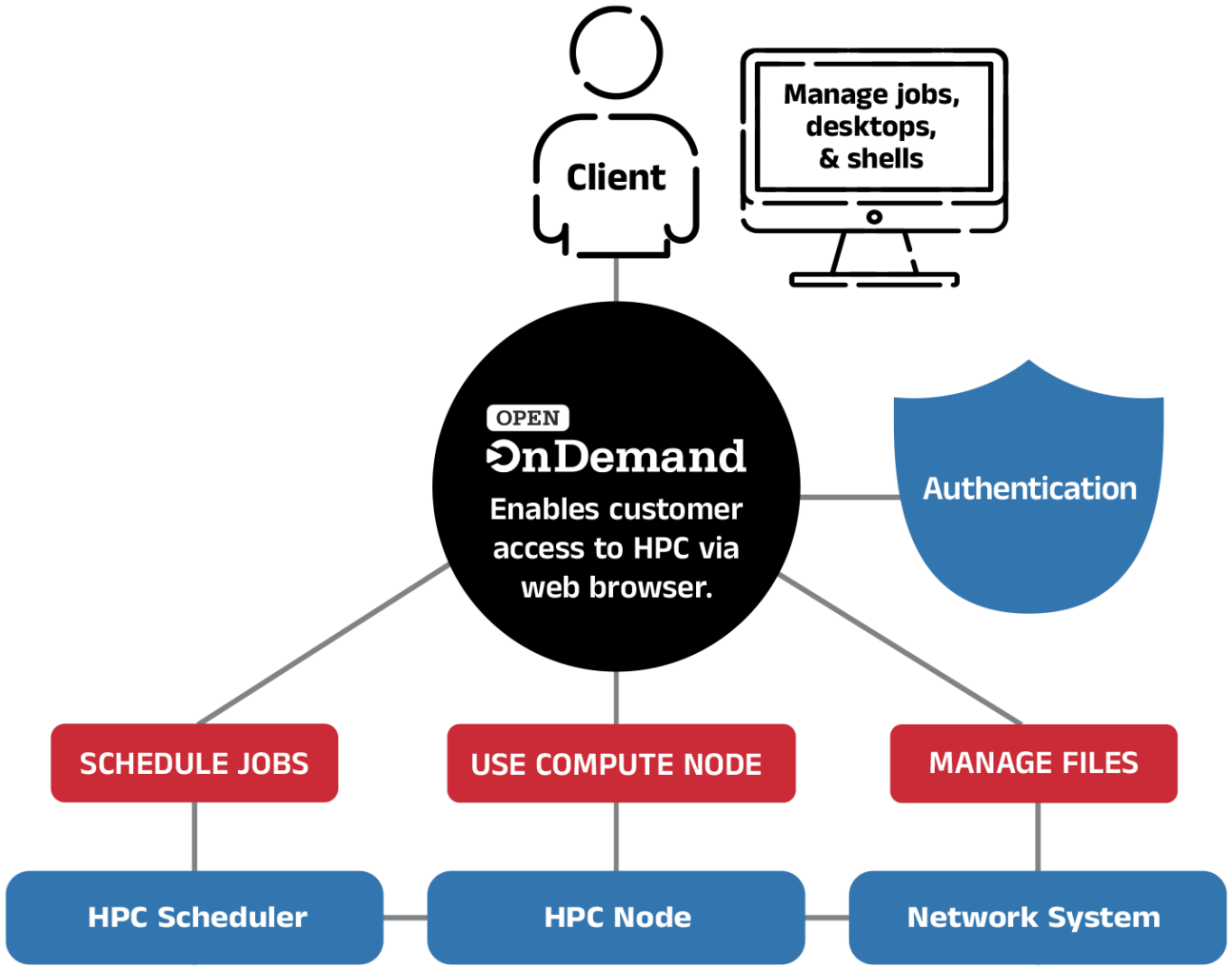
Community Stories

Support Updates

Technical Updates

Q&A

About Open OnDemand



In the late 2000s, when smartphones made information accessible anywhere, we had an epiphany: what if you could access supercomputers from anywhere, too?

Open OnDemand was created as an open-source platform to easily access supercomputing resources through the browser.

openondemand.org/about-us

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

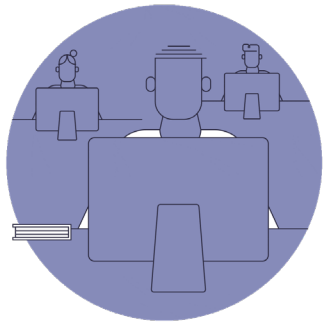
Launch on any device with a browser—even a mobile phone or tablet.

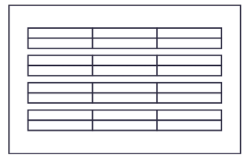
openondemand.org/run

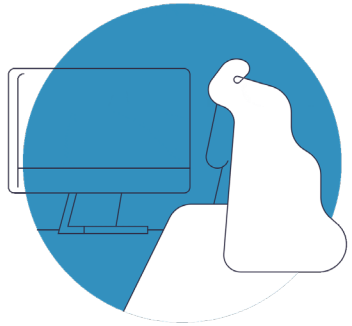
Install Open OnDemand

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

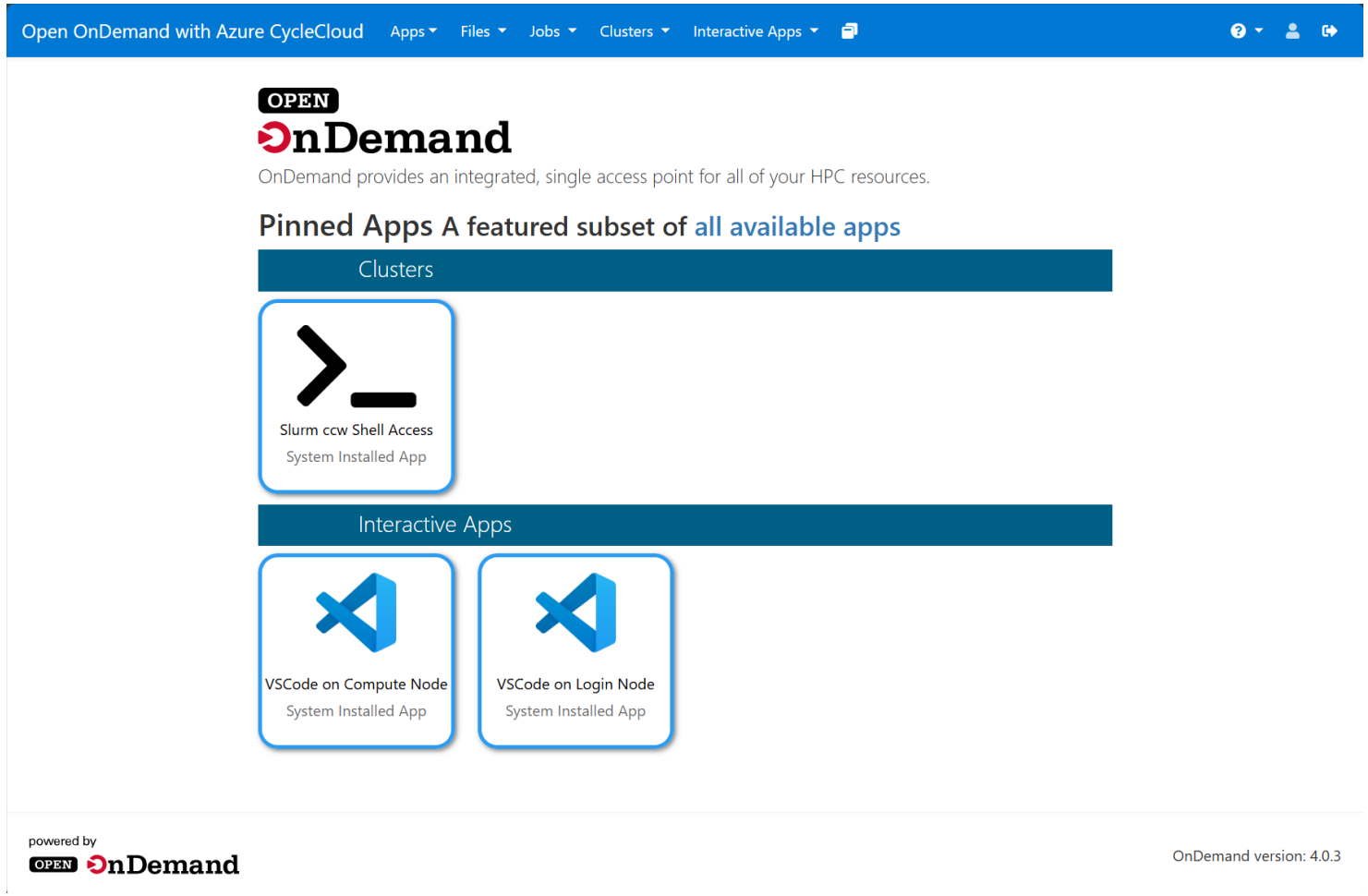
Any Device, Anywhere

OPEN OnDemand

Ohio™ Supercomputer Center

openondemand.org/anydevice

Commercial Cloud



OPEN OnDemand

aws

openondemand.org/aws

Microsoft Azure

openondemand.org/azure

Google Cloud

openondemand.org/gcp

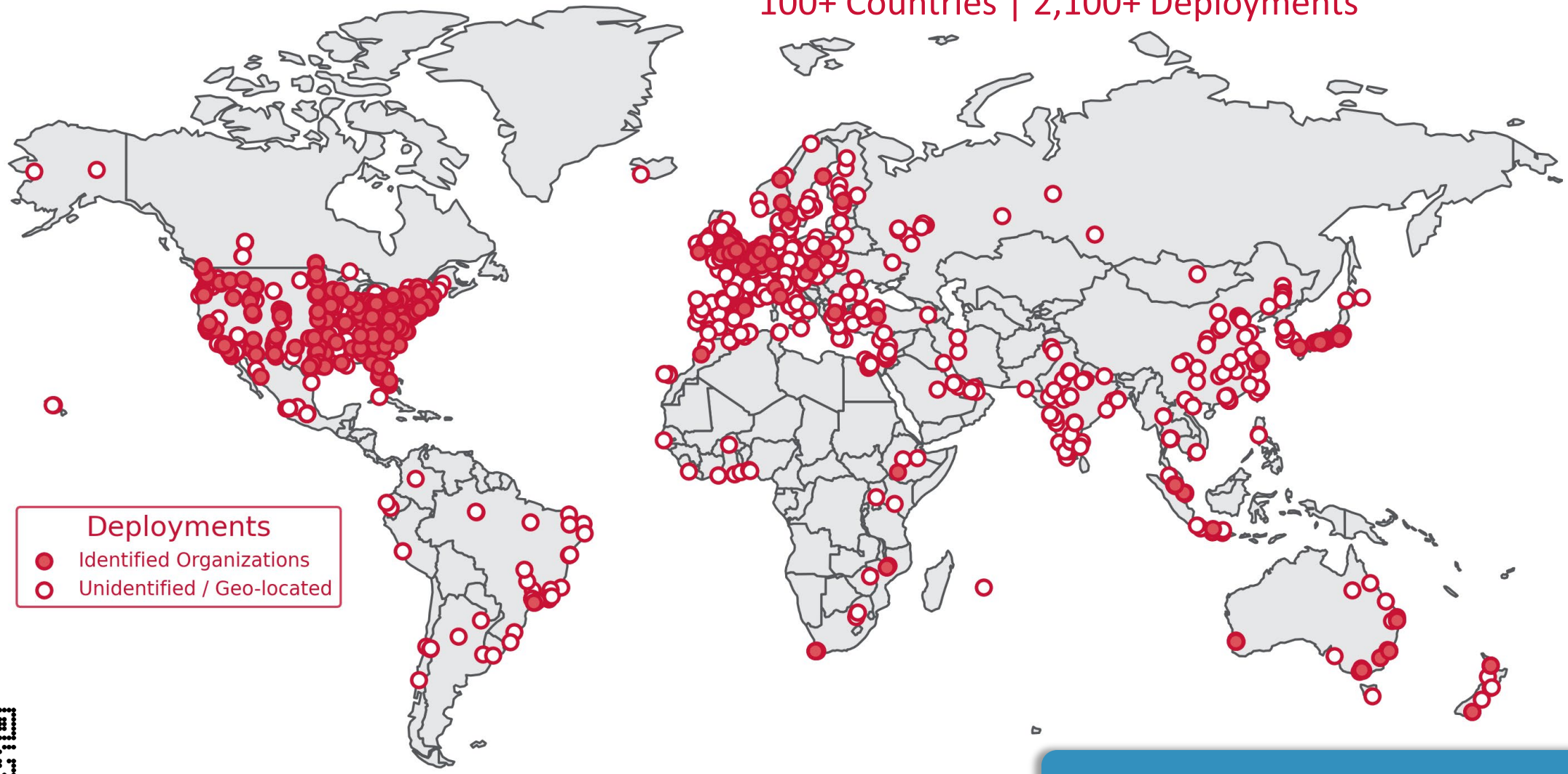
ORACLE

openondemand.org/oci

Deployed Worldwide

OPEN OnDemand

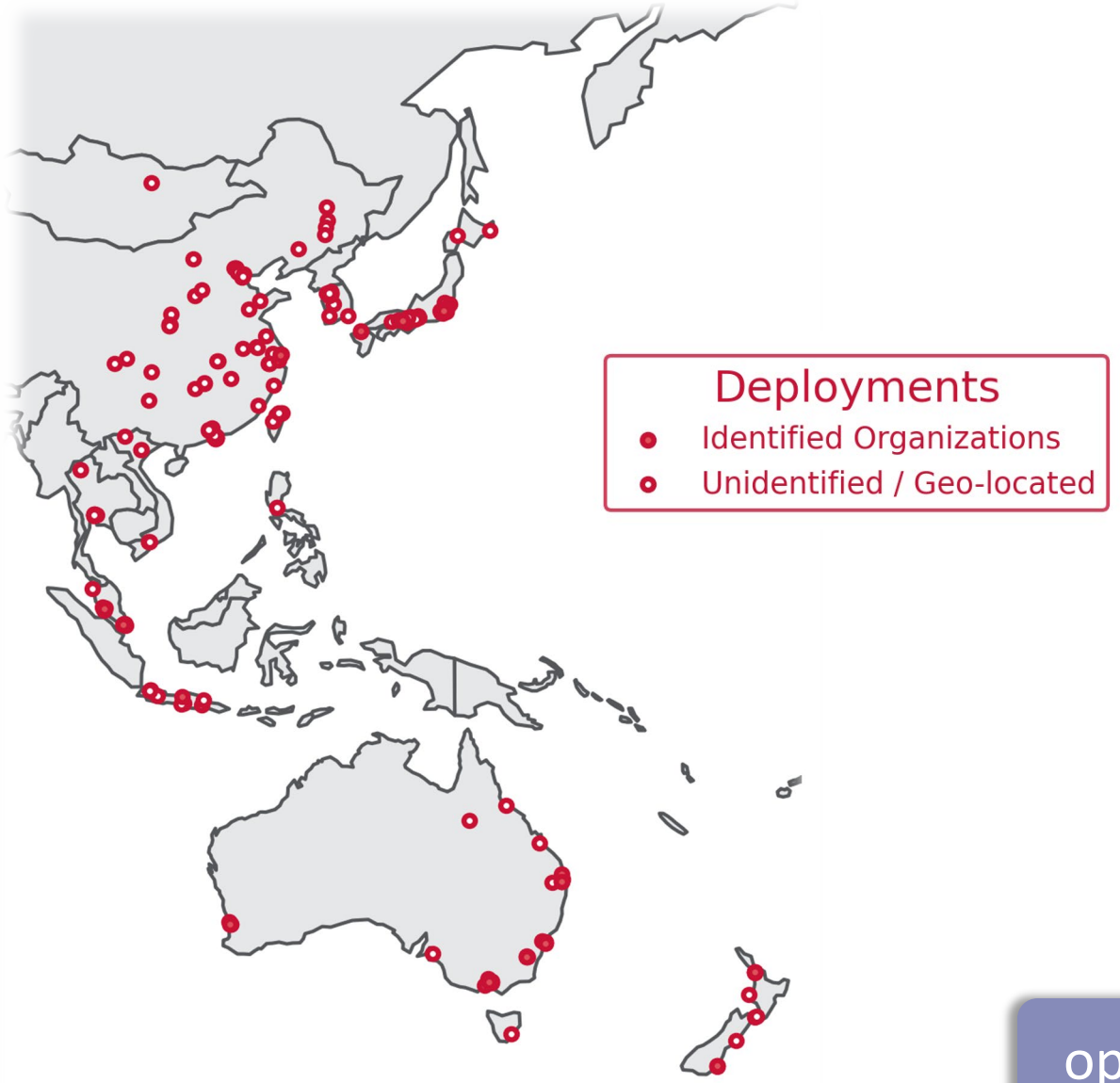
100+ Countries | 2,100+ Deployments



openondemand.org/locations

Deployed in APAC

OPEN OnDemand



openondemand.org/locations

Example Deployments

OPEN OnDemand

Nonprofit / Research centers

Cincinnati Children's · RIKEN Center for Computational Science · PSC · 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

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

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 · VT Virginia Tech

Industry

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

openondemand.org/orgs

US Public 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)

