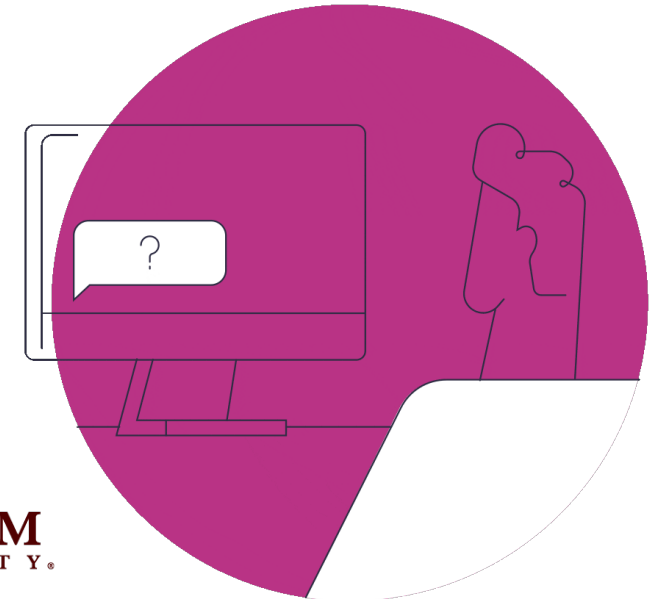
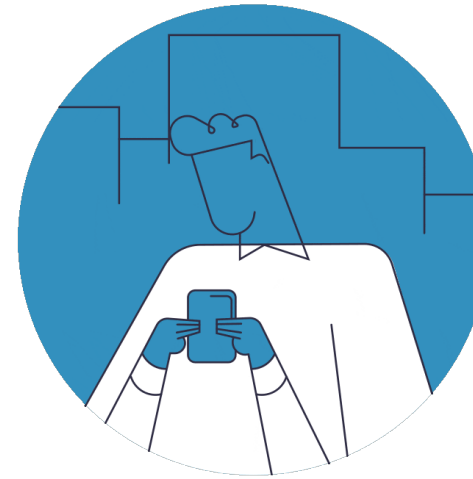


# SCA / HPCAsia Open OnDemand BoF

*Emily Moffat Sadeghi, Masahiro Nakao,  
Sean Anderson*



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/sca26](https://openondemand.org/sca26)

# Quick Survey

## Instructions

Go to

**[www.menti.com](https://www.menti.com)**

Enter the code

**5253 2896**



Or use QR code

# Agenda

**Introduction**

Community Updates

Community Stories

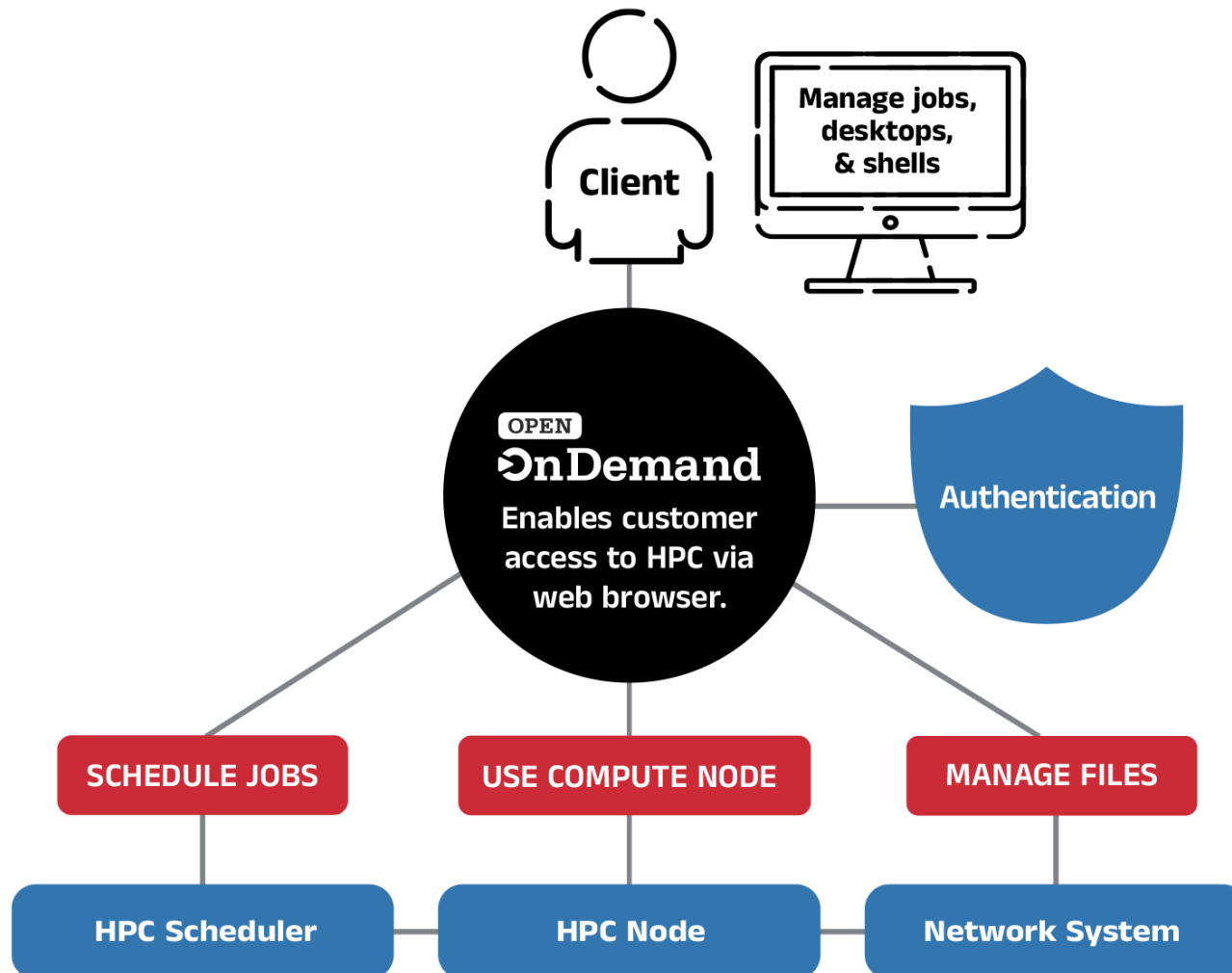
Support Updates

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?

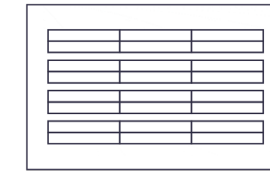
Open OnDemand was created as an open-source platform to easily access supercomputing resources through the browser.

[openondemand.org/about-us](https://openondemand.org/about-us)



# Run Open OnDemand

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



## Zero installation

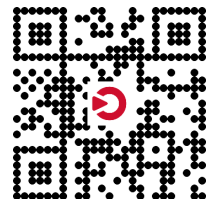
Run Open OnDemand entirely in your browser. No client software installation required.

## Easy to use

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

## Compatible with any device

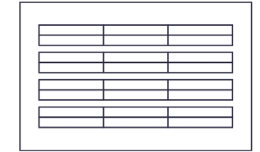
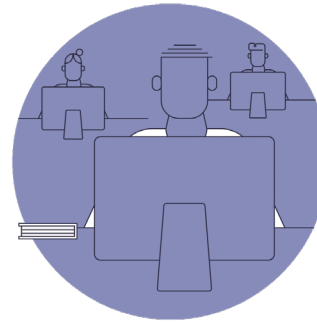
Launch on any device with a browser—even a mobile phone or tablet.



[openondemand.org/run](https://openondemand.org/run)

# Install Open OnDemand

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



## Low barrier to entry

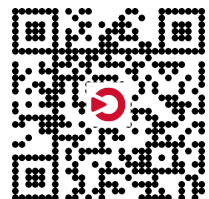
Empower users of all skill levels by offering an alternative to command-line interface.

## 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](https://openondemand.org/install)

Any Device, Anywhere



[openondemand.org/anydevice](https://openondemand.org/anydevice)



# Commercial Cloud

OPEN  nDemand



[openondemand.org/aws](https://openondemand.org/aws)



[openondemand.org/azure](https://openondemand.org/azure)



[openondemand.org/gcp](https://openondemand.org/gcp)



[openondemand.org/oci](https://openondemand.org/oci)