Key Collaborations

OPEN OnDemand

globus

THE UNIVERSITY OF UTAH

INL Idaho National Laboratory

CSC

RIKEN

R-CCS

PacificTeck
HPC and Machine Learning Experts

NUMFOCUS
OPEN CODE = BETTER SCIENCE

doitnow

omnibond

Microsoft Azure

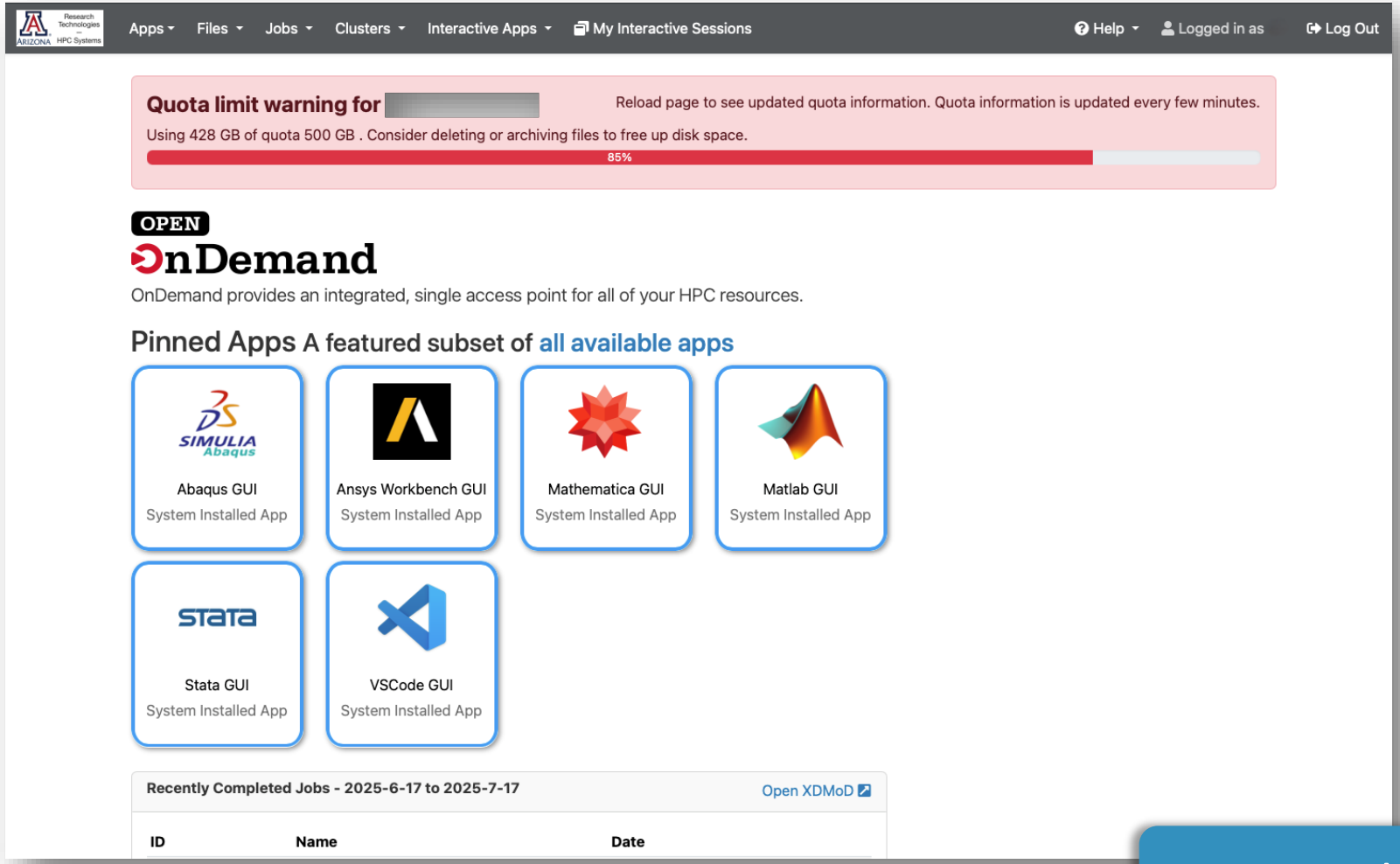
HARVARD UNIVERSITY

UNIVERSITY OF MARYLAND

TEXAS A&M UNIVERSITY

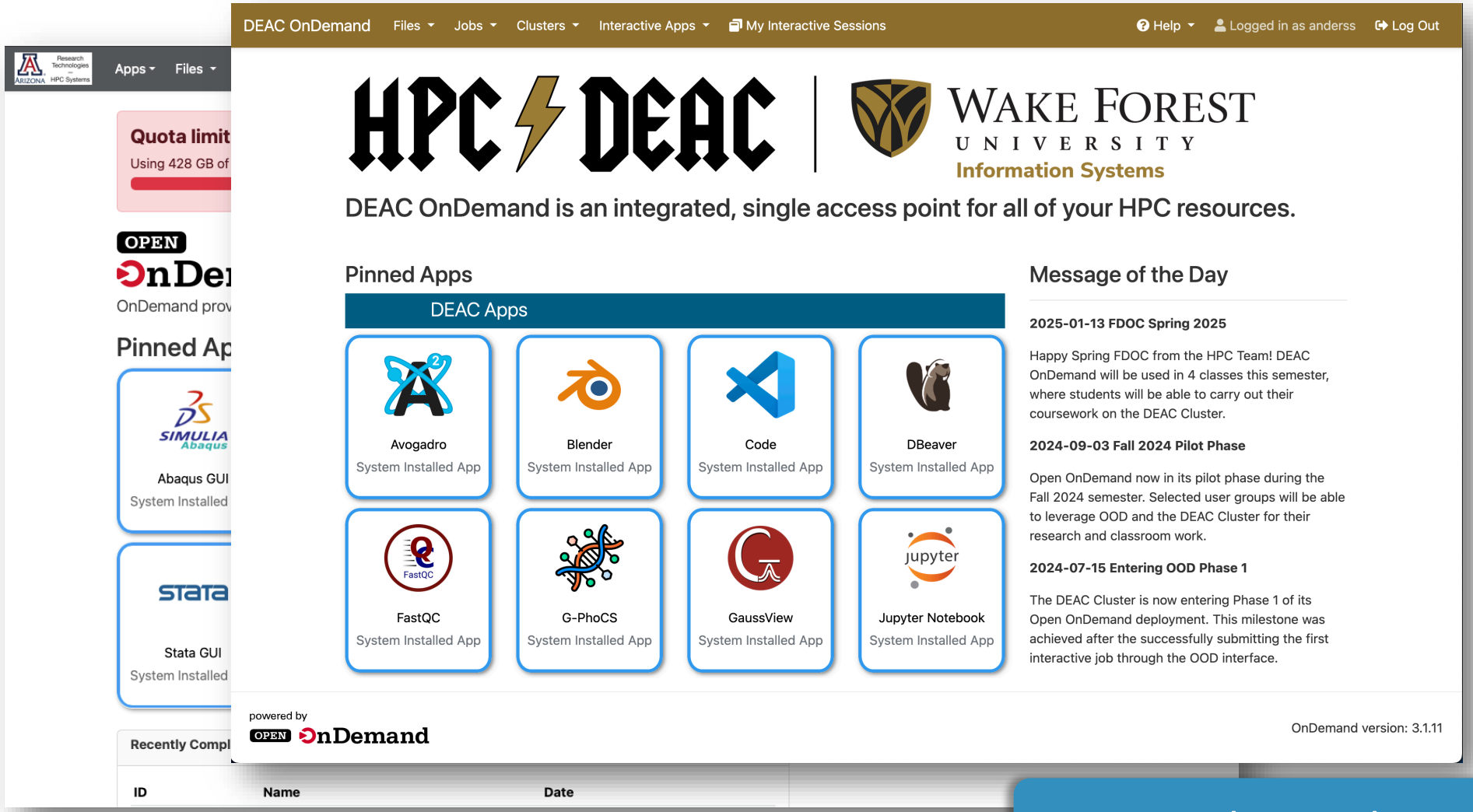
openondemand.org/our-partners

Sample Deployments



openondemand.org/custom

Sample Deployments



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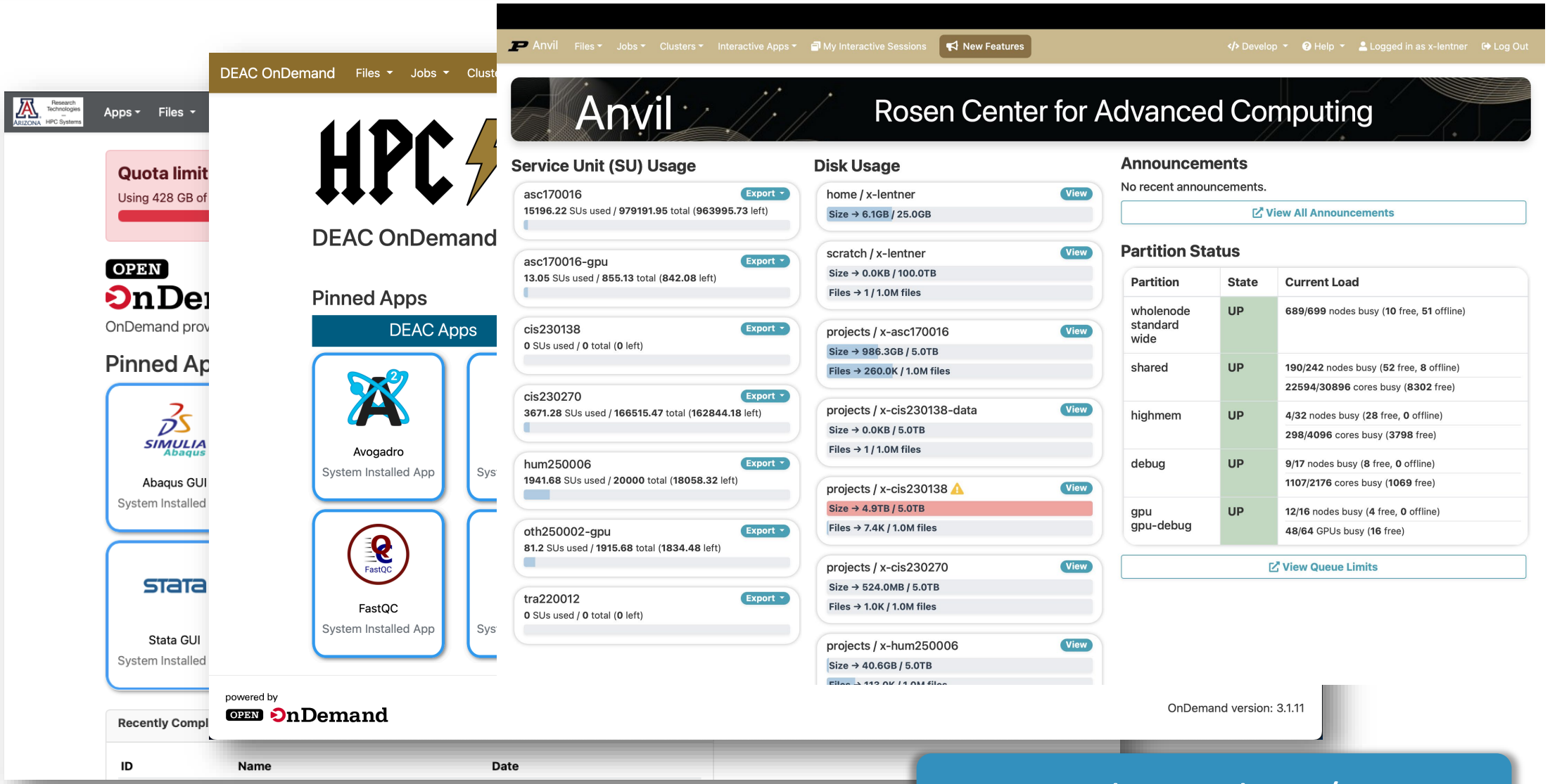
Sample Deployments

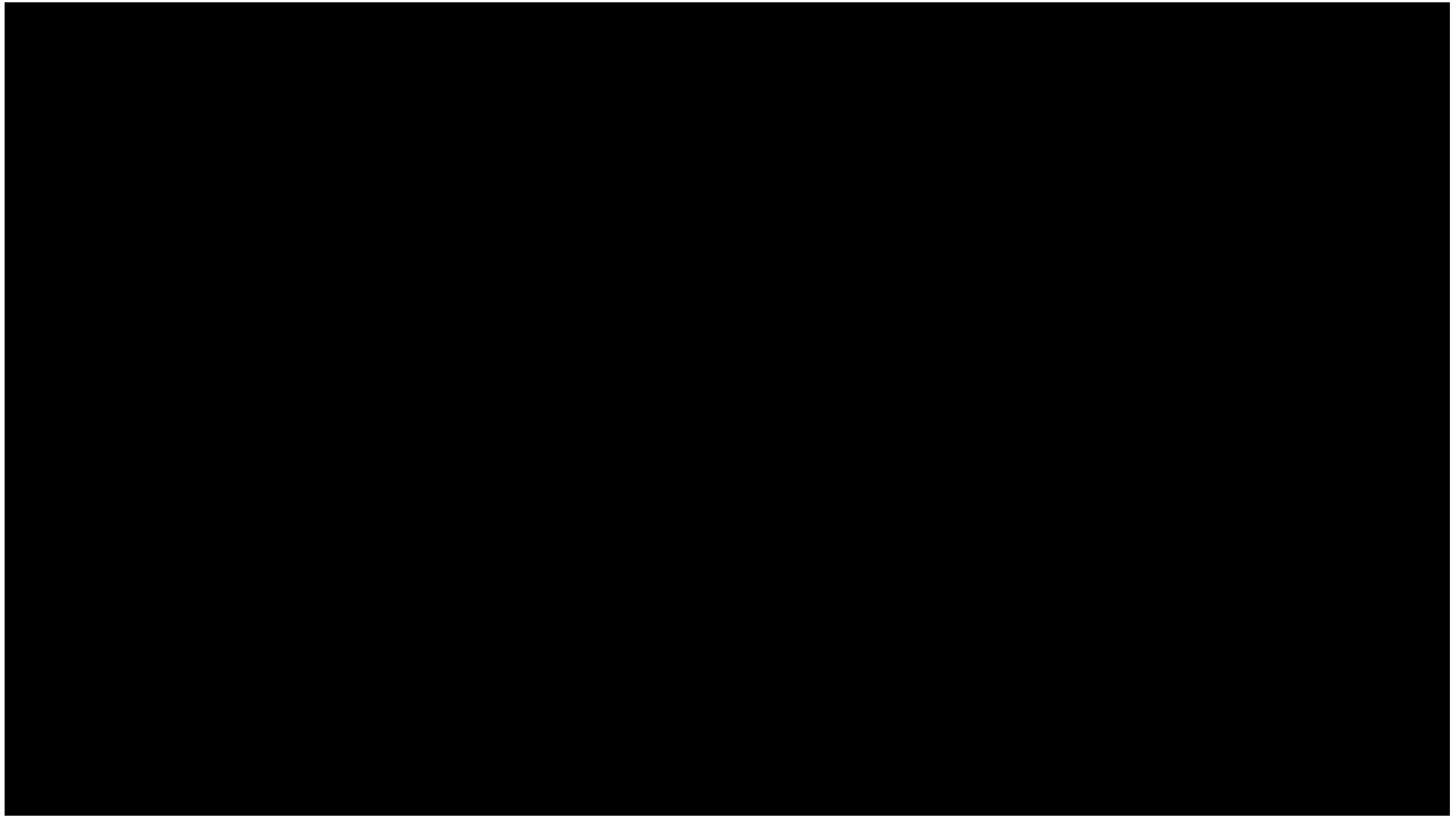
OPEN OnDemand



openondemand.org/custom

Any Challenge, Every Solution

OPEN OnDemand



openondemand.org/anychallenge

Agenda

Introduction

Community Updates

Community Stories

Support Updates

Technical Updates

Q&A

Community Hub

OPEN OnDemand

OPEN OnDemand
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

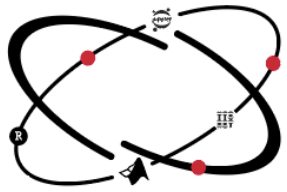
Meet the community using Open OnDemand.

> Member Directory

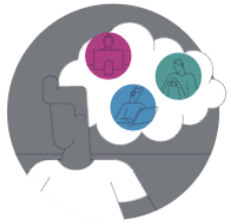
openondemand.org/hub

Affinity Groups

OPEN OnDemand



Appverse



New to Open OnDemand

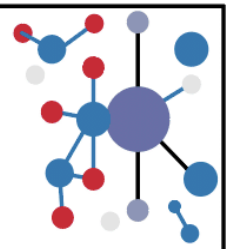
Security Best Practices

Affinity Group Coordinators

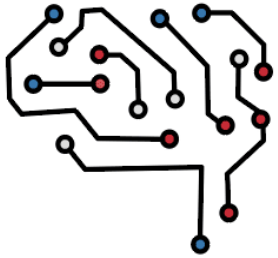
Microsoft Azure

Customizing the Backend

Classroom



Structural Biology Apps



LLMs

Multilingual Community

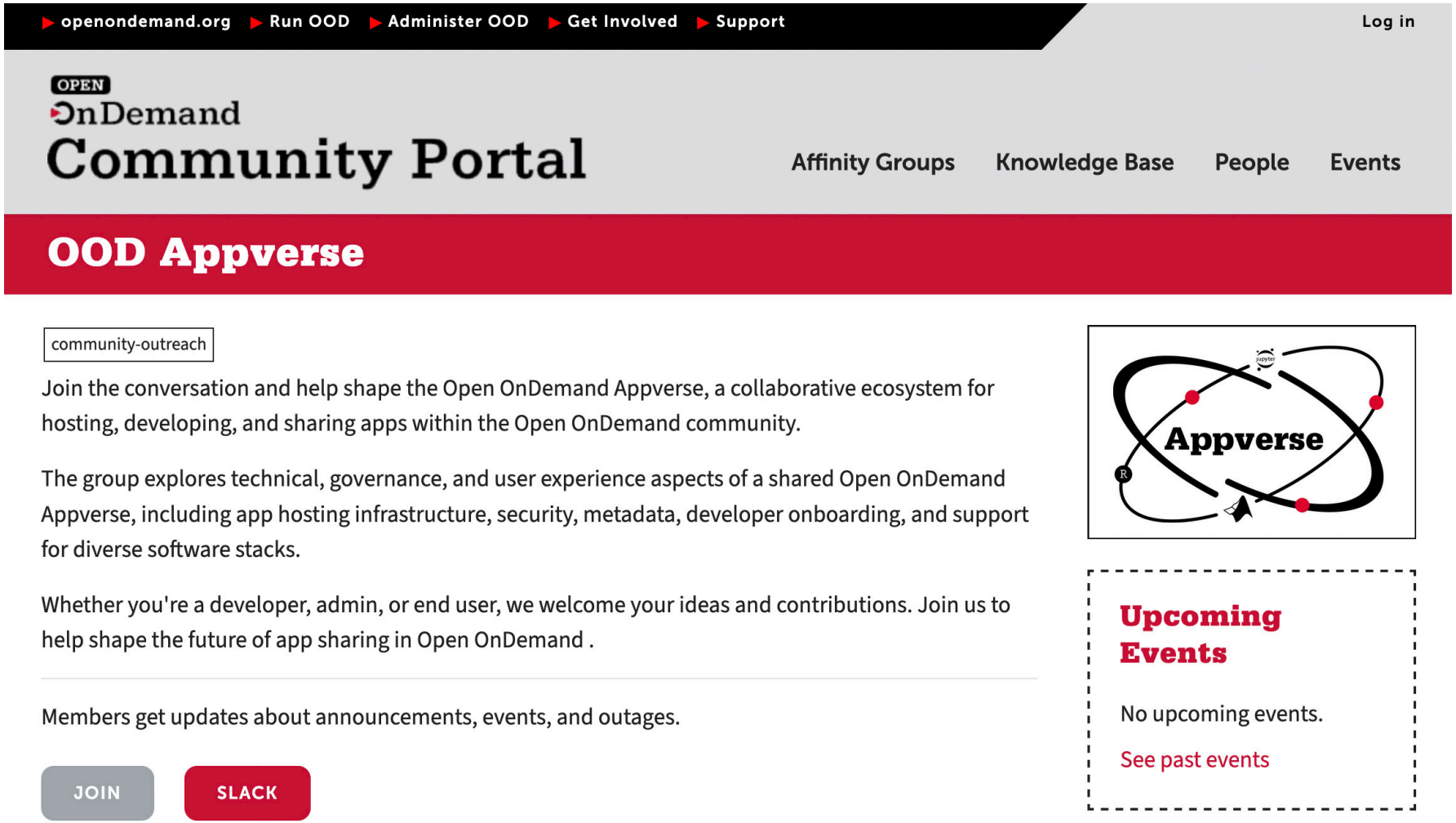
Project Design

Join groups or start a new affinity group

openondemand.org/hub

The Appverse Affinity Group

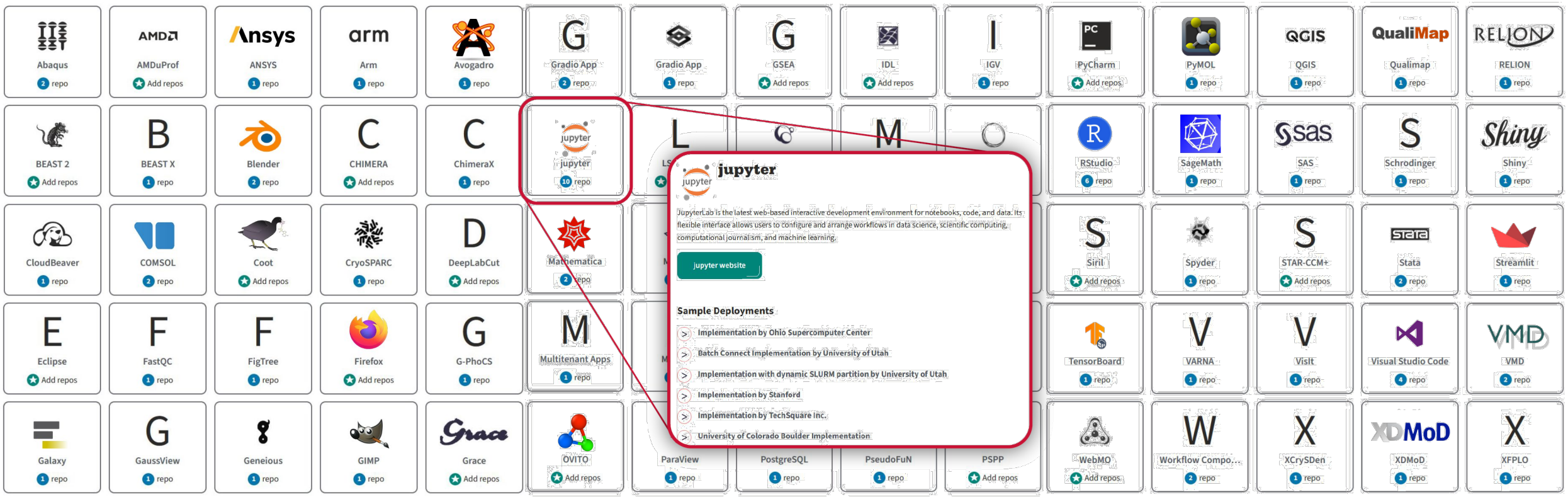
OPEN OnDemand



ondemand.connectci.org/appverse

The Appverse Initiative

OPEN OnDemand

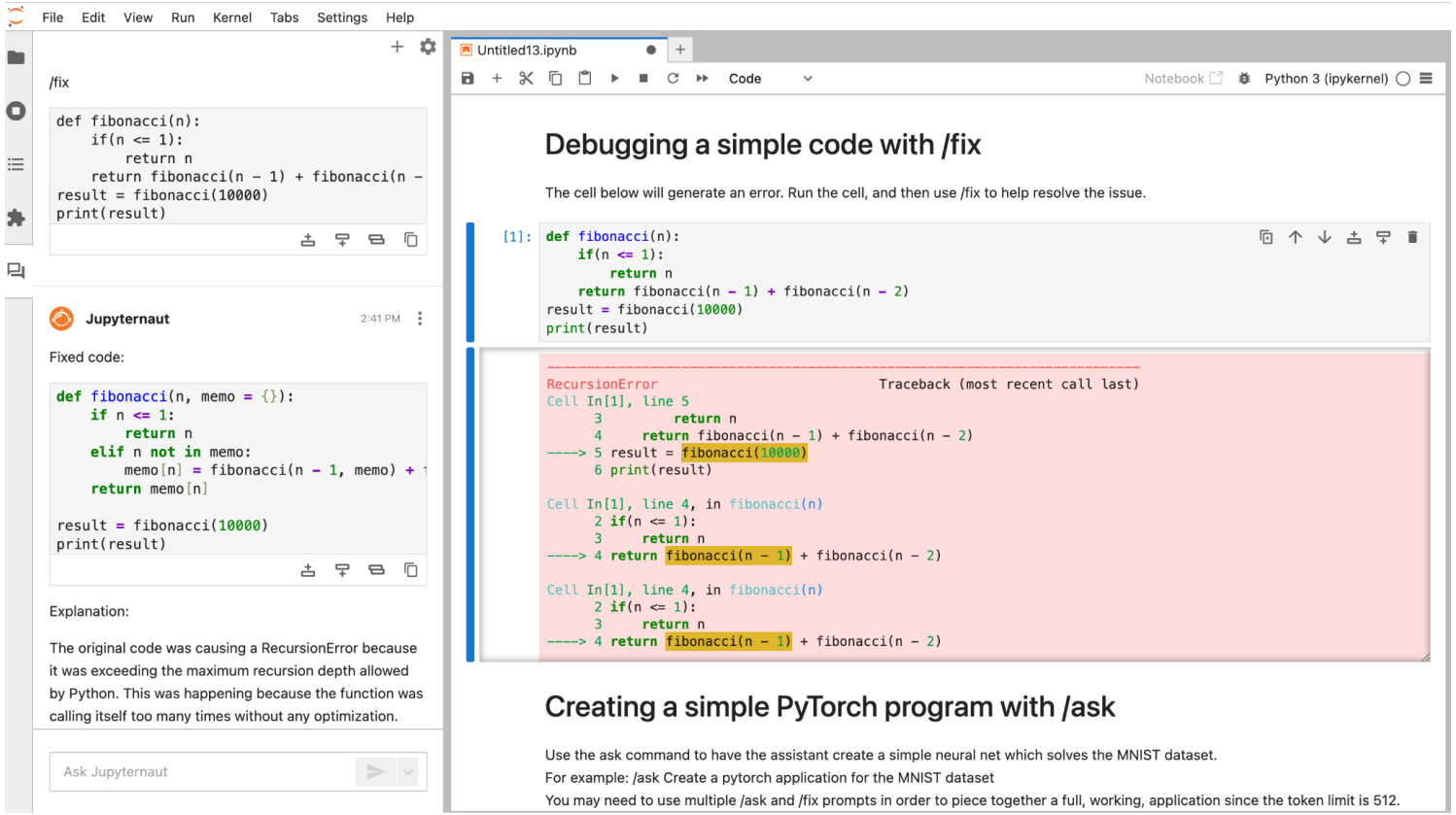


TEXAS A&M UNIVERSITY

openondemand.org/appverse

The Appverse is Coming!

We are gathering information about the existing Open OnDemand apps.



openondemand.org

Annual Conference

OPEN OnDemand

Registration Open!

Explore, Share and Shape the Future of Open OnDemand at the second annual

GOOD

Global Open OnDemand Conference

THE UNIVERSITY OF UTAH | MARCH 9-12, 2026

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

Back by Popular Demand – The Contributor Jam
New in 2026 – AI Track and Appverse Track

Early Bird Incentive - Register by Feb 1, 2026, 11:59pm AOE and receive a limited edition Open OnDemand Baseball Cap!

openondemand.org/good2026

Getting Involved

Contribute to documentation

Draft documentation for a new feature, app, or even fixing a typo.

Contribute code

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

Spread the word

Mention us on LinkedIn @open-ondemand—or simply tell your friends!

Join in on Discourse

Be part of the discussions, pitch a new app or feature, or report a bug.

Engage with us

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

Fund the project

Provide monetary support to our development team or one of our partners. Every gift helps!

openondemand.org/get-involved

Join our Committees

Technical Committee

Oversees software decisions, works with Dev Rel PM to provide guidance on pull requests, bug fixes, releases and updates. Nominates a Steering Council rep.

User Documentation

Writes and maintains documentation to ensure the system admin community can install and the user community can run Open OnDemand quickly and easily.

Contributor Guide

Maintains the Contributor Guide to provide clear, well-defined guidelines for contributing code and documentation to the project.

Community Engagement

Builds the Open OnDemand community through affinity groups, community calls, events, support and partnerships. Nominates a Steering Council representative.

openondemand.org/get-involved

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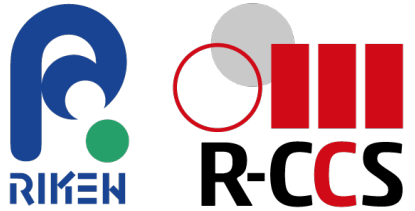
Community Stories

Masahiro Nakao-san



Shinichiro Takizawa-san

Akihiro Nomura-san

Sean Anderson, Ph.D.

openondemand.org/community

Adoption and Growth of Open OnDemand in Japan

Masahiro Nakao (RIKEN R-CCS)

Open OnDemand History in RIKEN R-CCS, Japan

- Jan. 2022: We first learned about Open OnDemand from the paper at HPCAsia 2022

Onboarding Users to A64FX via Open OnDemand

Authors: Aaron Jezghani, Kevin Manalo, Will Powell, Jeffrey Valdez, Jeffrey Young | Authors Info & Claims

HPCAsia '22 Workshops: International Conference on High Performance Computing in Asia-Pacific Region Workshops
Pages 78 - 83 • https://doi.org/10.1145/3503470.3503479

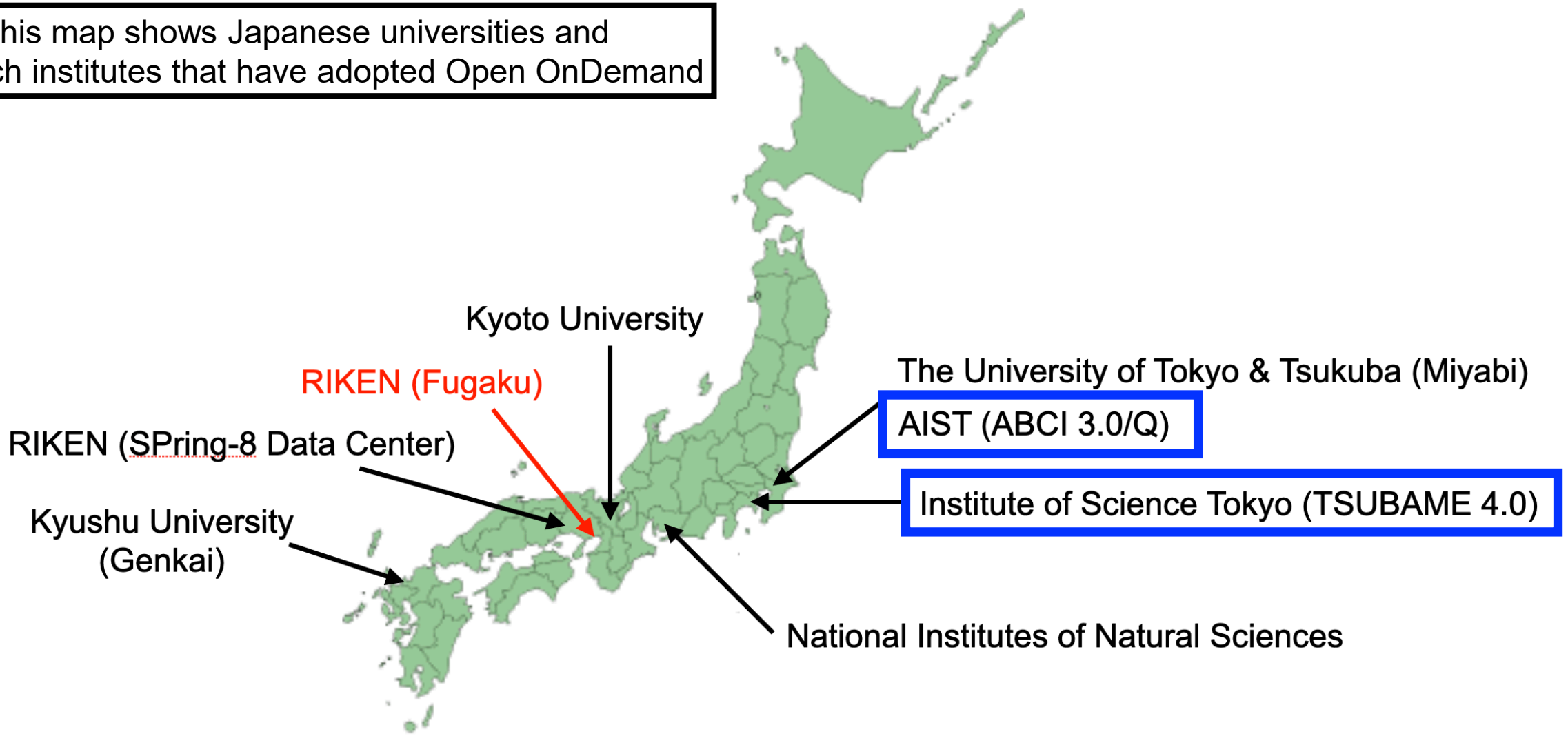
I developed the adaptor of Open OnDemand for Fujitsu TCS, which is a job scheduler used in the Fugaku supercomputer.