Open OnDemand with Azure CycleCloud Apps Files Jobs Clusters Interactive Apps

OPEN

 nDemand

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

Pinned Apps A featured subset of all available apps

Clusters



Slurm ccw Shell Access  
System Installed App

Interactive Apps



VSCode on Compute Node  
System Installed App



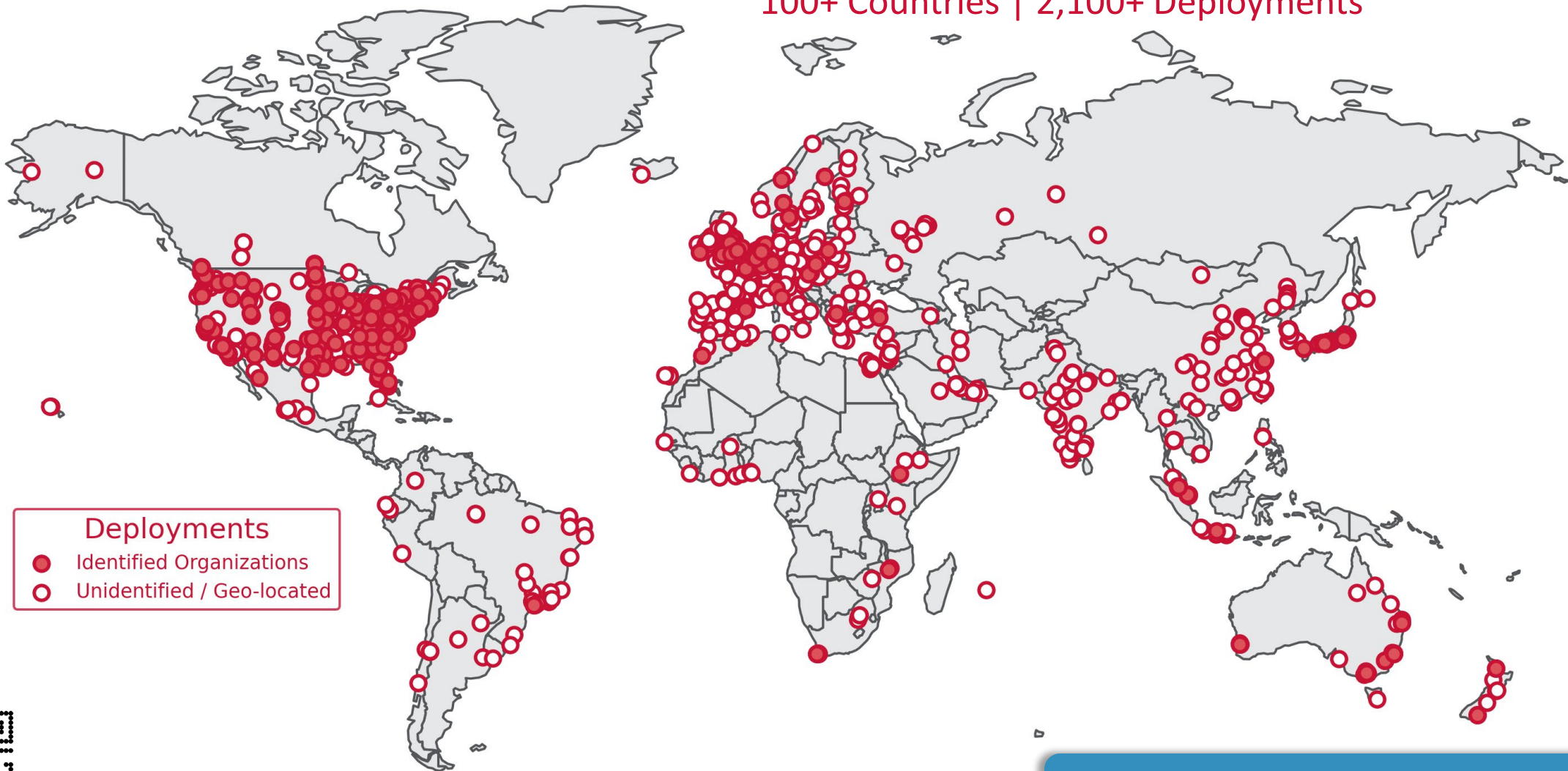
VSCode on Login Node  
System Installed App

powered by  
OPEN  nDemand

OnDemand version: 4.0.3

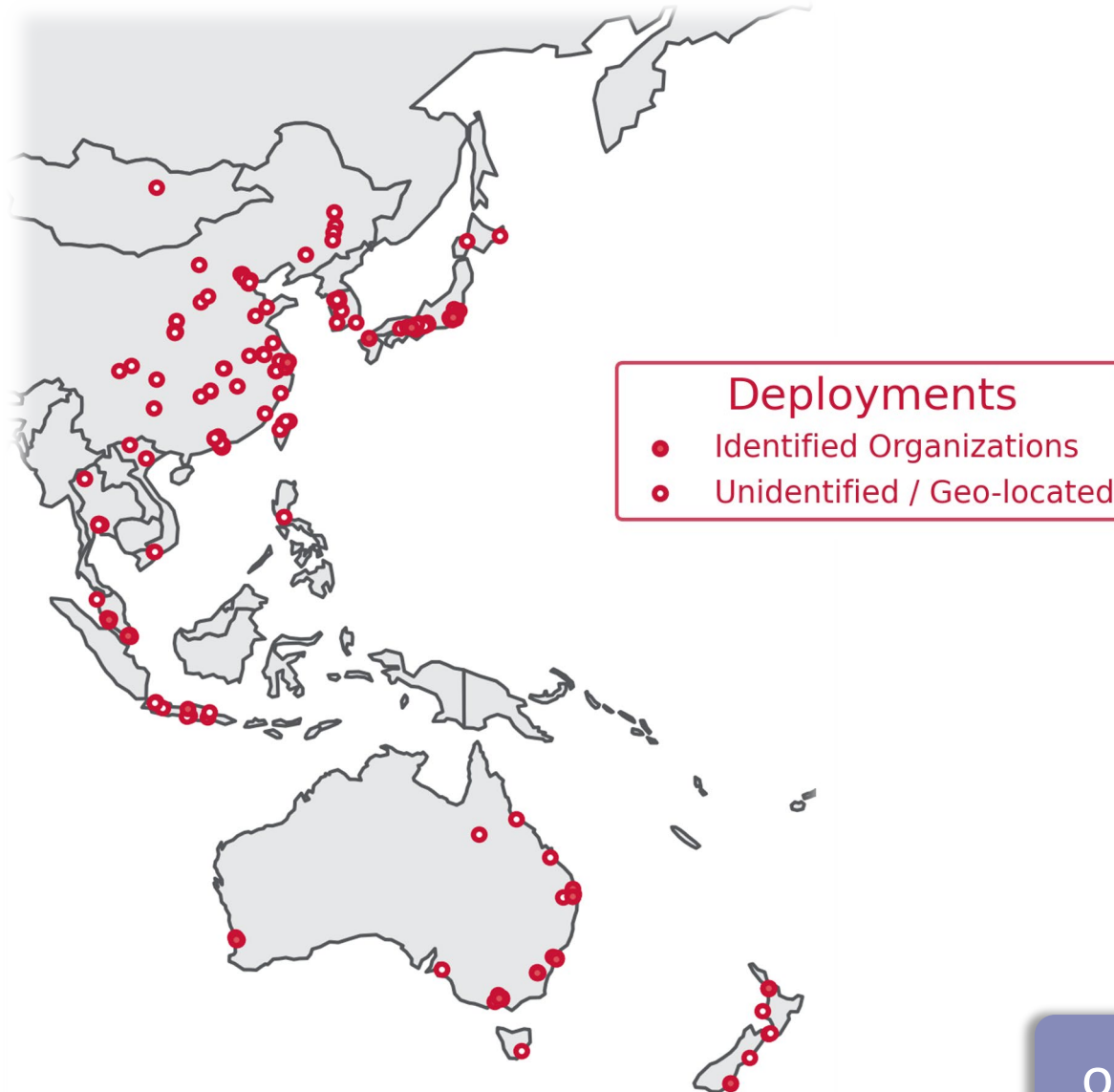
# Deployed Worldwide

100+ Countries | 2,100+ Deployments



[openondemand.org/locations](https://openondemand.org/locations)

# Deployed in APAC



[openondemand.org/locations](https://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



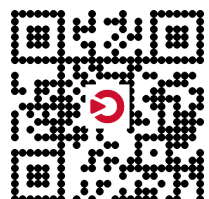
## Public academia



## Industry



[openondemand.org/orgs](https://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



[openondemand.org/our-partners](https://openondemand.org/our-partners)

# Sample Deployments




Apps ▾ Files ▾ Jobs ▾ Clusters ▾ Interactive Apps ▾ My Interactive Sessions

Help ▾ Logged in as Log Out


Quota limit warning for  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



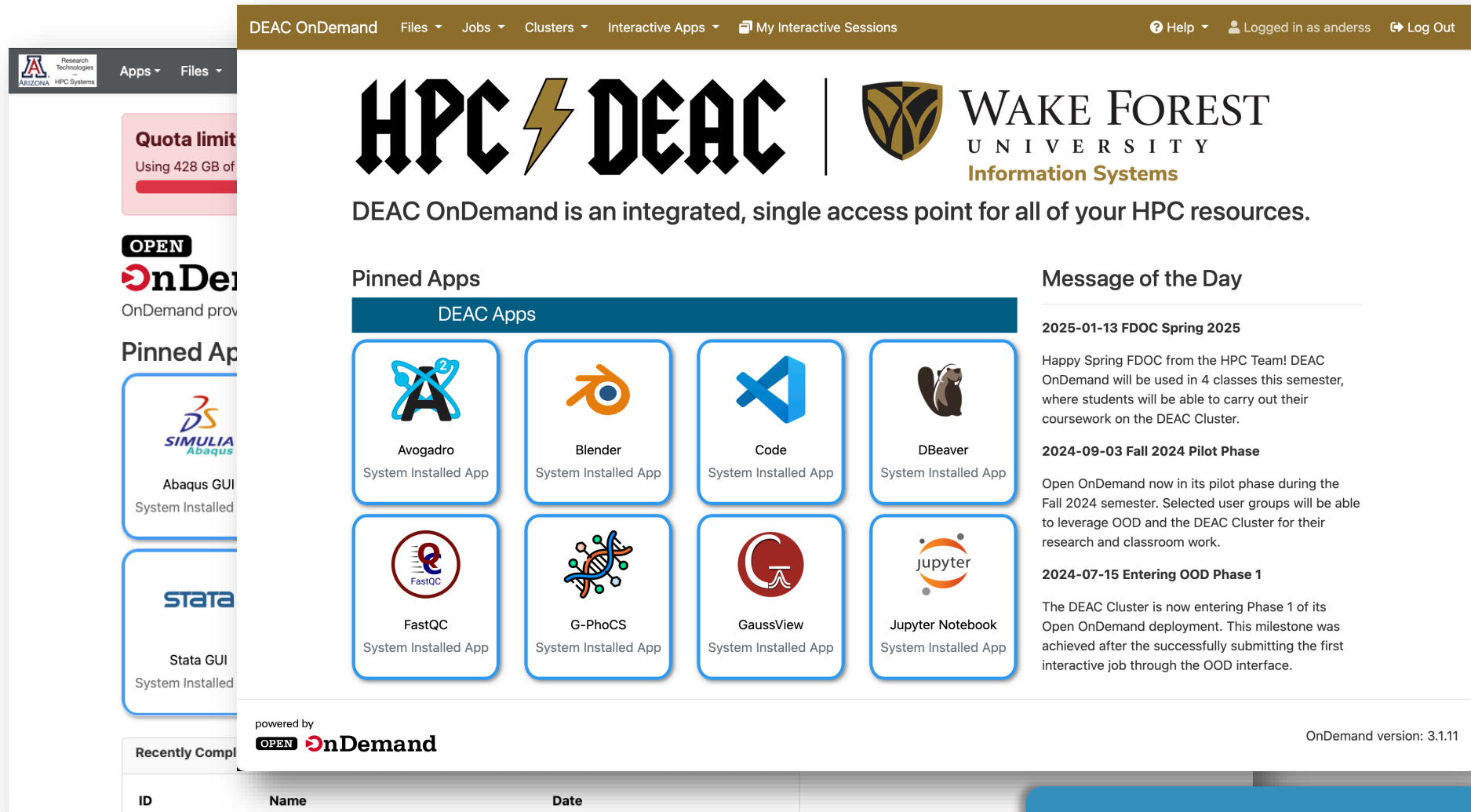
VSCode GUI  
System Installed App

Recently Completed Jobs - 2025-6-17 to 2025-7-17 [Open XDMoD](#)

ID	Name	Date
----	------	------

[openondemand.org/custom](https://openondemand.org/custom)

# Sample Deployments



The screenshot displays the DEAC OnDemand web interface. At the top, a navigation bar includes links for Files, Jobs, Clusters, Interactive Apps, and My Interactive Sessions. The main header features the HPC DEAC logo and Wake Forest University Information Systems branding. Below the header, a section titled "Pinned Apps" lists several system-installed applications: Avogadro, Blender, Code, DBeaver, FastQC, G-PhoCS, GaussView, and Jupyter Notebook. To the right, a "Message of the Day" section contains announcements for FDOC Spring 2025, Fall 2024 Pilot Phase, and OOD Phase 1. The interface also shows a "Quota limit" warning and a "Recently Completed" table at the bottom.

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









## HPC DEAC

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

ID	Name	Date

[openondemand.org/custom](https://openondemand.org/custom)



# Sample Deployments


Research Technologies  
—  
ARIZONA HPC Systems


Apps ▾ Files ▾

Quota limit  
Using 428 GB of

**OPEN**  
**OnDemand**  
OnDemand provided by

Pinned Apps


  
Abaqus GUI  
System Installed

  
Stata GUI  
System Installed

Recently Completed


ID	Name	Date
----	------	------


DEAC OnDemand Files ▾ Jobs ▾ Clusters ▾

  
DEAC OnDemand

Pinned Apps

DEAC Apps

  
Avogadro  
System Installed App

  
FastQC  
System Installed App

powered by  
**OPEN** **OnDemand**

Anvil Files ▾ Jobs ▾ Clusters ▾ Interactive Apps ▾ My Interactive Sessions ▾ New Features ▾

**Anvil** Rosen Center for Advanced Computing

Service Unit (SU) Usage

asc170016  
15196.22 SUs used / 979191.95 total (963995.73 left)

asc170016-gpu  
13.05 SUs used / 855.13 total (842.08 left)

cis230138  
0 SUs used / 0 total (0 left)

cis230270  
3671.28 SUs used / 166515.47 total (162844.18 left)

hum250006  
1941.68 SUs used / 20000 total (18058.32 left)

oth250002-gpu  
81.2 SUs used / 1915.68 total (1834.48 left)

tra220012  
0 SUs used / 0 total (0 left)

Disk Usage

home / x-lentner  
Size → 6.1GB / 25.0GB

scratch / x-lentner  
Size → 0.0KB / 100.0TB  
Files → 1 / 1.0M files

projects / x-asc170016  
Size → 986.3GB / 5.0TB  
Files → 260.0K / 1.0M files

projects / x-cis230138-data  
Size → 0.0KB / 5.0TB  
Files → 1 / 1.0M files

projects / x-cis230138  
Size → 4.9TB / 5.0TB  
Files → 7.4K / 1.0M files

projects / x-cis230270  
Size → 524.0MB / 5.0TB  
Files → 1.0K / 1.0M files

projects / x-hum250006  
Size → 40.6GB / 5.0TB  
Files → 113.0K / 1.0M files

Announcements

No recent announcements.

[View All Announcements](#)

Partition Status

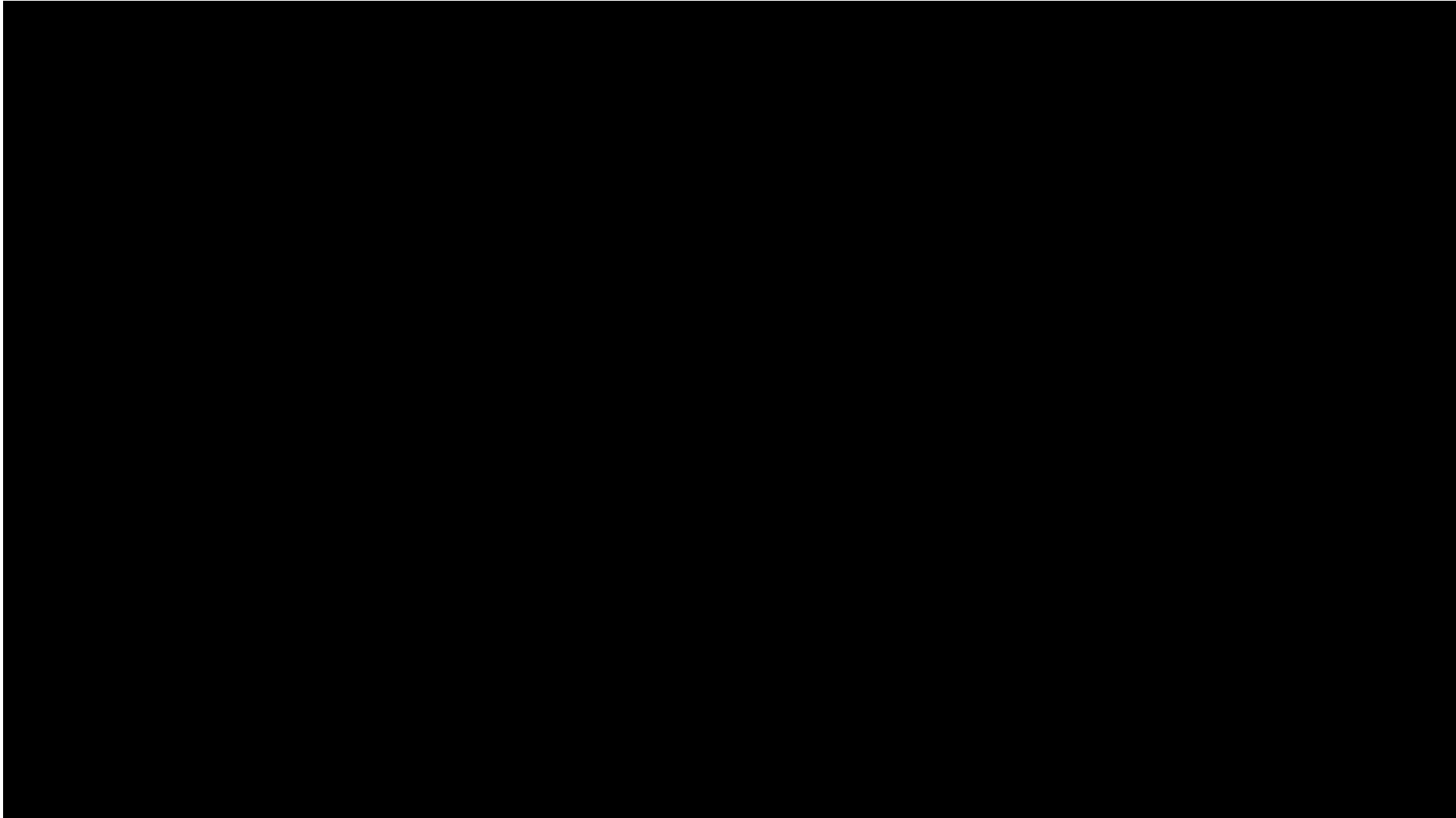
Partition	State	Current Load
wholenode standard wide	UP	689/699 nodes busy (10 free, 51 offline)
shared	UP	190/242 nodes busy (52 free, 8 offline) 22594/30896 cores busy (8302 free)
highmem	UP	4/32 nodes busy (28 free, 0 offline) 298/4096 cores busy (3798 free)
debug	UP	9/17 nodes busy (8 free, 0 offline) 1107/2176 cores busy (1069 free)
gpu gpu-debug	UP	12/16 nodes busy (4 free, 0 offline) 48/64 GPUs busy (16 free)

[View Queue Limits](#)

OnDemand version: 3.1.11

[openondemand.org/custom](https://openondemand.org/custom)

# Any Challenge, Every Solution



[openondemand.org/anyschallenge](https://openondemand.org/anyschallenge)

# Agenda

Introduction

**Community Updates**

Community Stories


Support Updates

Technical Updates

Q&A



# Community Hub




## 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](#)



#### Affinity Groups

Topical user groups across disciplines and technologies.

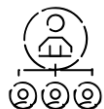
[Affinity Groups](#)



#### Knowledge Base

Find and share resources useful to the community.

[Knowledge Base](#)



#### People

Meet the community using Open OnDemand.