- Aug. 2022: We carried out the entire launch of Open OnDemand on Fugaku. This was the first deployment of Open OnDemand on a large-scale supercomputer in Japan
- Sep. 2025: We established Open OnDemand as the first login method for users of Fugaku, replacing SSH

This marks an epoch-making shift in access to Fugaku

Open Ondemand in Japan

This map shows Japanese universities and research institutes that have adopted Open OnDemand

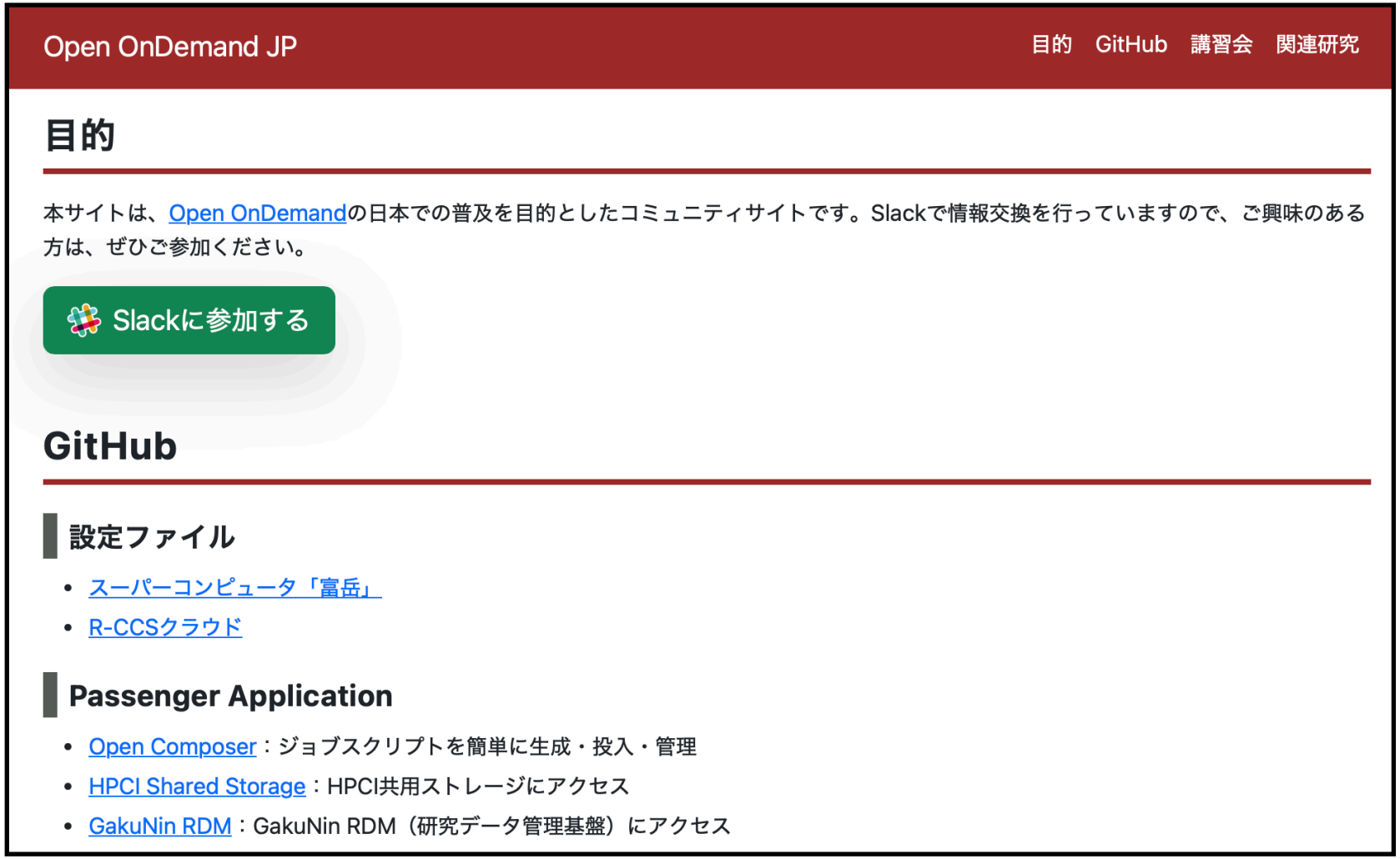


GMO Internet, diamond sponsor in SCA/HPCAsia 2026

https://internet.gmo/news/article/120/

GPU Cloud provided by GMO Internet, Inc. is now available through Open OnDemand

Open OnDemand community site in Japan



https://openondemandjp.github.io

Open OnDemand Workshop in Japan

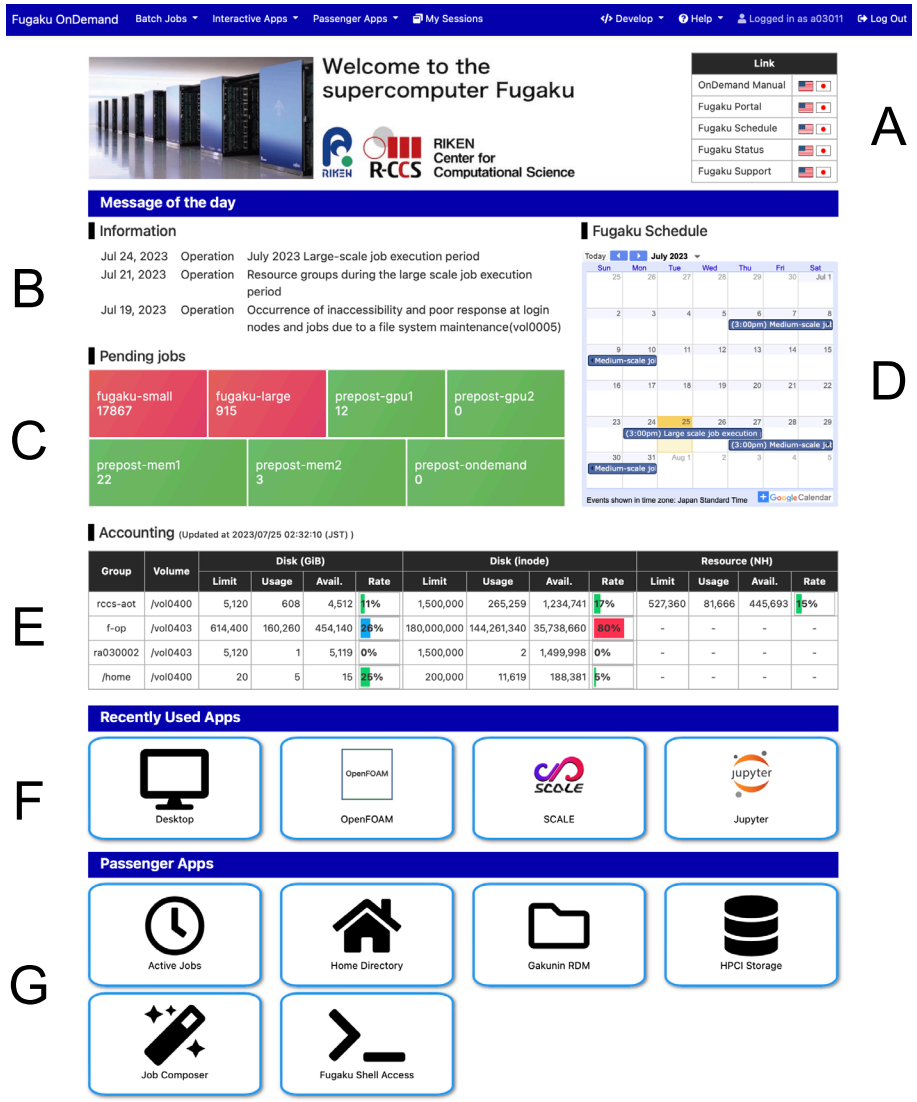
- The 1st workshop was held in October 2023 at RIKEN R-CCS
- The 2nd workshop was held in January 2025 at Kyushu University
- The 3rd workshop will be held in 2026

Sponsored by PC Cluster Consortium

Dashboard of Open OnDemand on Fugaku

We have customized the default template for Fugaku

A. External links (e.g., Fugaku manuals)
B. System status information, including failures and operational notices
C. Number of waiting jobs in each queue (visualized with Grafana)
D. Operational calendar (integrated with Google Calendar)
E. User disk usage and budget utilization
F. Recently used applications
G. Utilities (e.g., File upload, job monitoring)



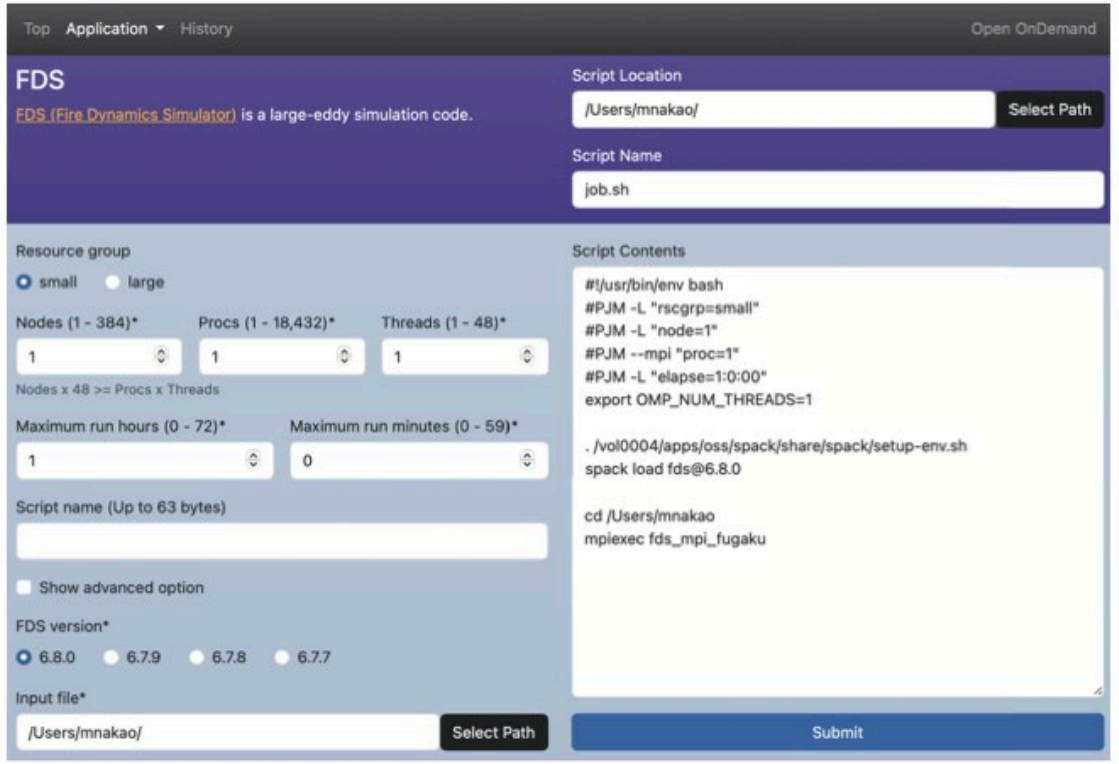
How to submit batch jobs

"Open Composer: A Web-Based Application for Generating and Managing Batch Jobs on HPC Clusters", HUST 2025. https://doi.org/10.1145/3731599.3767428

https://github.com/RIKEN-RCCS/OpenComposer

We have developed Open Composer, a web-based application for generating and managing batch jobs on HPC clusters

- Runs on Open OnDemand
  - Allows easy deployment in any environment where Open OnDemand is available
- Open-source software
- Enables users to generate job scripts automatically by entering parameters into web forms tailored to each application
- Reduces the learning burden of job schedulers and minimizes script-writing errors
- Provides job management, including submission, deletion, and status monitoring



Applications of Open OnDemand on Fugaku

- Interactive Application

Category	Application
Development	Remote Desktop, JupyterLab, MATLAB, VSCode, Terminal
Profiler	NVIDIA Visual Profiler, NVIDIA Nsight Compute, NVIDIA Nsight Systems, Vampir
Viewer	AVS/Express, C-Tools, GaussView, Gnuplot, GrADS, ImageJ, MOLDEN, OpenMX viewer, OVITO, Paraview, PyMOL, SALMON view, Smokeview, VESTA, VMD, VisIt, XCrySDen
Workflow	WHEEL

- Batch Jobs via Open Composer

Category	Application
Climate	SCALE
Computer Aided Engineering	FDS, FFVHC-ACR, FrontFlow (blue/X), FrontISTR, OpenFOAM (Foundation/OpenCFD)
Condensed Matter Physics	ALAMODE, AkaiKKR, HΦ, mVMC, OpenMX, PHASE/0, Quantum Espresso, SALMON
Molecular Dynamics	GENESIS, GROMACS, LAMMPS, MODYLAS, PIMD
Quantum Chemistry	ABINIT-MP, Gaussian, NTChem, SMASH
Quantum Simulation	braket
Experimental Data Processing	KIERTÄÄ

Summary

- This slide introduces the history of Open OnDemand in RIKEN R-CCS, Japan
- The Open OnDemand community site in Japan has been established to share information and facilitate discussions
- The first system to adopt Open OnDemand, Fugaku, has undergone dashboard customizations
- We have developed Open Composer for batch jobs on Open OnDemand

We will continue to promote the adoption and development of Open OnDemand in Japan

AIST
Create the Future, Collaborate Together

The Open OnDemand Use Case in AIST's Quantum-Classical Hybrid Computing Infrastructure

Shinichiro Takizawa
AIST

ABCI-Q: Quantum-Classical Hybrid Computing Infrastructure

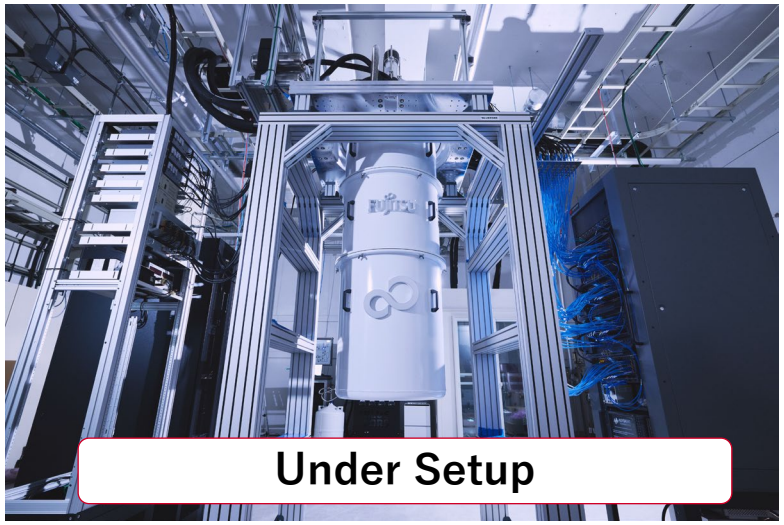
A hybrid computing Infrastructure that integrates a GPU-based supercomputer with multiple types of quantum computers

Users can develop algorithms through simulations on the supercomputer and then perform evaluation on multiple types of actual quantum hardware

System H
GPU Supercomputer

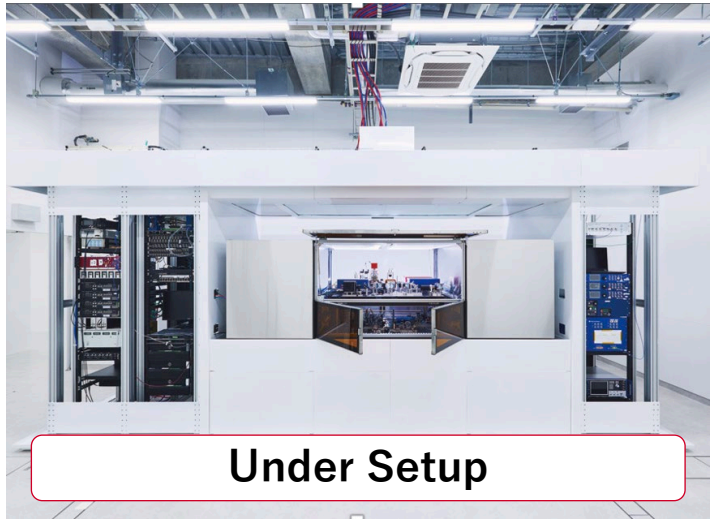
Operation stars from Oct. 2025

System F
Superconducting QC



Under Setup

System Q
Neutral atom QC

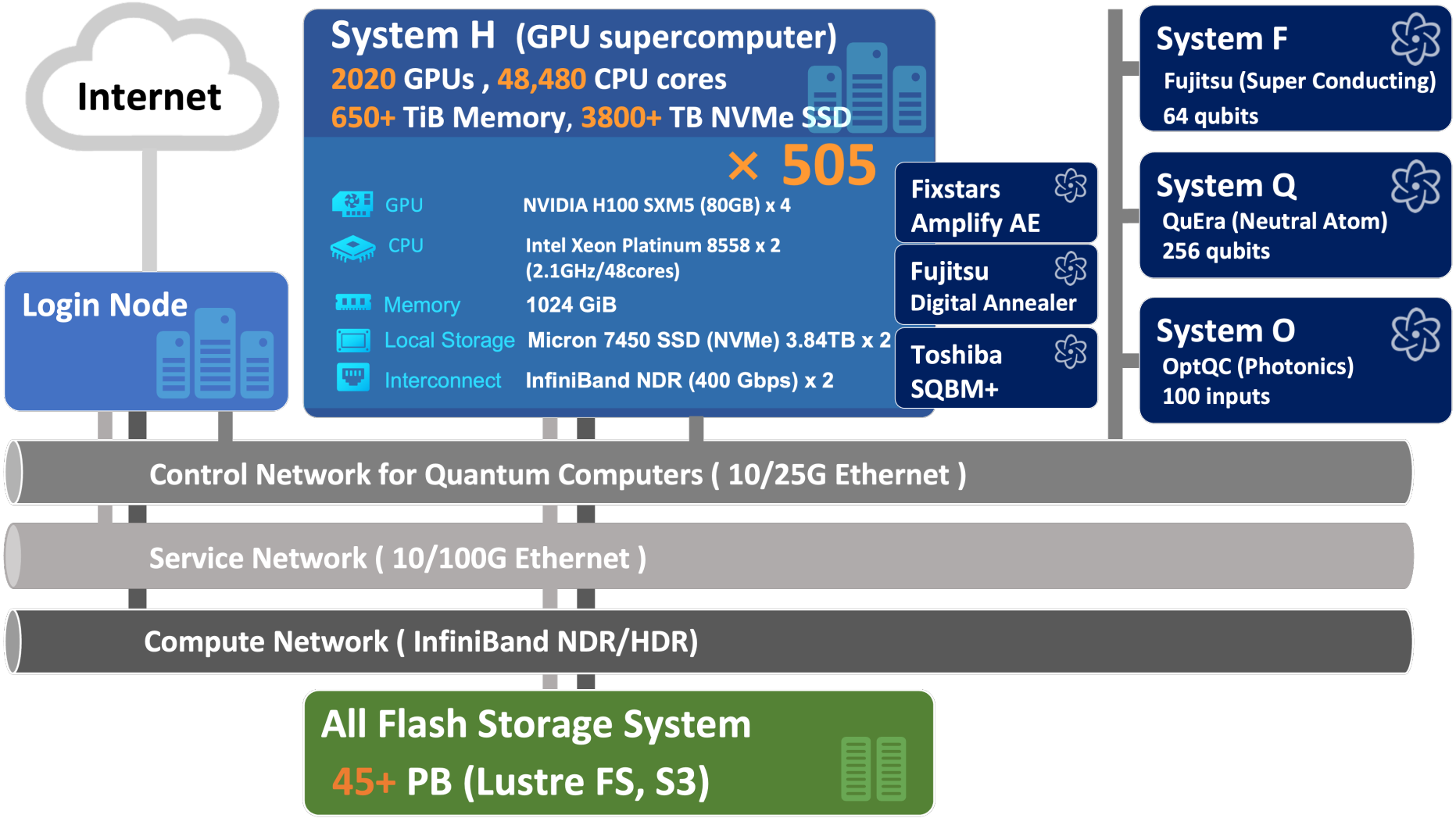


Under Setup

- QCs and GPU supercomputer are connected through a low-latency network
- An Optical QC will be setup in FY2026
- Open OnDemand is a gateway to use ABCI-Q

ABCI-Q: System Overview

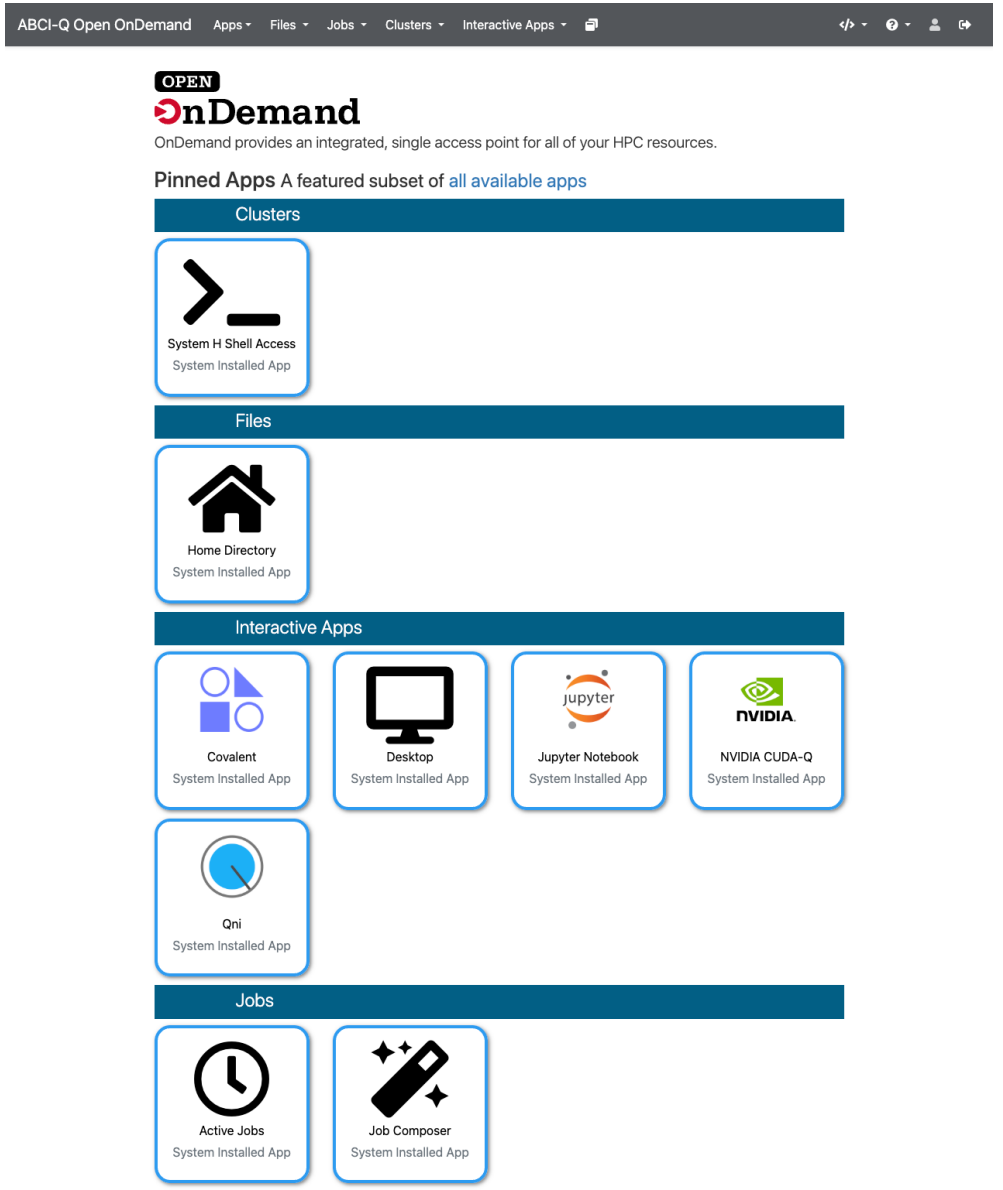
With System H as the core, it is linked to quantum computers through a low-latency campus network



Open OnDemand in ABCI-Q

- Installed with a minimal configuration in the initial ABCI-Q system
  - Version: 3.1.10
  - Replace some logs and characters
  - Enable two-factor authentication by Email-OTP
  - Shell Access to system H, File Browser and Job Composer

- Provide a set of tools useful for quantum algorithm and application development as interactive apps



ABCI-Q Interactive Apps Useful for Quantum Computing

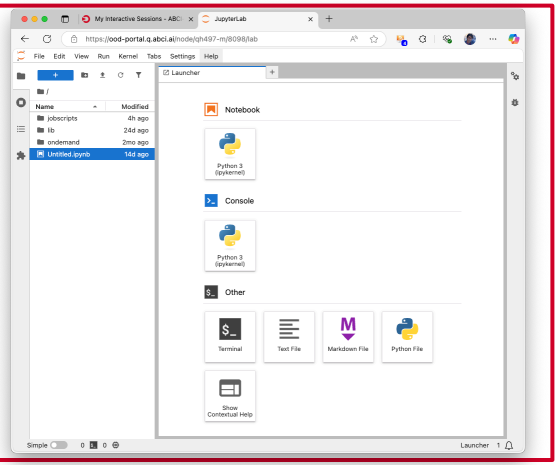
AIST
Create the Future, Collaborate Together

Equipped with applications that can be utilized for R&D in quantum computing

Jupyter Notebook

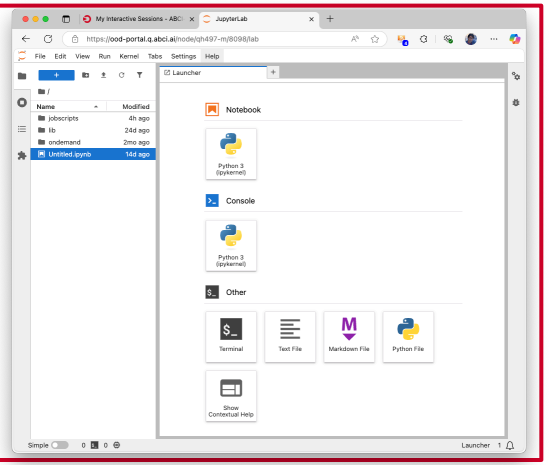
Provides Jupyter Notebook on compute nodes

Enable use of environments for Python and other workloads that leverage GPUs



NVIDIA CUDA Quantum

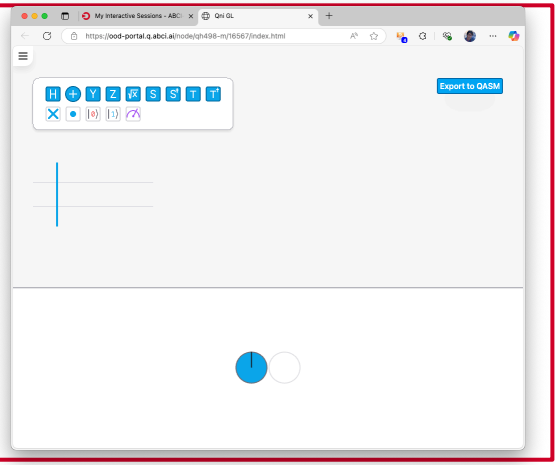
Provide Jupyter Notebook preloaded with NVIDIA CUDA Quantum, A quantum programming framework from NVIDIA



QNI

A web-based quantum circuit editor and simulator

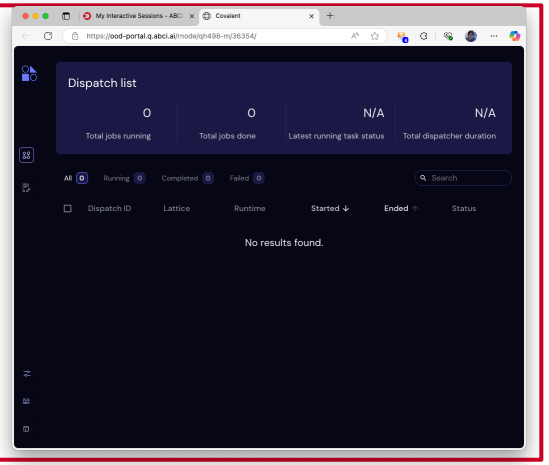
Provides an interactive environment for developing and learning quantum programming



Covalent

A programming environment featuring Covalent workflow orchestration tool and Jupyter Notebook

Provides a workflow development environment for quantum and classical applications



Current Status and Future Plan

Current Status

- The maximum number of concurrent users is around 10 (Active user is not so many as we just started ops…)
- Received feedback that the system has become easier to use compared to the previous system

Future Plan

- Enable Passkey authentication to enhance security
- Provide additional interactive apps based on user feedback and demand
  - VSCode, other workflow orchestrators, tools for AI, etc.
- Customize the top page to provide useful information
  - Provide a system operation schedule
  - Visualize the status of both supercomputing and quantum computing systems
- Encourage users to make use of Open OnDemand
  - Introduce the use of Open OnDemand in hands-on and hackathon events that use ABCI-Q

Open OnDemand in TSUBAME4 Supercomputer

Akihiro Nomura

Center for Information Infrastructure, Science Tokyo

Institute of SCIENCE TOKYO

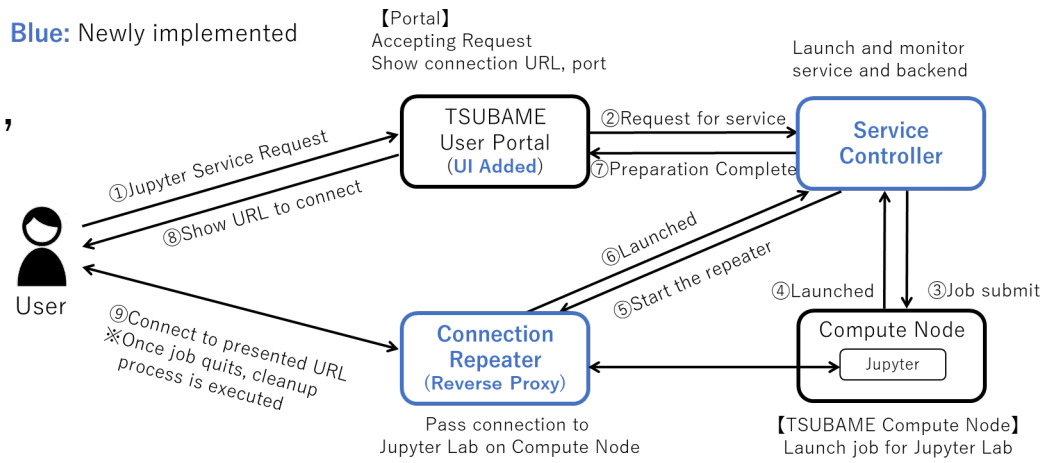
Science Tokyo and TSUBAME4.0

- Institute of Science Tokyo
  - New university came from the merger of Tokyo Institute of Technology(Tokyo Tech) and Tokyo Medical and Dental University (TMDU), established in October 2024.
- TSUBAME 4.0 Supercomputer
  - 4th generation of the supercomputer in Tokyo Tech and Science Tokyo
  - 240 Compute Nodes (HPE Cray XD665)
  - 4x H100 + 2x 96-core EPYC on each node

Before the OoD Era (TSUBAME3.0)

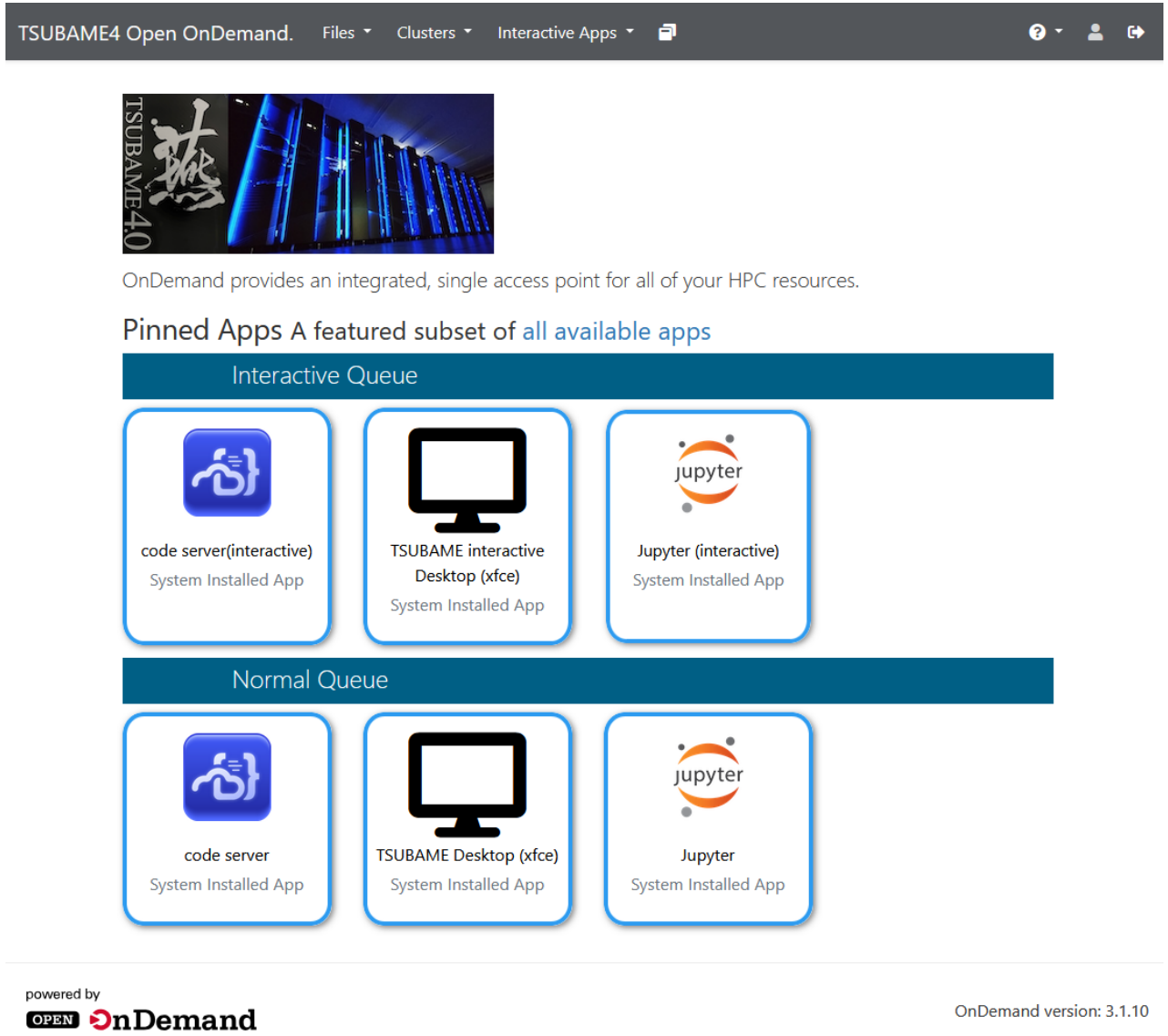
Institute of SCIENCE TOKYO

- We implemented reverse proxy and job submit UI for Jupyter Lab in Compute Nodes (April 2020)
  - To eliminate burden for using Jupyter via web
    - SSH keypair, command line, scheduler command, port forwarding, firewall, …
  - The same objective, functionality as OoD
- Extended to accommodate Code Server and noVNC
- Reinvented the wheel, as no one in Japan know OoD…
- At the timing of TSUBAME4.0 installation (April 2024), we decided to switch to OoD for interoperability.
  - At that timing, RIKEN R-CCS started OoD service in Japan
  - Lots of help from Dr. Nakao @ R-CCS
- Prototype script to run Jupyter via SSH tunnel is still maintained in TSUBAME
  - Support virtual env, customized installation of Jupyter etc.
  - Shell script is easy to customize for expert users



Open OnDemand in TSUBAME4.0

- Limited numbers of applications are natively supported
  - Jupyter Lab
  - Code Server
  - noVNC
    - All GUI apps are expected to be run in noVNC
- Information shown in OoD is also limited to disk quota usage
- Authentication is not connected to user portal
  - Due to conflict with SSO mechanism
  - PassKey(FIDO2) auth is convenient for users
    - No need to check mailbox every time
    - User / Password was not acceptable



TSUBAME4.0 User Portfolio

Institute of SCIENCE TOKYO

Number of users since April 2024	4668
Number of currently active users	2925
Number of users who actually used TSUBAME4 in some way	2047
Number of users who logged in via OoD	980
Number of users who logged in via SSH	1804