[Member Directory](#)

#### 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](#)

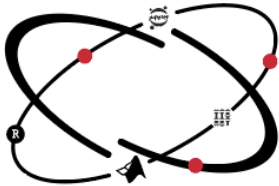
12/09/2025  
[Open OnDemand Office Hours](#)

[ALL EVENTS](#)

[openondemand.org/hub](https://openondemand.org/hub)



# Affinity Groups



**Appverse**



**New to  
Open OnDemand**



**Security Best  
Practices**



**Affinity Group  
Coordinators**



**Microsoft Azure**



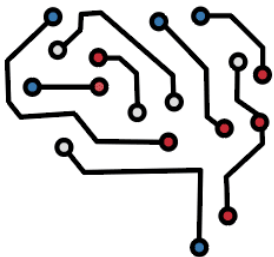
**Customizing the  
Backend**



**Classroom**



**Structural  
Biology Apps**



**LLMs**



**Multilingual  
Community**



**Project Design**

**Join groups  
or start a  
new affinity  
group**



[openondemand.org/hub](https://openondemand.org/hub)





# The Appverse Affinity Group

[openondemand.org](#) ▶ [Run OOD](#) ▶ [Administer OOD](#) ▶ [Get Involved](#) ▶ [Support](#) Log in

OPEN

**OnDemand**

**Community Portal**

[Affinity Groups](#) [Knowledge Base](#) [People](#) [Events](#)

**OOD Appverse**

community-outreach

Join the conversation and help shape the Open OnDemand Appverse, a collaborative ecosystem for hosting, developing, and sharing apps within the Open OnDemand community.

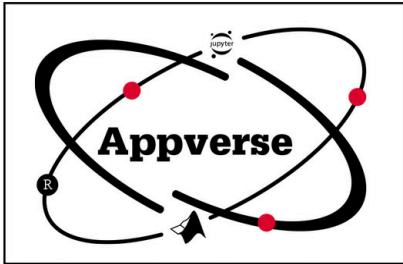
The group explores technical, governance, and user experience aspects of a shared Open OnDemand Appverse, including app hosting infrastructure, security, metadata, developer onboarding, and support for diverse software stacks.

Whether you're a developer, admin, or end user, we welcome your ideas and contributions. Join us to help shape the future of app sharing in Open OnDemand .

---

Members get updates about announcements, events, and outages.

[JOIN](#) [SLACK](#)



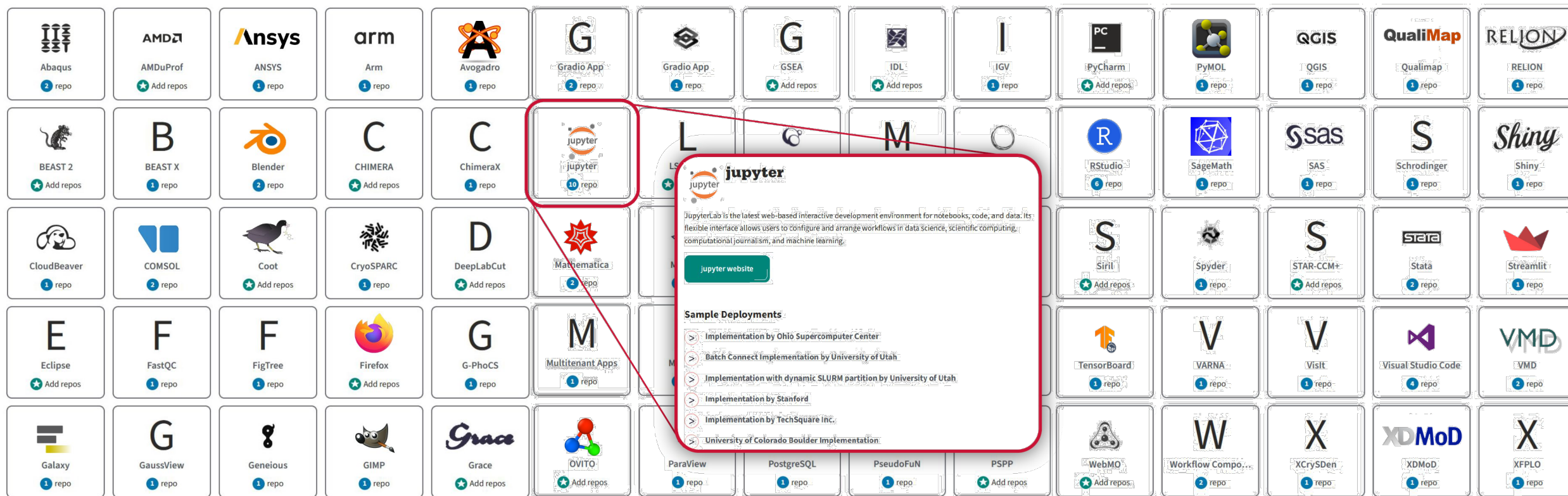
**Upcoming Events**

No upcoming events.

[See past events](#)

[ondemand.connectci.org/appverse](https://ondemand.connectci.org/appverse)

# The Appverse Initiative



The Appverse Initiative provides a grid of application tiles, each representing a different software application available on the OpenOnDemand platform. Each tile includes the application's logo, name, and the number of repositories it has. A red box highlights the Jupyter application tile, which is expanded to show a detailed view of the application.

**Jupyter Application Details:**

- Logo:** Jupyter logo (orange and blue)
- Name:** jupyter
- Repositories:** 10 repo
- Description:** JupyterLab is the latest web-based interactive development environment for notebooks, code, and data. Its flexible interface allows users to configure and arrange workflows in data science, scientific computing, computational journalism, and machine learning.
- Buttons:**
  - jupyter website
- Sample Deployments:**
  - > Implementation by Ohio Supercomputer Center
  - > Batch Connect Implementation by University of Utah
  - > Implementation with dynamic SLURM partition by University of Utah
  - > Implementation by Stanford
  - > Implementation by TechSquare Inc.
  - > University of Colorado Boulder Implementation



# The Appverse is Coming!

We are gathering information about the existing Open OnDemand apps.



File Edit View Run Kernel Tabs Settings Help

/fix

```
def fibonacci(n):
    if(n <= 1):
        return n
    return fibonacci(n - 1) + fibonacci(n - 2)
result = fibonacci(10000)
print(result)
```

Jupyterlab 2:41 PM

Fixed code:

```
def fibonacci(n, memo = {}):
    if n <= 1:
        return n
    elif n not in memo:
        memo[n] = fibonacci(n - 1, memo) + fibonacci(n - 2, memo)
    return memo[n]

result = fibonacci(10000)
print(result)
```

Explanation:

The original code was causing a RecursionError because it was exceeding the maximum recursion depth allowed by Python. This was happening because the function was calling itself too many times without any optimization.

Ask Jupyterlab

Untitled13.ipynb

Notebook Python 3 (ipykernel)

Debugging a simple code with /fix

The cell below will generate an error. Run the cell, and then use /fix to help resolve the issue.

```
[1]: def fibonacci(n):
    if(n <= 1):
        return n
    return fibonacci(n - 1) + fibonacci(n - 2)
result = fibonacci(10000)
print(result)
```

RecursionError

Traceback (most recent call last)

```
Cell In[1], line 5
      3 return n
      4 return fibonacci(n - 1) + fibonacci(n - 2)
----> 5 result = fibonacci(10000)
      6 print(result)

Cell In[1], line 4, in fibonacci(n)
      2 if(n <= 1):
      3 return n
----> 4 return fibonacci(n - 1) + fibonacci(n - 2)

Cell In[1], line 4, in fibonacci(n)
      2 if(n <= 1):
      3 return n
----> 4 return fibonacci(n - 1) + fibonacci(n - 2)
```

Creating a simple PyTorch program with /ask

Use the ask command to have the assistant create a simple neural net which solves the MNIST dataset. For example: /ask Create a pytorch application for the MNIST dataset

You may need to use multiple /ask and /fix prompts in order to piece together a full, working, application since the token limit is 512.

# Annual Conference

OPEN  nDemand

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



**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

**Registration  
Open!**

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



[openondemand.org/good2026](https://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](https://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.



## Contributor Guide

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



## 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.



## 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](https://openondemand.org/get-involved)

# Agenda

Introduction

Community Updates

**Community Stories**

Support Updates

Technical Updates

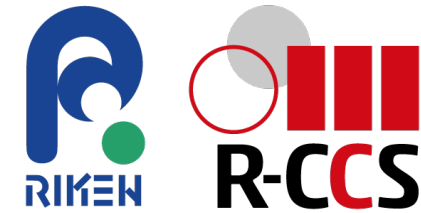
Q&A





# Community Stories

Masahiro Nakao-san



Shinichiro Takizawa-san



Akihiro Nomura-san



Sean Anderson, Ph.D.



[openondemand.org/community](https://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.

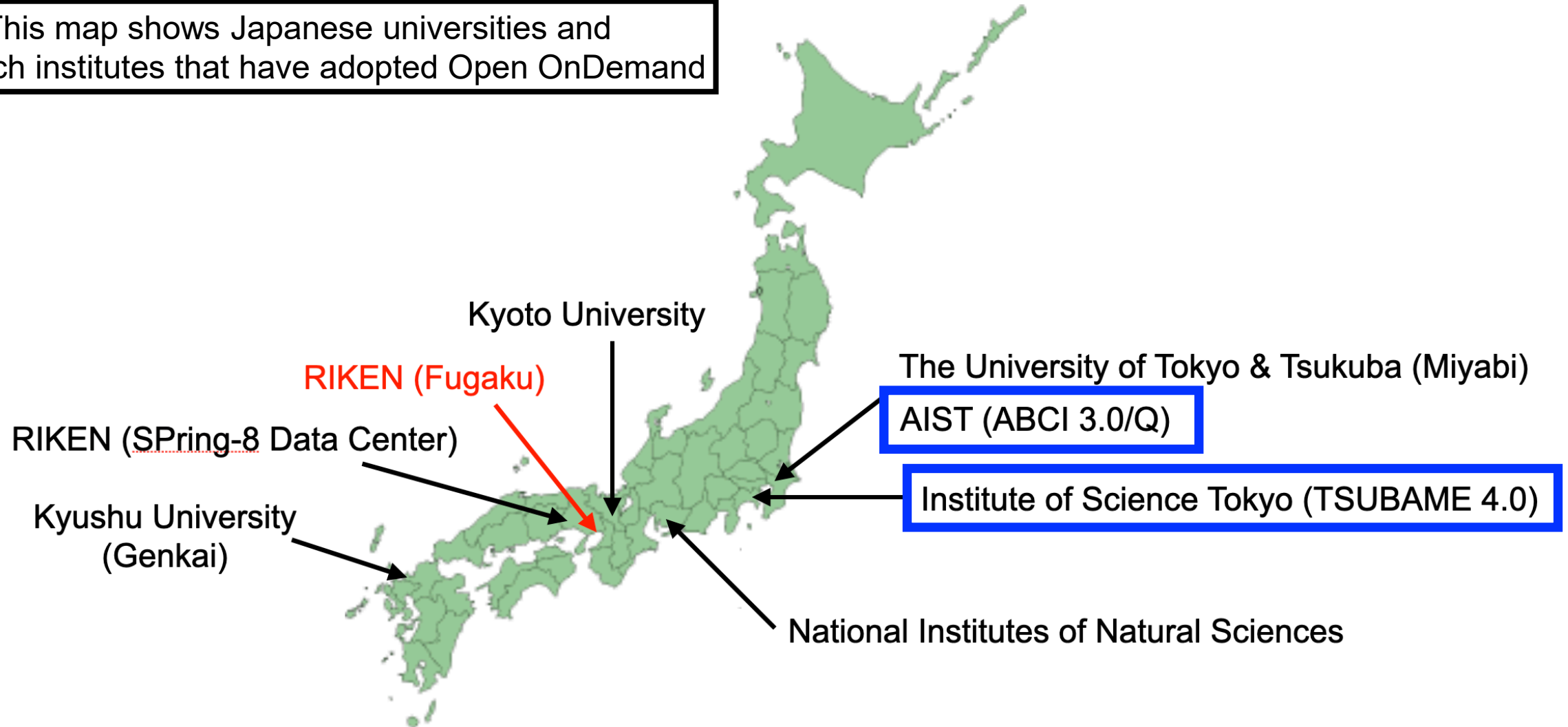
- Aug. 2022: We carried out the entire launch of Open OnDemand on Fugaku. This was the first deployment of Open OnDemand on a large-scale supercomputer in Japan
- Sep. 2025: We established Open OnDemand as the first login method for users of Fugaku, replacing SSH



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

Open OnDemand JP

目的GitHub講習会関連研究

## 目的

本サイトは、[Open OnDemand](#)の日本での普及を目的としたコミュニティサイトです。Slackで情報交換を行っていますので、ご興味のある方は、ぜひご参加ください。

Slackに参加する

## GitHub

### 設定ファイル

- [スーパーコンピュータ「富岳」](#)
- [R-CCSクラウド](#)

### Passenger Application

- [Open Composer](#) : ジョブスクリプトを簡単に生成・投入・管理
- [HPCI Shared Storage](#) : HPCI共用ストレージにアクセス
- [GakuNin RDM](#) : GakuNin RDM (研究データ管理基盤) にアクセス



<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)

Fugaku OnDemandBatch JobsInteractive AppsPassenger AppsMy SessionsDevelopHelpLogged in as a03011Log Out



Welcome to the  
supercomputer Fugaku



RIKEN  
Center for  
Computational Science

Link

OnDemand Manual	
Fugaku Portal	
Fugaku Schedule	
Fugaku Status	
Fugaku Support	

Message of the day

Information

Jul 24, 2023

Operation

July 2023 Large-scale job execution period

Jul 21, 2023

Operation

Resource groups during the large scale job execution period

Jul 19, 2023

Operation

Occurrence of inaccessibility and poor response at login nodes and jobs due to a file system maintenance(vol0005)

Fugaku Schedule

Today

Jul 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	Jul 1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	Aug 1	2	3	4	5

Events shown in time zone: Japan Standard Time

Pending jobs

fugaku-small  
17867

fugaku-large  
915

prepost-gpu1  
12

prepost-gpu2  
0

prepost-mem1  
22

prepost-mem2  
3


prepost-ondemand  
0

Accounting


(Updated at 2023/07/25 02:32:10 (JST))

Group	Volume	Disk (GiB)				Disk (inode)				Resource (NH)			
		Limit	Usage	Avail.	Rate	Limit	Usage	Avail.	Rate	Limit	Usage	Avail.	Rate
rcs-aot	/vol0400	5,120	608	4,512	11%	1,500,000	265,259	1,234,741	17%	527,360	81,666	445,693	15%
f-op	/vol0403	614,400	160,260	454,140	26%	180,000,000	144,261,340	35,738,660	80%	-	-	-	-
ra030002	/vol0403	5,120	1	5,119	0%	1,500,000	2	1,499,998	0%	-	-	-	-
/home	/vol0400	20	5	15	25%	200,000	11,619	188,381	5%	-	-	-	-


Recently Used Apps




Desktop



OpenFOAM




SCALE




Jupyter


Passenger Apps




Active Jobs




Home Directory




Gakunin RDM



HPCI Storage



Job Composer



Fugaku Shell Access

A

B

C

D

E

F

G

35

# 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

The screenshot shows the Open Composer web interface for submitting a batch job. The interface is divided into several sections:

- Top Bar:** Includes navigation links for "Top", "Application", and "History", and a button for "Open OnDemand".
- Application Header:** Displays "FDS" and a description: "FDS (Fire Dynamics Simulator) is a large-eddy simulation code."
- Script Location:** A text input field containing "/Users/mnakao/" and a "Select Path" button.
- Script Name:** A text input field containing "job.sh".
- Resource group:** Includes radio buttons for "small" (selected) and "large".
- Nodes (1 - 384)\*:** A text input field containing "1".
- Procs (1 - 18,432)\*:** A text input field containing "1".
- Threads (1 - 48)\*:** A text input field containing "1".
- Maximum run hours (0 - 72)\*:** A text input field containing "1".
- Maximum run minutes (0 - 59)\*:** A text input field containing "0".
- Script name (Up to 63 bytes):** A text input field.
- Show advanced option:** A checkbox.
- FDS version\*:** Radio buttons for "6.8.0" (selected), "6.7.9", "6.7.8", and "6.7.7".
- Input file\*:** A text input field containing "/Users/mnakao/" and a "Select Path" button.
- Script Contents:** A text area containing the following script content:

```
#!/usr/bin/env bash
#PJM -L "rscgrp=small"
#PJM -L "node=1"
#PJM --mpi "proc=1"
#PJM -L "elapsed=1:0:00"
export OMP_NUM_THREADS=1

./vol0004/apps/oss/spack/share/spack/setup-env.sh
spack load fds@6.8.0

cd /Users/mnakao
mpirun fds_mpi_fugaku
```
- Submit:** A blue button at the bottom right.



# 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, H $\Phi$ , 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

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

Shinichiro Takizawa  
AIST

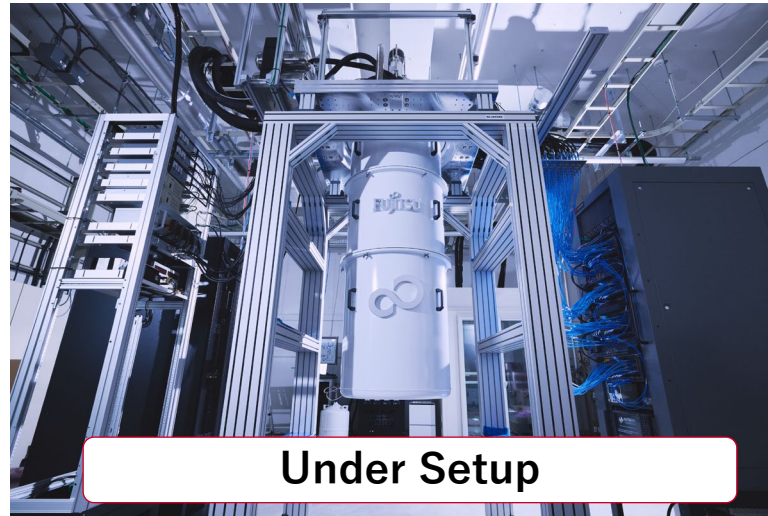
## A hybrid computing Infrastructure that integrates a GPU-based supercomputer with multiple types of quantum computers