- 243 users are using TSUBAME4 only via OoD
- Interactive and web-based use of TSUBAME4 accelerated classroom lectures
  - Before the introduction of OoD, it tool >40 mins to set up SSH key-pair

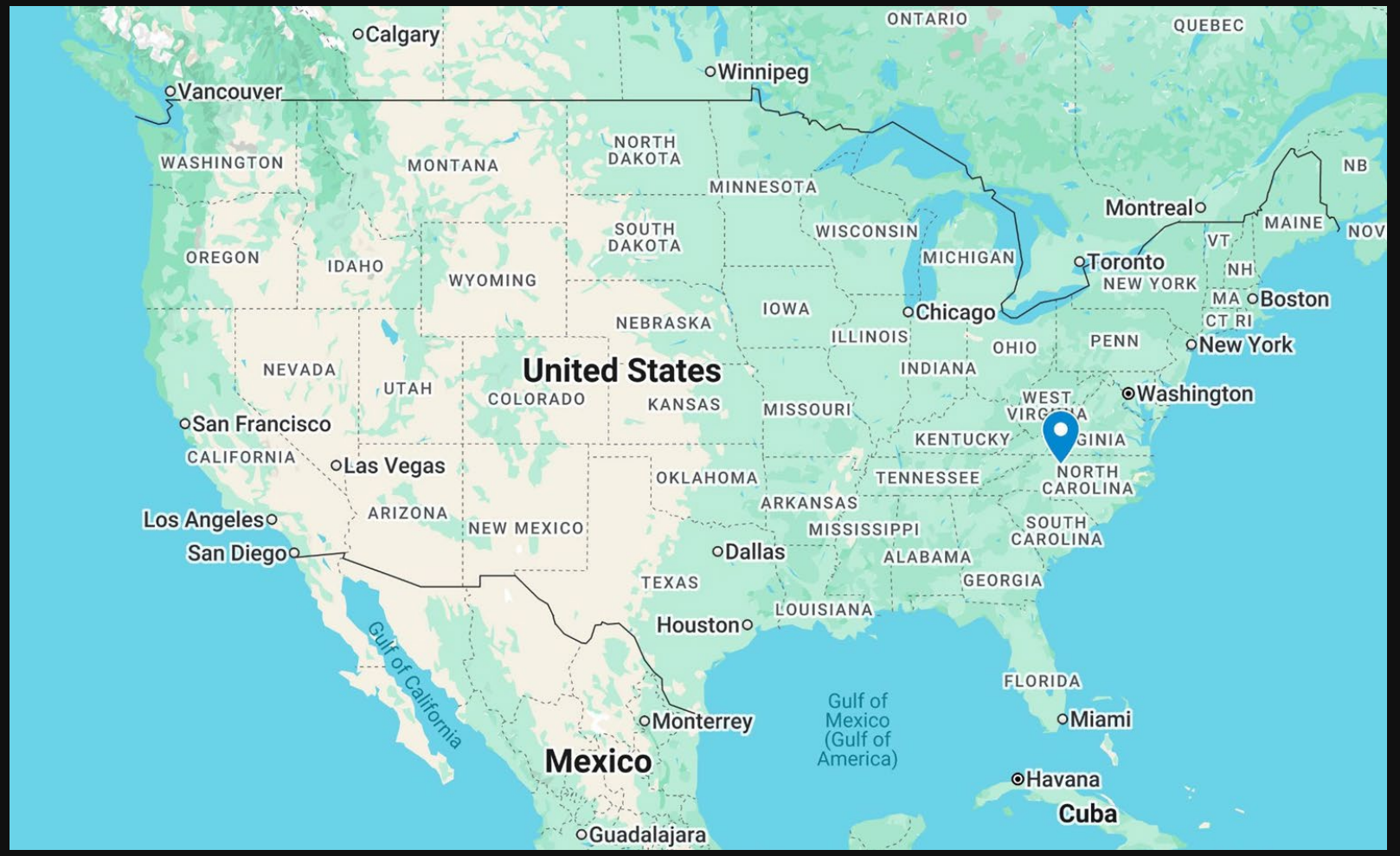
Future Plan related to OoD

- Introduction of Open Composer (job submitter interface by Nakao-san)
- Introducing single sign-on mechanism in HPCI (Japanese HPC federations)
  - We already have Keycloak for HPCI SSO
  - Trying to introduce username mapping between HPCI and TSUBAME4
  - Once it works, planning to extend this to other HPCI sites in Japan to enable single-sign-on in supercomputer usage
    - SSH-based SSO is never used, as .ssh/config is easier to introduce than special SSH implementation
- Displaying remaining allocation
- Adding more GUI-based apps (lower priority, as noVNC can be used for this)

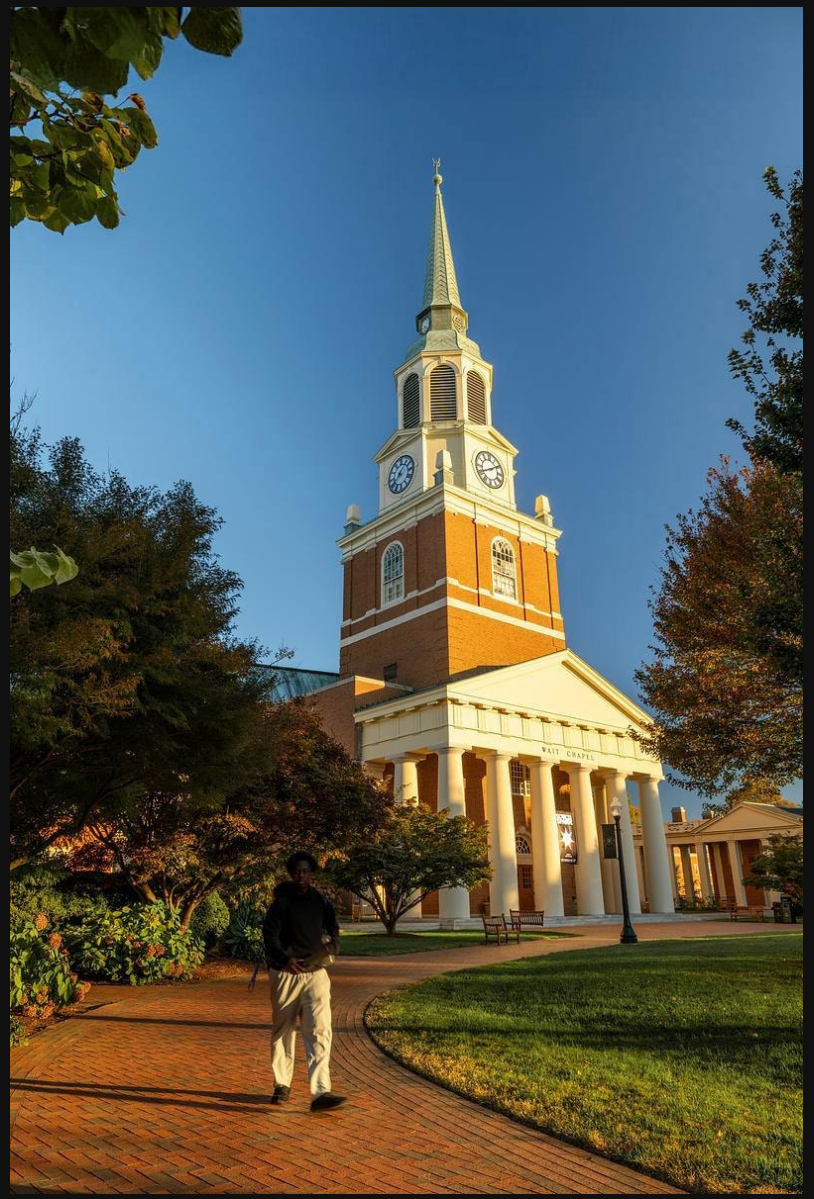
Open OnDemand at WFU

Sean Anderson

WAKE FOREST UNIVERSITY



Winston-Salem, North Carolina


WAIT CHAPEL

Wake Forest University

- **Established 1834** (192 years)
- Private, liberal arts
- R2 Classification
- **Students: 9,322**
  - Undergraduate: 5,490
  - Graduate: 3,832
- **Full-time Employees: 8,084**
  - Faculty: 2,745
  - Staff: 5,339

Wake Forest University

10 to 1

Student-to-faculty ratio


Unstructured Data
Example
Formats
Unstructured Data
Example
Formats


EXIT

The HPC Team

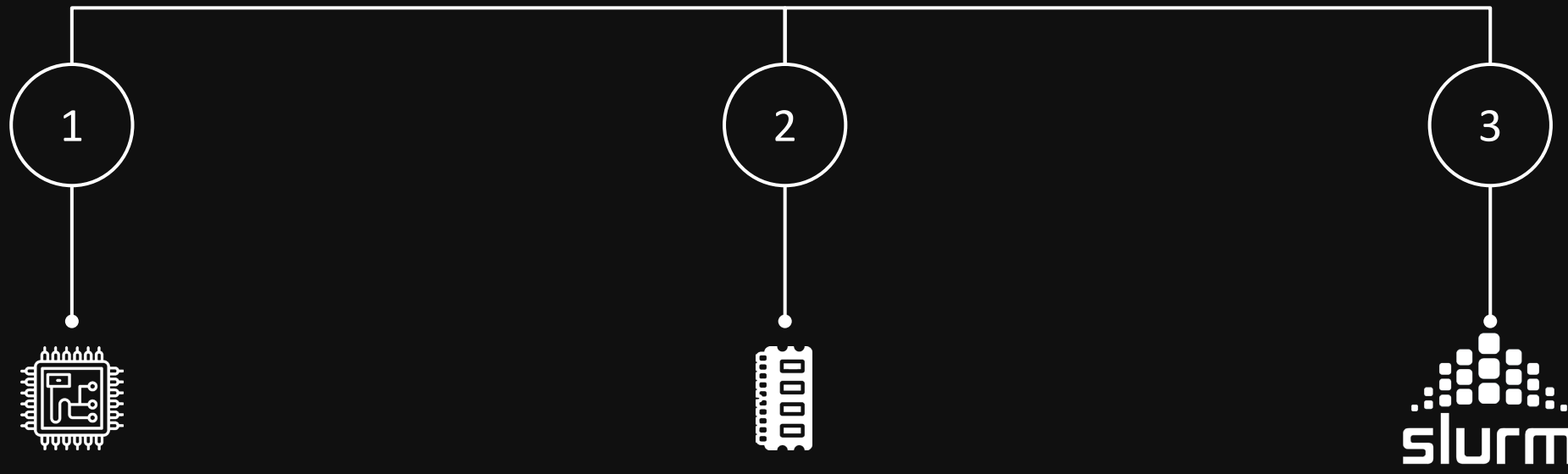
The DEAC Cluster

111 Compute Nodes

CPUs	Memory	Storage	GPUs
5984 Cores	54 TB	1 PB	38 H200/L40 A100/V100

DEAC Educational Cluster

16 Compute Nodes



CPUs

704 Cores

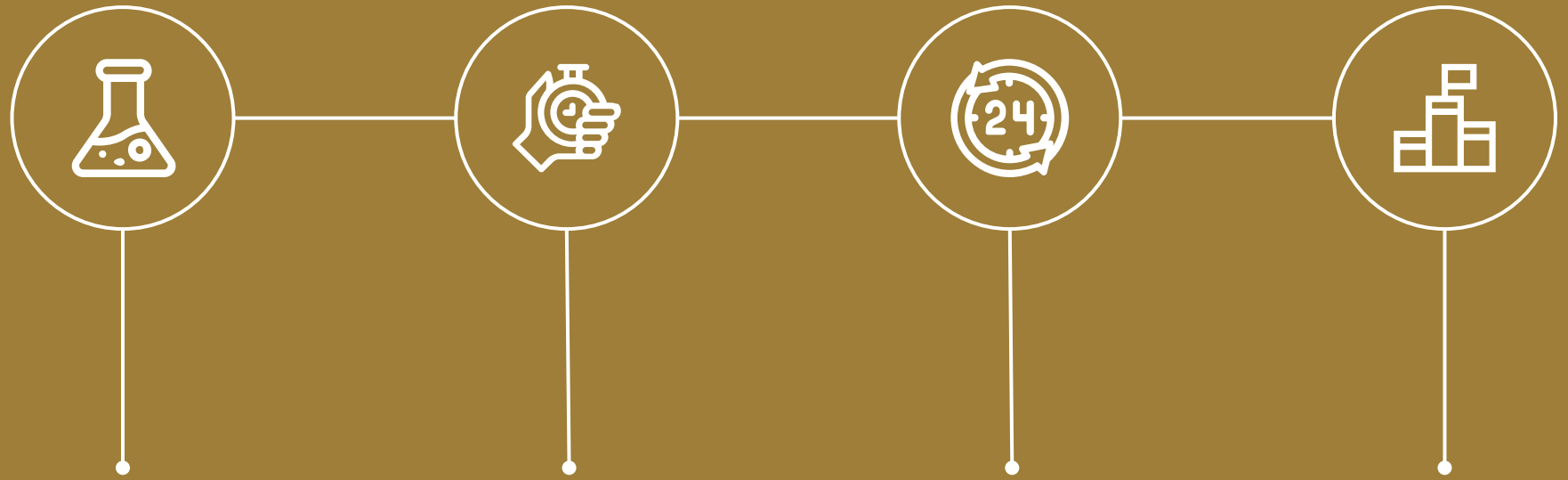
Memory

2.9 TB

Max. Time

48 Hours

General Impact



500

Active Accounts

3 Million

Jobs/Year Average

25 Million

CoreHours/Year Average

18

Departments

Open OnDemand Impact

2024	2025
210	381

81% increase after OOD

Open OnDemand Impact

Unique Users	OOD Users
381	283

74% after first year

Departments & Programs

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

Wake Lake

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

What is the Wake Lake?

Wake Lake is a proprietary data lake environment designed to immerse MSBA students in the realities of modern data work. It houses a diverse collection of raw, messy, and unstructured data sets that reflect the complexity of real-world business environments. Wake Lake gives students the opportunity to engage in hands-on data wrangling, problem framing, and analysis from day one.

Powered by HPC DEAC

Explore the datasets in the Wake Lake:

- Wake Lake Directory
- Wake Lake Index
- Retail
- Exchange
- Crypto

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

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Powered by HPC DEAC

Explore the datasets in the Wake Lake:

- Wake Lake Directory
- Wake Lake Index
- Retail
- Exchange
- Crypto

Pinned Apps

Data Exploration

Jupyter Notebook
System Installed App

RStudio
System Installed App

Databases and Database Administration

DBeaver
System Installed App

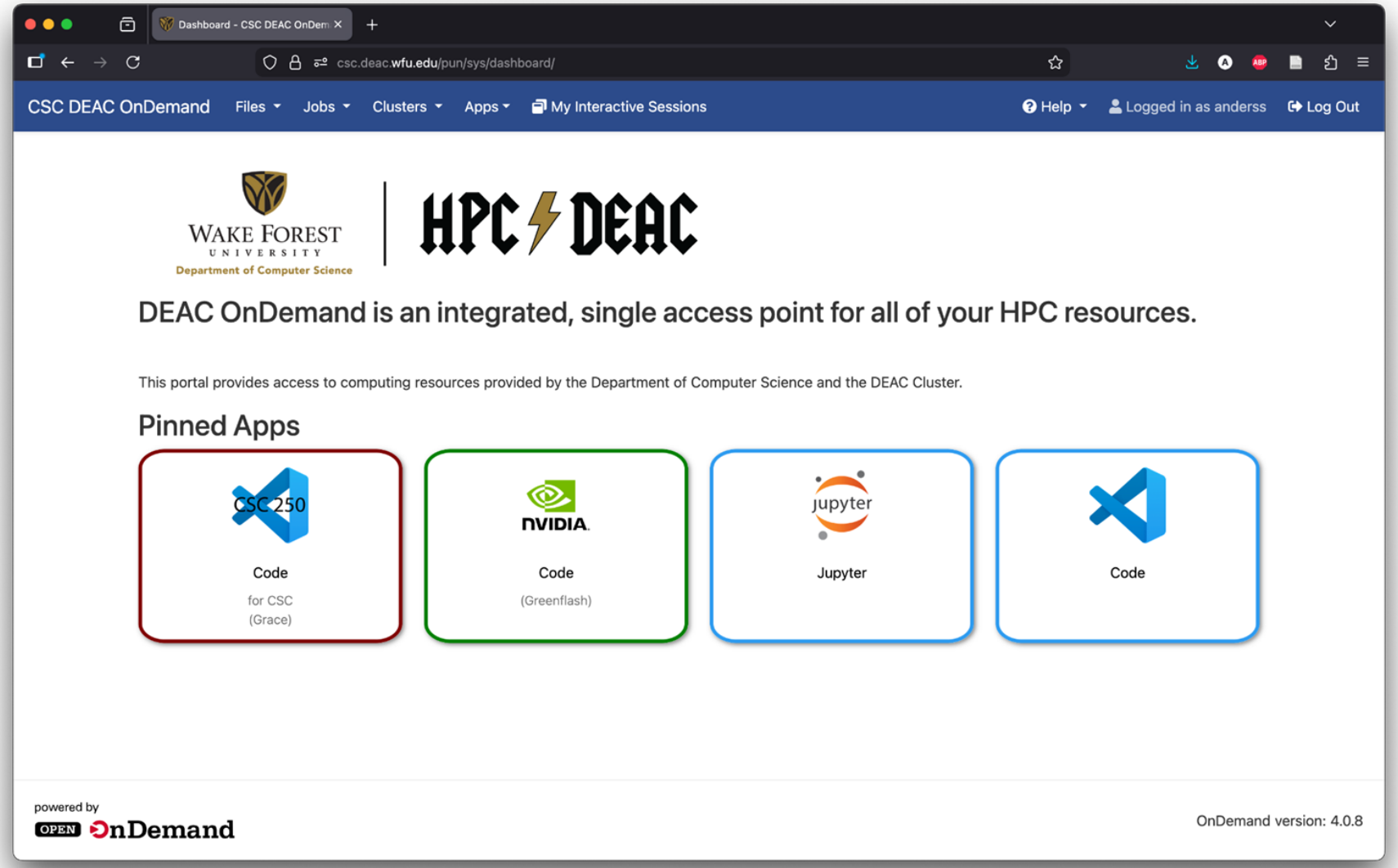
Integrated Development Environments (IDEs)

Code
System Installed App

powered by OPEN OnDemand

OnDemand version: 4.0.3

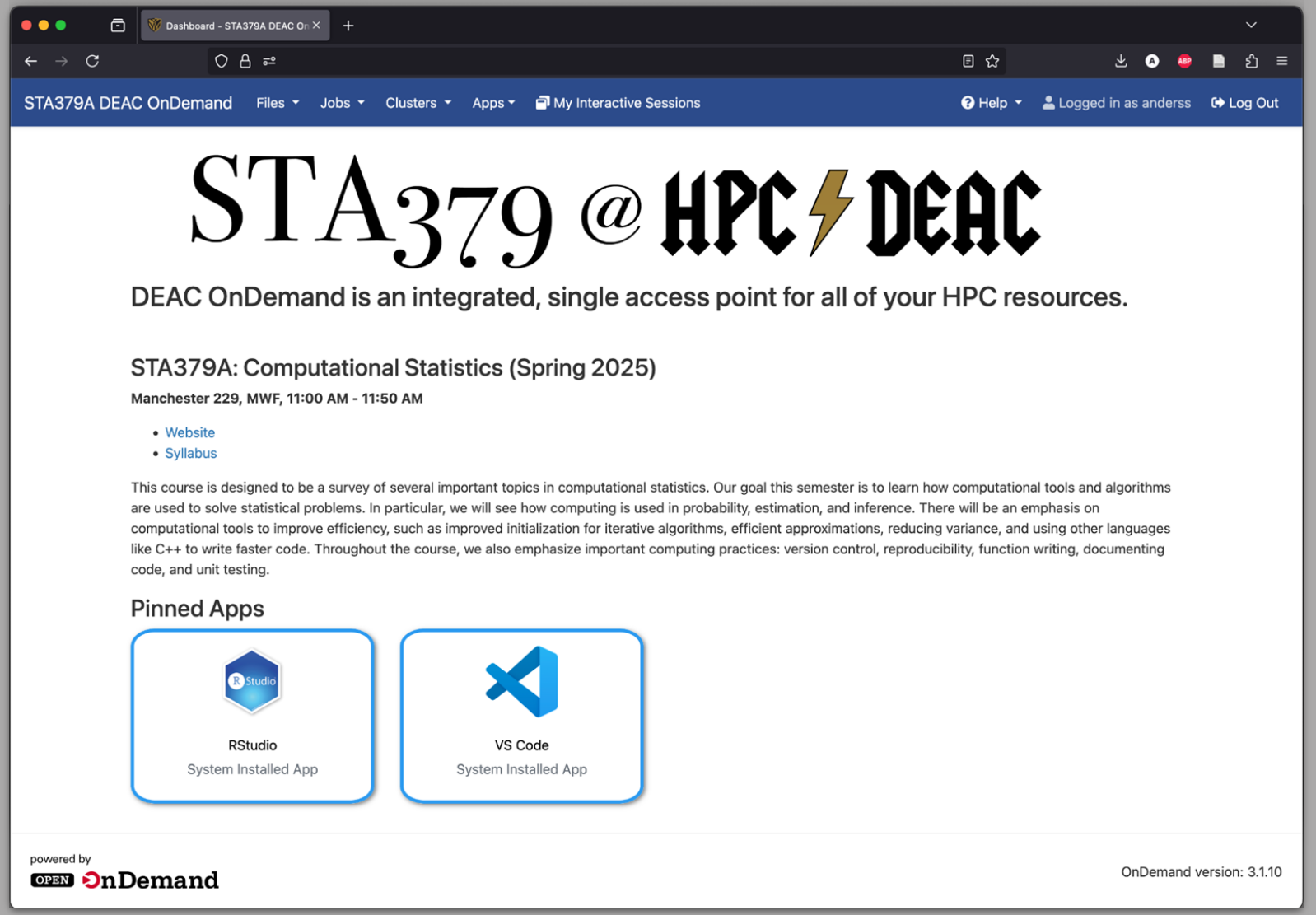
Departments & Programs

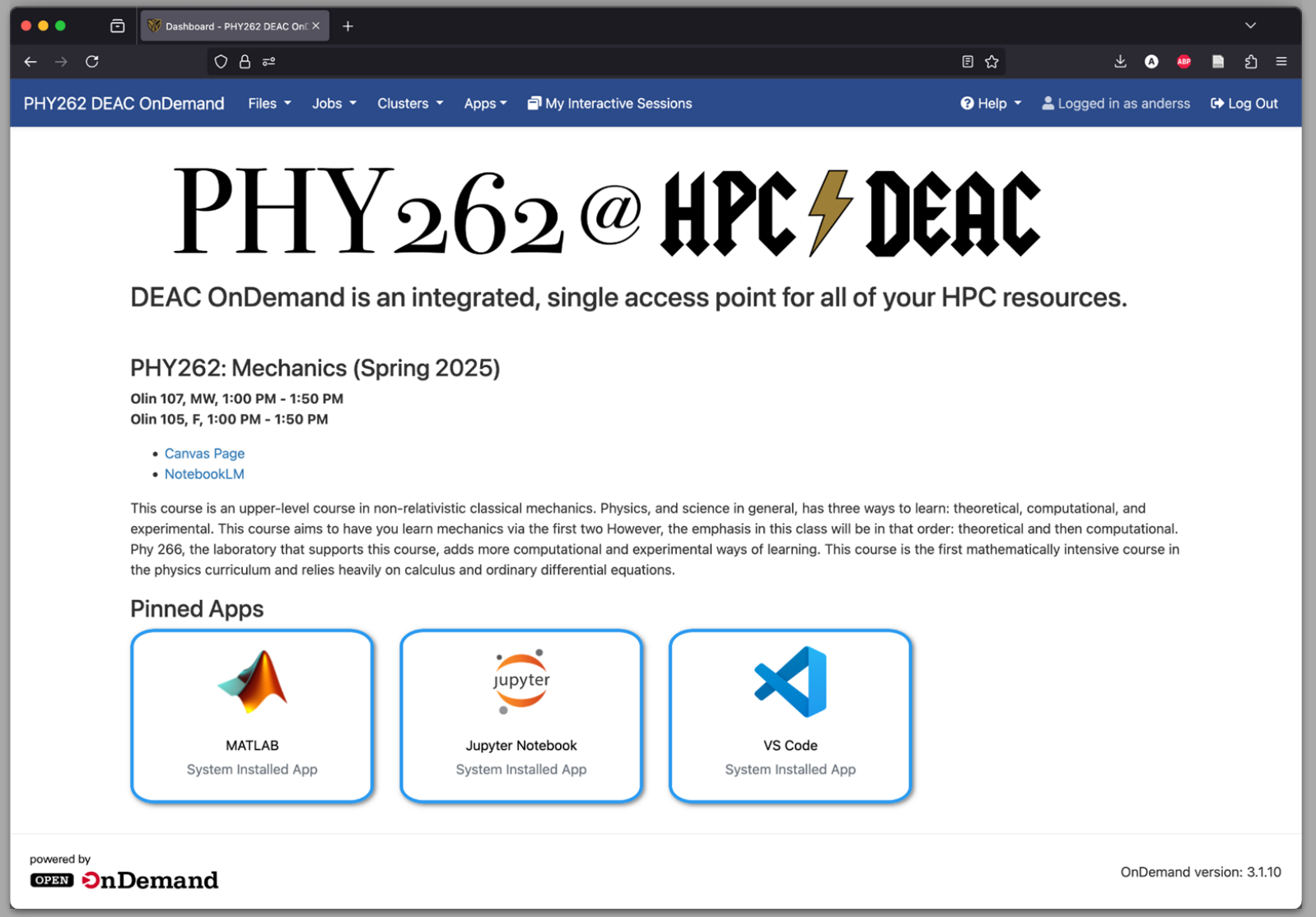


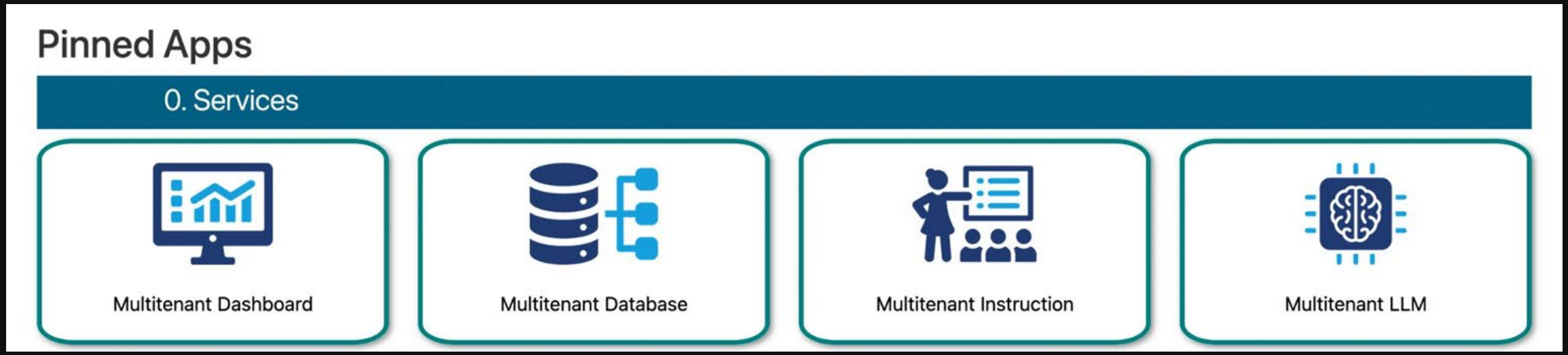
Classes

Since 2025:

- 17 unique courses
- 7 different departments:
  - Business
  - Chemistry
  - Computer Science
  - Finance
  - Physics
  - Psychology
  - Statistics

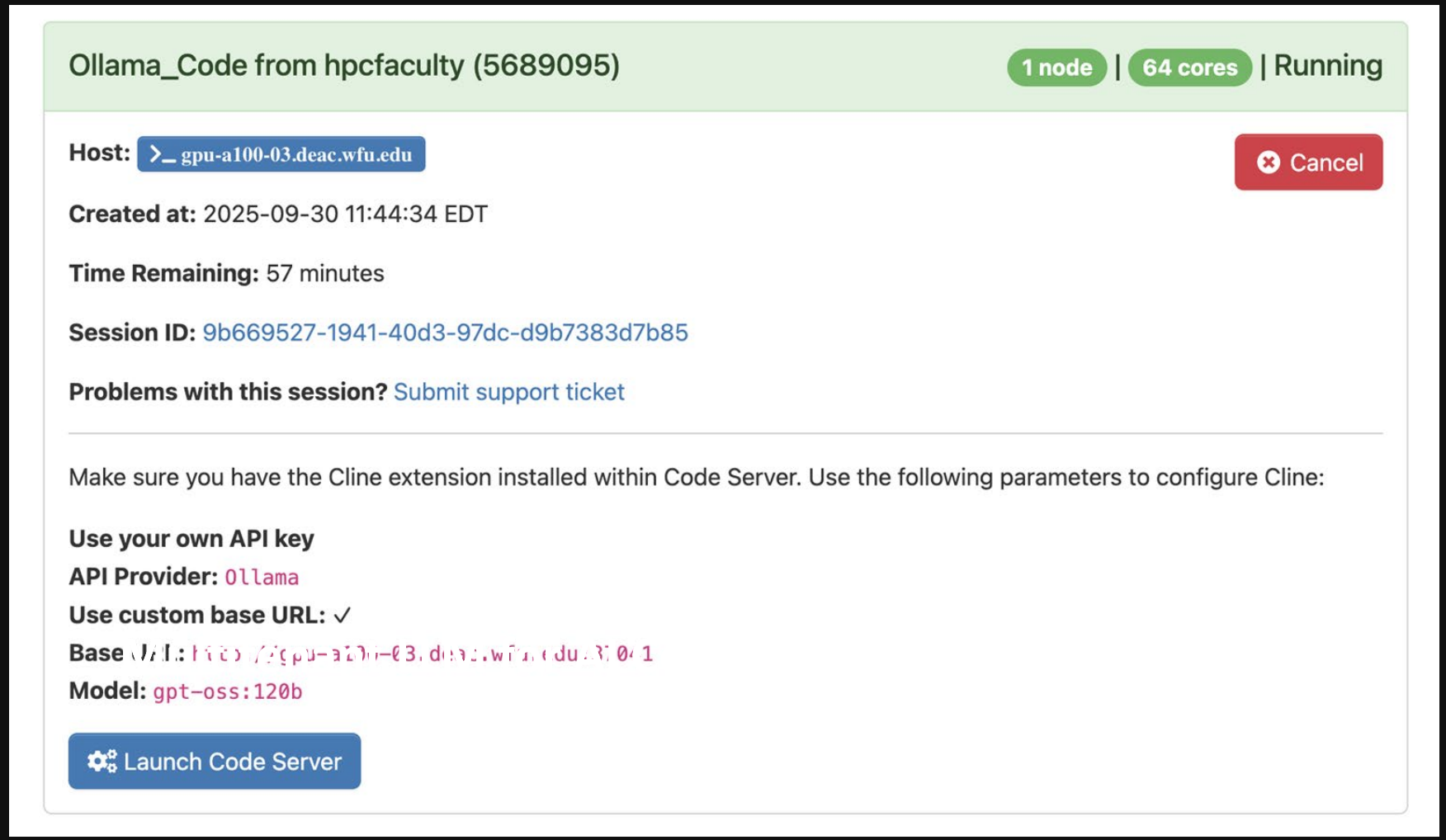

Dashboard - STA379A DEAC O
STA379A DEAC OnDemand
Files
Jobs
Clusters
Apps
My Interactive Sessions
Help
Logged in as anderss
Log Out
STA379 @ HPC DEAC
DEAC OnDemand is an integrated, single access point for all of your HPC resources.
STA379A: Computational Statistics (Spring 2025)
Manchester 229, MWF, 11:00 AM - 11:50 AM
Website
Syllabus
This course is designed to be a survey of several important topics in computational statistics. Our goal this semester is to learn how computational tools and algorithms are used to solve statistical problems. In particular, we will see how computing is used in probability, estimation, and inference. There will be an emphasis on computational tools to improve efficiency, such as improved initialization for iterative algorithms, efficient approximations, reducing variance, and using other languages like C++ to write faster code. Throughout the course, we also emphasize important computing practices: version control, reproducibility, function writing, documenting code, and unit testing.
Pinned Apps
RStudio
System Installed App
VS Code
System Installed App
powered by
OPEN OnDemand
OnDemand version: 3.1.10


Dashboard - PHY262 DEAC On
PHY262 DEAC OnDemand
Files
Jobs
Clusters
Apps
My Interactive Sessions
Help
Logged in as anderss
Log Out
PHY262 @ HPC DEAC
DEAC OnDemand is an integrated, single access point for all of your HPC resources.
PHY262: Mechanics (Spring 2025)
Olin 107, MW, 1:00 PM - 1:50 PM
Olin 105, F, 1:00 PM - 1:50 PM
Canvas Page
NotebookLM
This course is an upper-level course in non-relativistic classical mechanics. Physics, and science in general, has three ways to learn: theoretical, computational, and experimental. This course aims to have you learn mechanics via the first two However, the emphasis in this class will be in that order: theoretical and then computational. Phy 266, the laboratory that supports this course, adds more computational and experimental ways of learning. This course is the first mathematically intensive course in the physics curriculum and relies heavily on calculus and ordinary differential equations.
Pinned Apps
MATLAB
System Installed App
jupyter
Jupyter Notebook
System Installed App
VS Code
System Installed App
powered by
OPEN OnDemand
OnDemand version: 3.1.10



Multitenant Apps: Sharing LLMs, databases, dashboards, and content between users

github.com/WFU-HPC/OOD-MultitenantApps



Multitenant LLM for AI Coding

All done with vanilla OnDemand & Slurm

Thank You!

anderss@wfu.edu

https://hpc.wfu.edu

WAKE FOREST UNIVERSITY

Agenda

Introduction

Community Updates

Community Stories

Support Updates

Technical Updates

Q&A

Community Events

Open office hours

Join our development team on Zoom to ask questions or share suggestions.

2nd Tuesdays, 11:15 AM to 12:45 PM ET

Tips and tricks calls

Community-hosted webinars sharing best practices for setting up and using Open OnDemand.