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

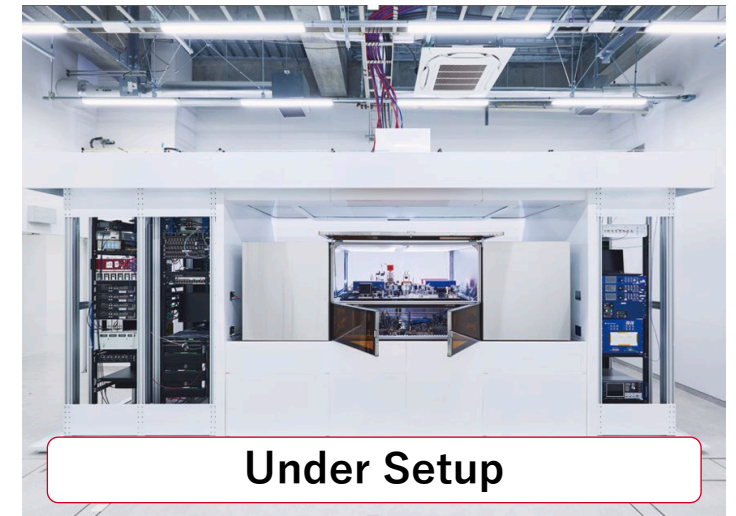
**System H**  
GPU Supercomputer



**System F**  
Superconducting QC

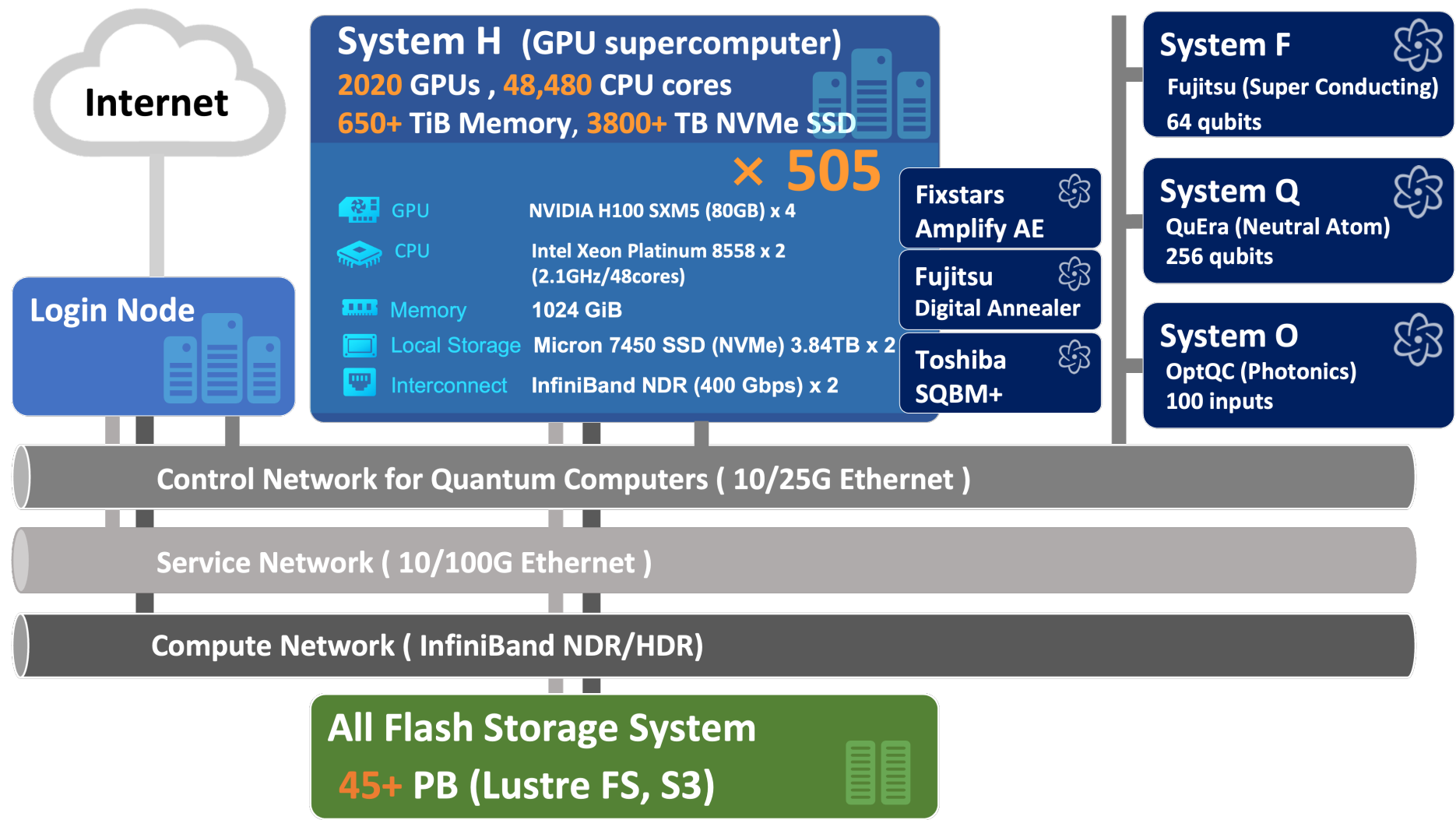


**System Q**  
Neutral atom QC



- 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

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

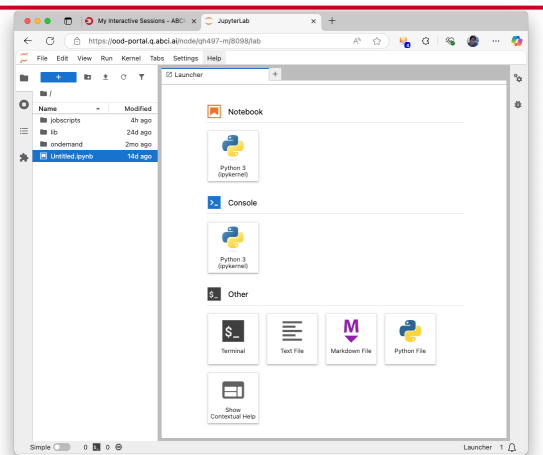


Equipped with applications that can be utilized for R&D in quantum computing

## Jupyter Notebook

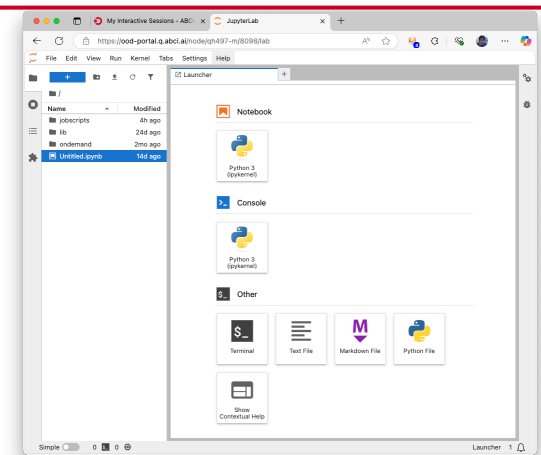
Provides Jupyter Notebook on compute nodes

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



## NVIDIA CUDA Quantum

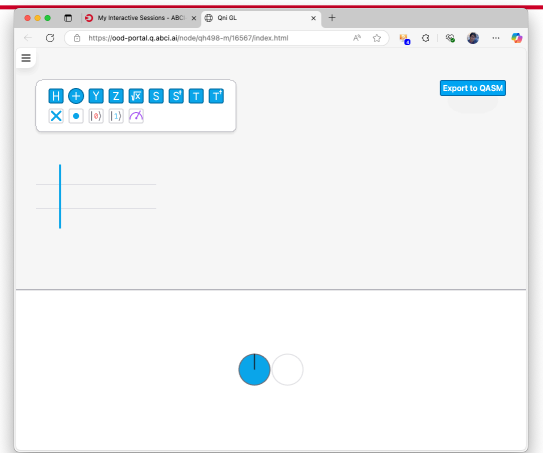
Provide Jupyter Notebook preloaded with NVIDIA CUDA Quantum, A quantum programming framework from NVIDIA



## QNI

A web-based quantum circuit editor and simulator

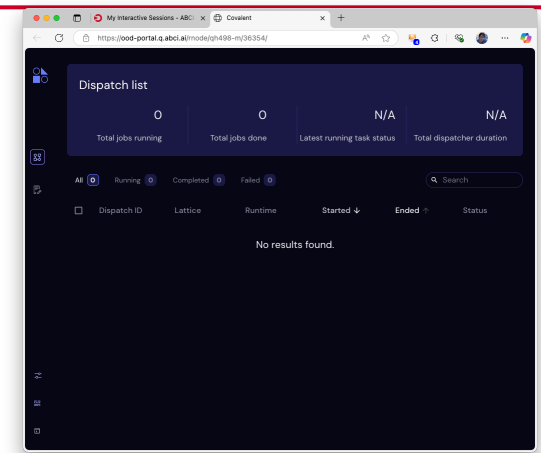
Provides an interactive environment for developing and learning quantum programming



## Covalent

A programming environment featuring Covalent workflow orchestration tool and Jupyter Notebook

Provides a workflow development environment for quantum and classical applications



## Current Status

- 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

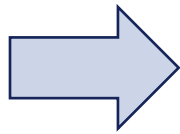
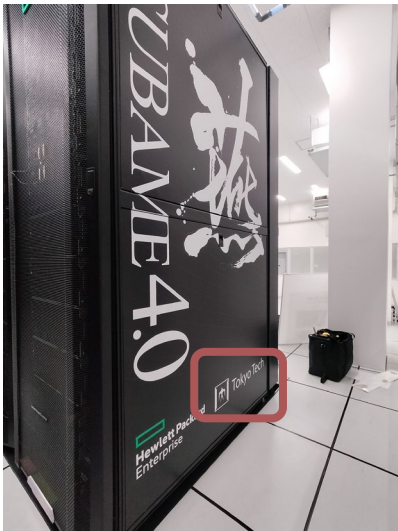
Akihiro Nomura

Center for Information Infrastructure, Science Tokyo



# 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
  - 4<sup>th</sup> 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)

- 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

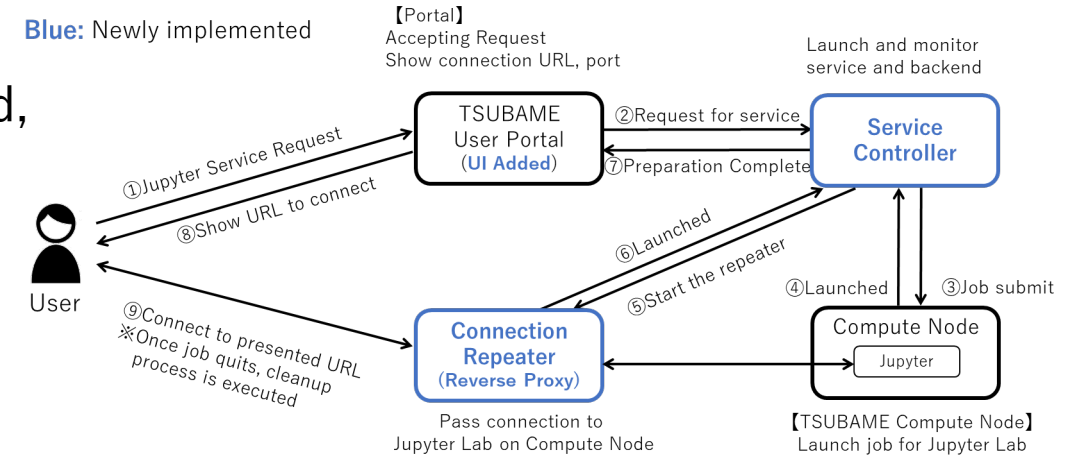
- Extended to accommodate Code Server and noVNC
- Reinvented the wheel, as no one in Japan know OoD...
- At the timing of TSUBAME4.0 installation (April 2024), we decided to switch to OoD for interoperability.