Next Americas call, hosted by the University of Utah:
2/5 1:00 PM EST (UTC-5)

Next Asia Pacific call, hosted by Do IT Now:
2/16 4:00 PM NZDT (UTC+13)

***NEW* EMEA call, hosted by Do IT Now:**
2/5 4:00 PM CET (UTC+1)

openondemand.org/events

Free Support Program

OPEN OnDemand

Discuss on Discourse

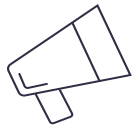
The Get Help category features user and admin questions and answers.
openondemand.org/discourse

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

OPEN OnDemand

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.
✓ Public office hours ✓ Public discussion boards ✓ Public GitHub troubleshooting ✓ Public events	✓ Private Discourse & GitHub access ✓ Early access to updates	✓ 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	✓ 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

openondemand.org/subscribe

Paid Support Program

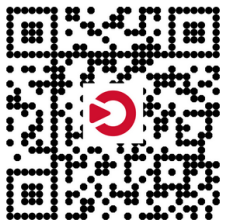
OPEN OnDemand

Double your support sessions

Pro	Elite
✓ Upgrade from 3 private support sessions to 6 private support sessions on a set calendar per quarter	✓ Upgrade from 6 private “choose your time” support sessions to 12 private “choose your time” support sessions per quarter

Ensure Open OnDemand Sustainability

Visit **openondemand.org/subscribe** for more information or email **info@openondemand.org** to enroll in the Open OnDemand Support Program.



openondemand.org/subscribe

Agenda

Introduction

Community Updates

Community Stories

Support Updates

Technical Updates

Q&A

Important Notes for 4.0.x

- Timeline: January 2025 – November 2025
- Focus:
  - 3 new scheduler contributions
  - Passenger improvements
  - Key security patches with related CVE (Common Vulnerabilities and Exposures) records
  - Numerous fixes and enhancements

Please consider upgrading your Open OnDemand instance to mitigate the security vulnerabilities.

openondemand.org/discourse

Site Configuration

OPEN OnDemand

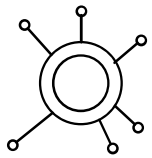
Known authentication protocols and solutions

OIDC/OAuth 2.0, CAS, SAML, LDAP and Kerberos
Shibboleth, Dex, Keycloak, ADFS, Microsoft Entra ID, and CAS

Known scheduler integrations

Slurm, Torque, PBSPro, LSF, Grid Engine, Linux Host, Cloudy Cluster, Kubernetes, Systemd, **HTCondor**, **PSI/J**, and **Coder/OpenStack**





openondemand.org/run

4.1 Features and Enhancements

- Timeline: Coming very soon!
- Focus:
  - Simple support for proxying over https to interactive applications.
  - Major updates to the Project Manager – improved file management, templates, composite job workflow, collaborative projects
  - Integrated module browser to view module information on your clusters.
  - Widget updates - file quotas, balances, system status, ACCESS RP
  - Software Bill of Materials (SBOM) and improved release documentation
  - Accessibility Conformance Report (ACR) based on WCAG Level A and Level AA.

New Widgets

OPEN OnDemand

File Quotas

/users/PZS0714: Using 1.86 million files of quota 2 million files

93%

/fs/ess/PZS0715: Using 2.89 million files of quota 4 million files (11 files are yours)

72%

/fs/ess/PZS1118: Using 291 GB of quota 500 GB (4.94 MB are yours)

58%

/fs/ess/PZS0714: Using 2.72 TB of quota 5 TB (2.66 TB are yours)

54%

/fs/ess/PAS1604: Using 519 thousand files of quota 1 million files (487 thousand files are yours)

51%

/fs/project/PAS1604: Using 519 thousand files of quota 1 million files (487 thousand files are yours)

51%

/users/PZS0714: Using 208 GB of quota 500 GB

41%

/fs/ess/PAS1604: Using 1.99 TB of quota 5 TB (1.1 TB are yours)

39%

Project Balances

PZS0714: dollar balance has an estimated 21 days remaining

PAS0854: dollar balance has an estimated 51 days remaining

openondemand.org/github

Integrated Module Browser

OPEN OnDemand

Module Browser

Last updated: 2025-07-22 14:37:00

Search Modules

Search by module name...

Cluster

All Clusters

Showing 161 results

Abaqus	Afni	Alphafold
Alphafold3	Amber	Amd Hpc Benchmarks
Ansys	Aocc	App Code Server
App Jupyter	App Jupyter Matlab Proxy	App Matlab Proxy
App Stable Diffusion	Autodock	Autodock Gpu
Bcftools	Bedtools2	Blast Database

openondemand.org/github

Integrated Module Browser

OPEN OnDemand

Module Browser

Last updated: 2025-07-22 14:37:00

Search Modules

python

Cluster

All Clusters

Showing 1 results

Python

Available modules: (select version)

Cluster	Versions
Ascend	3.12 3.10
Cardinal	3.12
Pitzer	3.12

Dependencies:

None

Load command:

```
module load python
```

Copy

Search and expand for Python module information

openondemand.org/github

Project Manager Updates

OPEN OnDemand

Ohio Watershed Research

Back to Projects

Launchers

ingest data

Launch | Show | Edit | Delete

run simulation

Launch | Show | Edit | Delete

New Launcher

Workflows

New Workflow

Active Jobs

43942565 Running

Completed Jobs

43942563

Project Directory: *o8rkdfbm*

/users/PZS0714/johrstrom/water

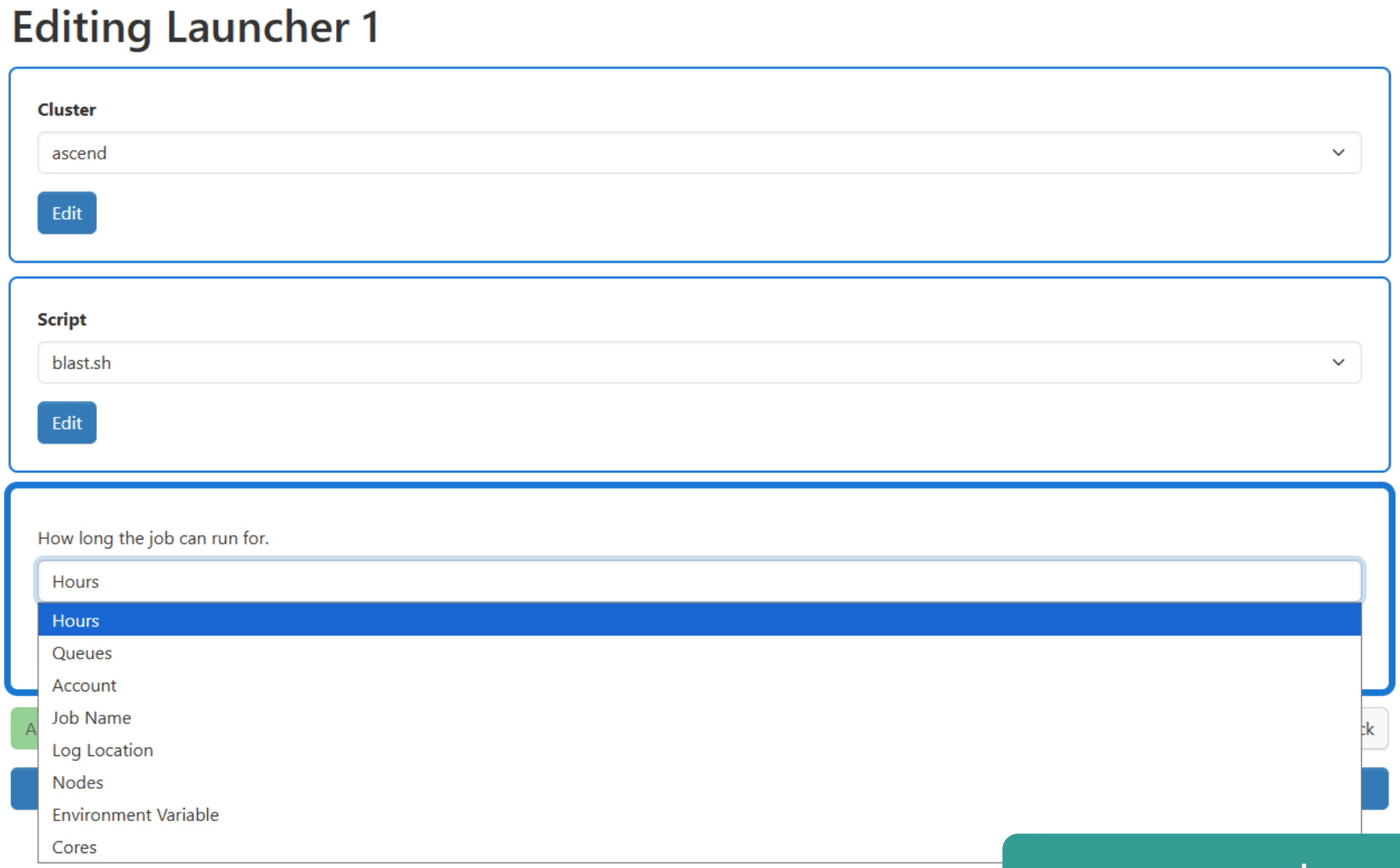
	Name		Size	Date
	..			
	.ondemand			2026-01-22 05:09:22 PM
	run_simulation.sh		55 B	2026-01-22 05:12:05 PM
	ingest_data.sh		41 B	2026-01-22 05:09:58 PM
	slurm-43942563.out		30 B	2026-01-22 05:12:04 PM
	slurm-43942565.out		18 B	2026-01-22 05:12:33 PM

Open in files app

openondemand.org/github

Project Manager Updates

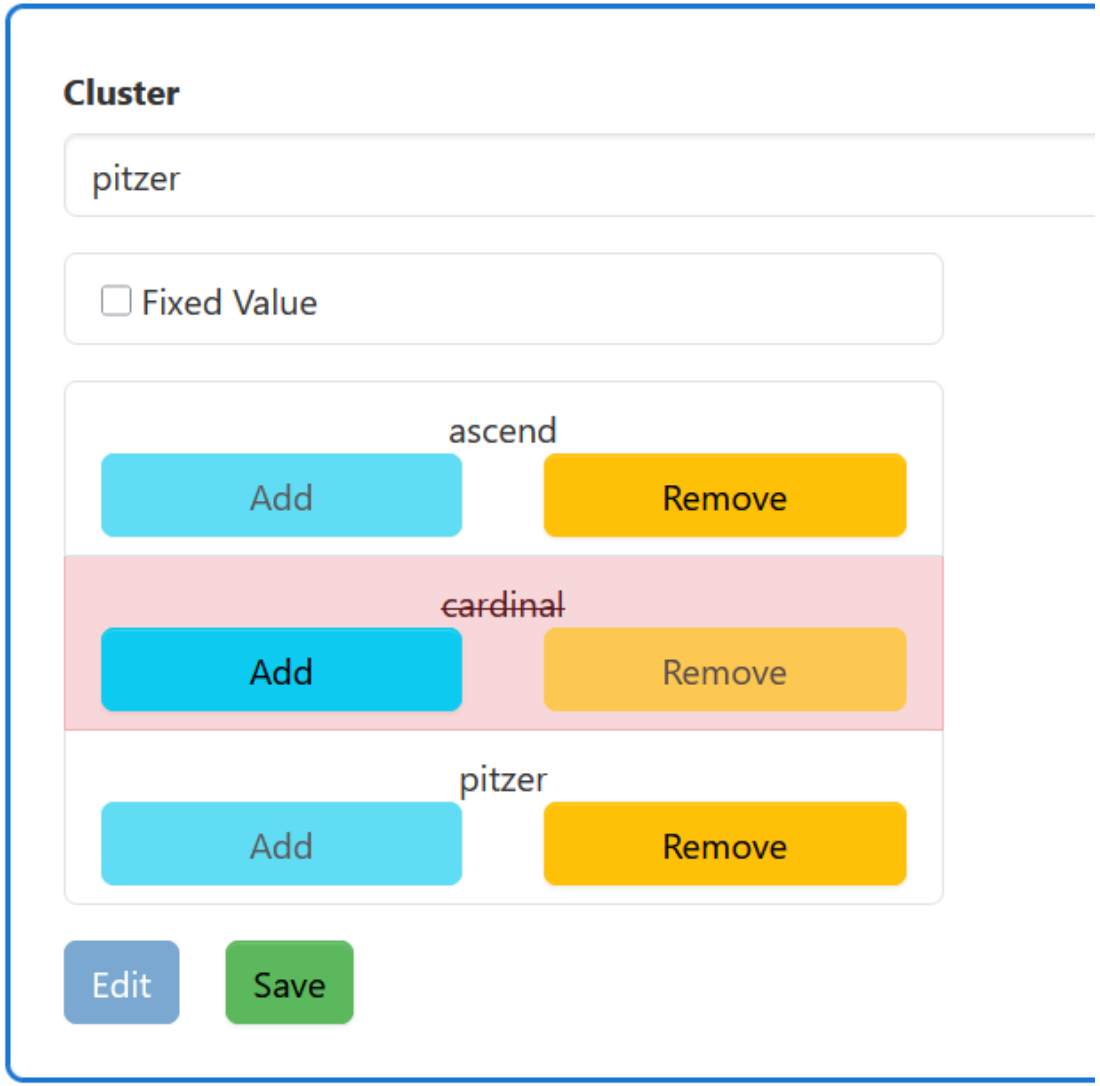
OPEN OnDemand



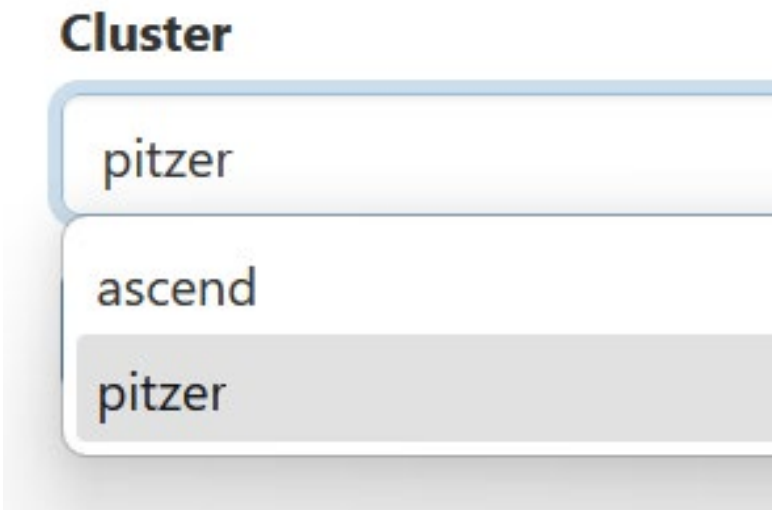
Selecting the launcher form parameters

openondemand.org/github

Project Manager Updates



Editing the launcher forms for your users



openondemand.org/github

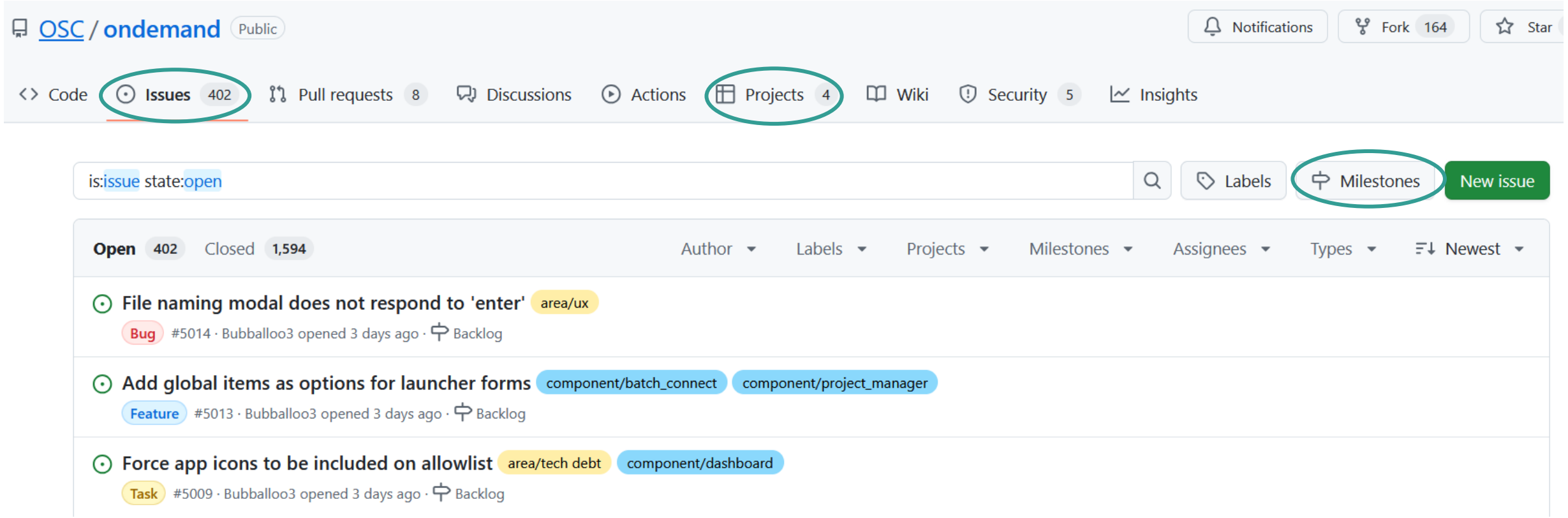
Version 4.2 Roadmap

- Timeline: April / May 2026
- Focus:
  - Addressing accessibility gaps especially those found in the ACR produced for Open OnDemand version 4.1
  - Bugs and quality of life improvements
  - ACR (Accessibility Conformance Report) produced for Open OnDemand version 4.2
  - Software Bill of Materials (SBOM)

View the Action

OPEN OnDemand

GitHub Main Repository: ondemand



openondemand.org/github

Thank You!

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emoffat@openondemand.org

Masahiro Nakao-san
masahiro.nakao@riken.jp

Sean Anderson, Ph.D.
anderss@wfu.edu

Come visit us at booth ST-4

openondemand.org/sca26

Open Floor Discussion

OPEN OnDemand

Instructions

Go to

www.menti.com

Enter the code

5253 2896

Or use QR code