- 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



## Webサービス利用受付


### Webサービスの起動

Webアプリケーション	
Webアプリケーション	Jupyter Notebook
インタラクティブ利用専用キュー	
利用時間	24:00:00
有償サービス利用	
グループ選択	tga-
通常ノード利用	
資源タイプ	f_node[F]
利用時間	00:10:00
予約ノード利用	
ARID	
資源タイプ	f_node[F]
利用時間	00:10:00
お試し利用	
資源タイプ	s_core[C1]
利用時間	00:10:00
ノード確保失敗時	<input checked="" type="radio"/> キャンセル <input type="radio"/> 空くまで待機
起動	

# 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 Open OnDemand. Files Clusters Interactive Apps






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

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

Interactive Queue

 code server(interactive) System Installed App	 TSUBAME interactive Desktop (xfce) System Installed App	 Jupyter (interactive) System Installed App
---	---	--

Normal Queue

 code server System Installed App	 TSUBAME Desktop (xfce) System Installed App	 Jupyter System Installed App
--	---	--

powered by  
OPEN OnDemand

OnDemand version: 3.1.10

# TSUBAME4.0 User Portfolio

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 took >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)





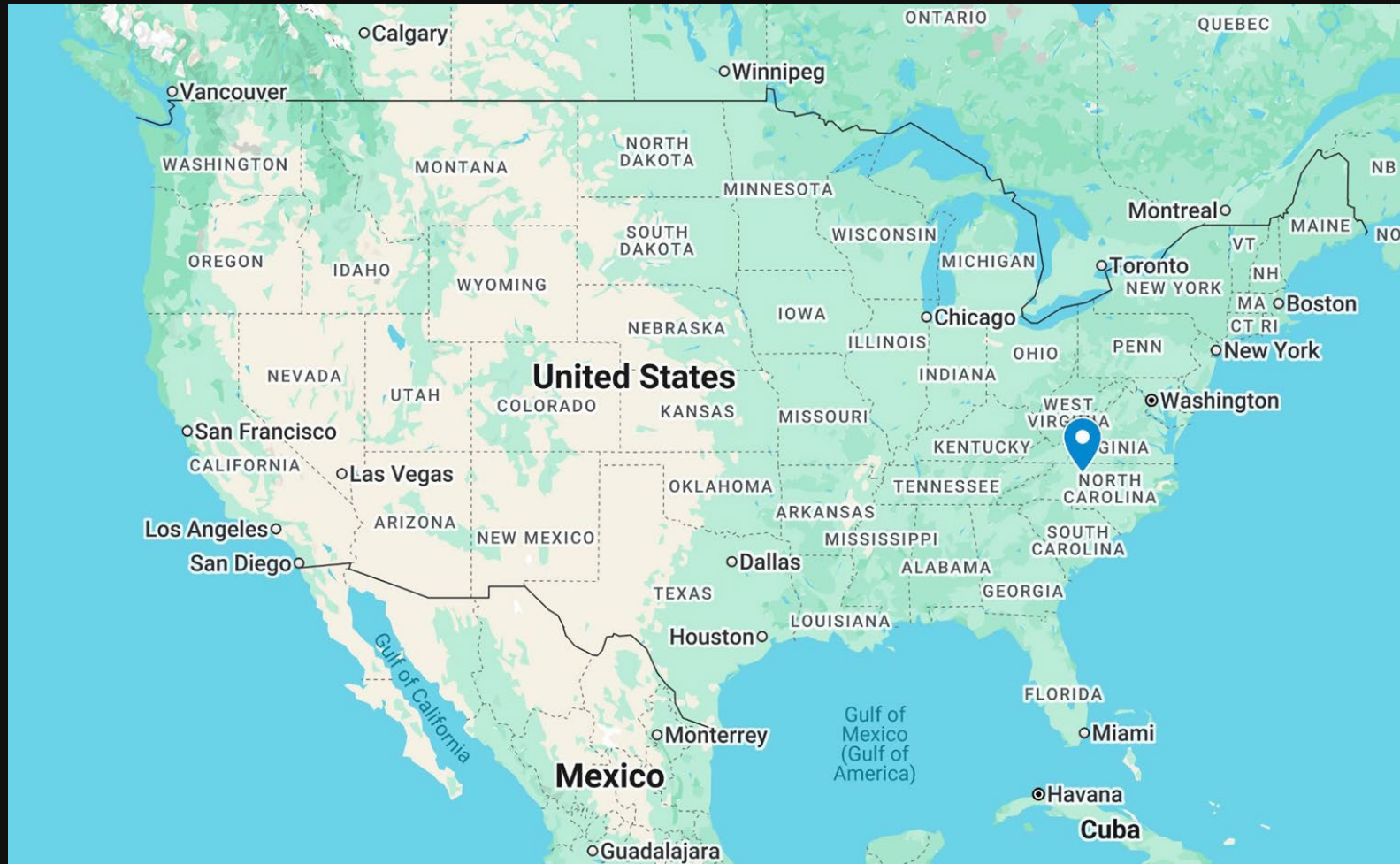


# Open OnDemand at WFU

Sean Anderson

WAKE  
FOREST  
UNIVERSITY





Winston-Salem, North Carolina

















# 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**

---











# The HPC Team

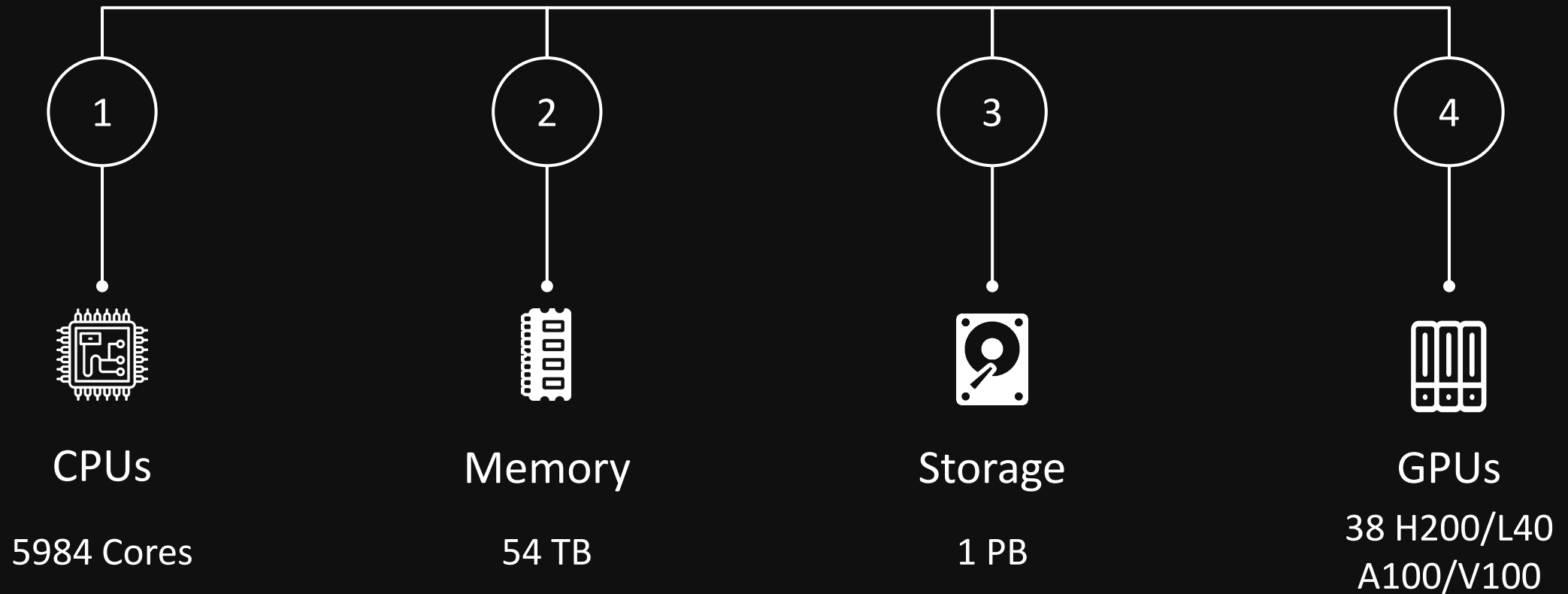






# The DEAC Cluster

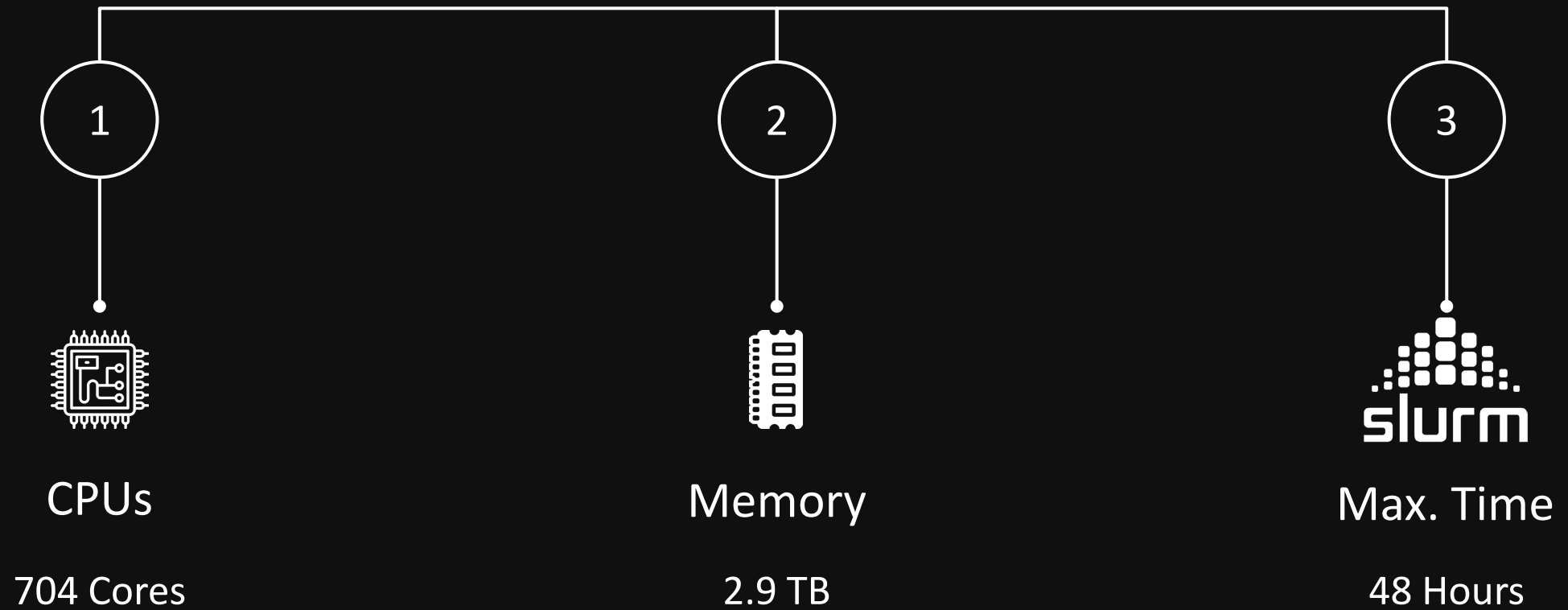
111 Compute Nodes





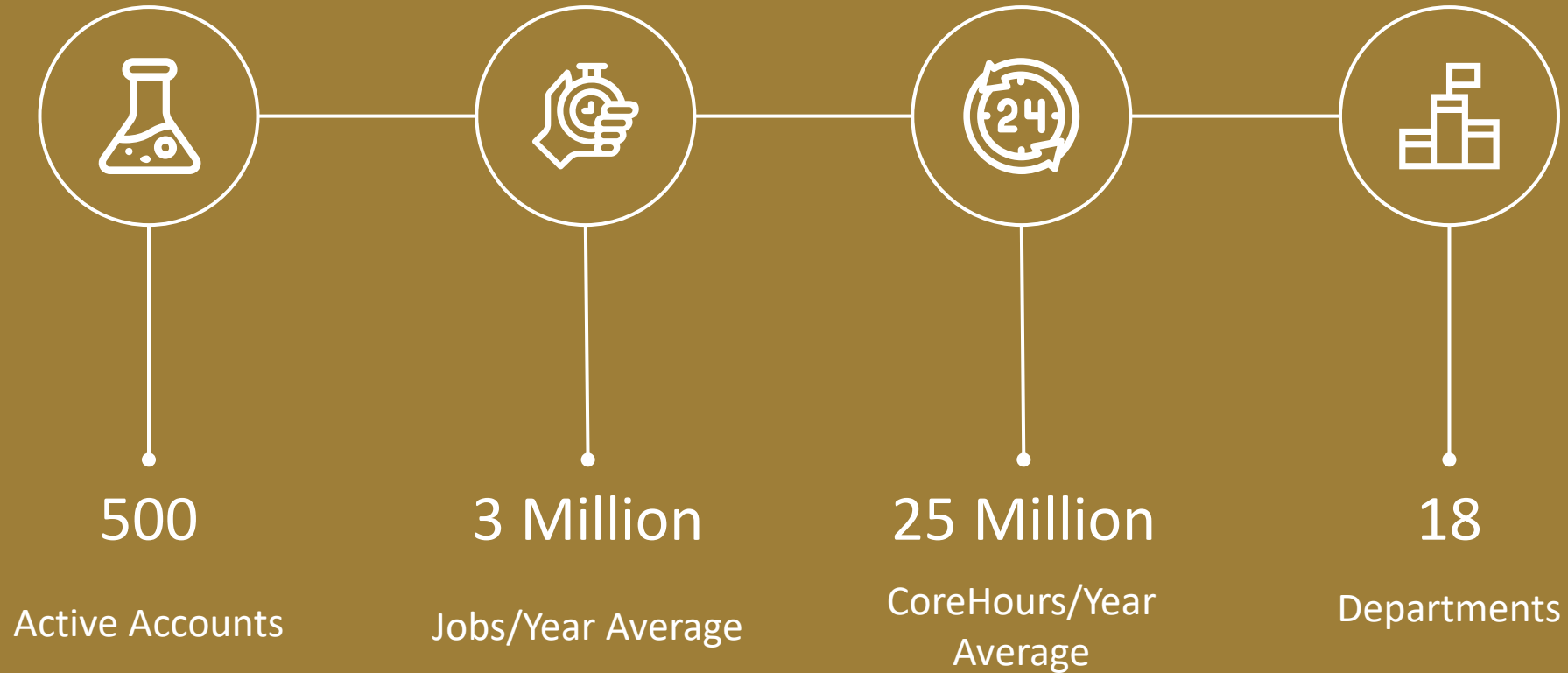
# DEAC Educational Cluster

16 Compute Nodes





# General Impact





# Open OnDemand Impact

2024

210

2025

381

**81% increase  
after OOD**

---



# Open OnDemand Impact

Unique Users

381

OOD Users

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?

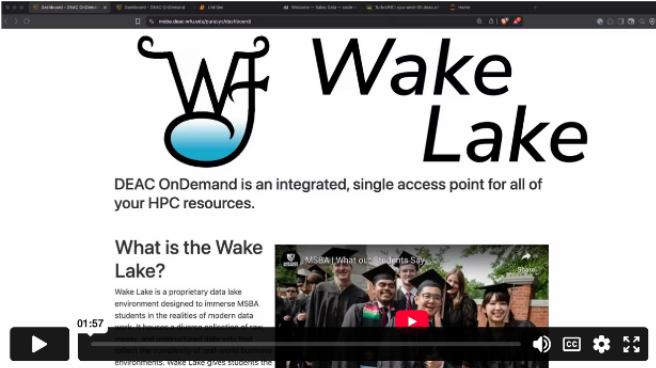
Wake Lake is a proprietary data lake environment designed to immerse MSBA students in the realities of modern data work. It houses a diverse collection of raw, messy, and unstructured data sets that reflect the complexity of real-world business environments. Wake Lake gives students the opportunity to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

Powered by



## Explore the datasets in the Wake Lake:

- [Wake Lake Directory](#)
- [Wake Lake Index](#)
- [Retail](#)
- [Exchange](#)
- [Crypto](#)





DEAC OnDemand

FilesJobsClustersAppsMy Interactive Sessions

HelpLogged in as anderssLog Out



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Powered by



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



OnDemand version: 4.0.3







# Departments & Programs

Dashboard - CSC DEAC OnDem: X

csc.deac.wfu.edu/pun/sys/dashboard/

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


  
WAKE FOREST  
UNIVERSITY  
Department of Computer Science





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


This portal provides access to computing resources provided by the Department of Computer Science and the DEAC Cluster.

### Pinned Apps

  
CSC 250  
Code  
for CSC  
(Grace)

  
Code  
(Greenflash)

  
Jupyter

  
Code

powered by  
OPEN OnDemand

OnDemand version: 4.0.8



# Classes

## Since 2025:

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



Dashboard - STA379A DEAC OnDemand

STA379A DEAC OnDemandFilesJobsClustersAppsMy Interactive SessionsHelpLogged in as anderssLog 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  
 **OnDemand**

OnDemand version: 3.1.10



Dashboard - PHY262 DEAC Onl: X

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 Notebook**  
System Installed App



**VS Code**  
System Installed App

powered by  
 **OnDemand**

OnDemand version: 3.1.10



## Pinned Apps

### 0. Services



Multitenant Dashboard



Multitenant Database



Multitenant Instruction



Multitenant LLM

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

[github.com/WFU-HPC/OOD-MultitenantApps](https://github.com/WFU-HPC/OOD-MultitenantApps)





Ollama\_Code from hpcfaculty (5689095)

1 node | 64 cores | Running

Host: >\_ gpu-a100-03.deac.wfu.edu

Created at: 2025-09-30 11:44:34 EDT

Time Remaining: 57 minutes

Session ID: 9b669527-1941-40d3-97dc-d9b7383d7b85

Problems with this session? [Submit support ticket](#)

Make sure you have the Cline extension installed within Code Server. Use the following parameters to configure Cline:

Use your own API key

API Provider: Ollama

Use custom base URL: ✓

Base URL: http://>\_ gpu-a100-03.deac.wfu.edu:8080/

Model: gpt-oss:120b

Launch Code Server

# 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](https://openondemand.org/events)

# Free Support Program



## Discuss on Discourse

The Get Help category features user and admin questions and answers.

[openondemand.org/discourse](https://openondemand.org/discourse)



## Slack Workspace

Communicate and collaborate with the project team and community members.

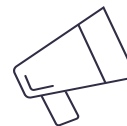
[openondemand.org/slack](https://openondemand.org/slack)



## GitHub Documentation

Outlines installation steps, app guidelines, release notes, and more.

[openondemand.org/docs](https://openondemand.org/docs)



## Constant Contact Newsletter

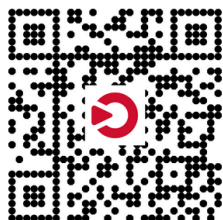
Subscribe to get notices about upcoming events, new releases and user stories.

[openondemand.org/newsletter](https://openondemand.org/newsletter)

[openondemand.org/support](https://openondemand.org/support)

# Paid Support Program

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

[openondemand.org/subscribe](https://openondemand.org/subscribe)


# Paid Support Program

## 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](https://openondemand.org/subscribe)** for more information or email **[info@openondemand.org](mailto:info@openondemand.org)** to enroll in the Open OnDemand Support Program.

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# 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.

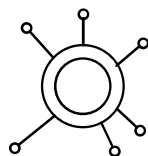
# Site Configuration

## 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**

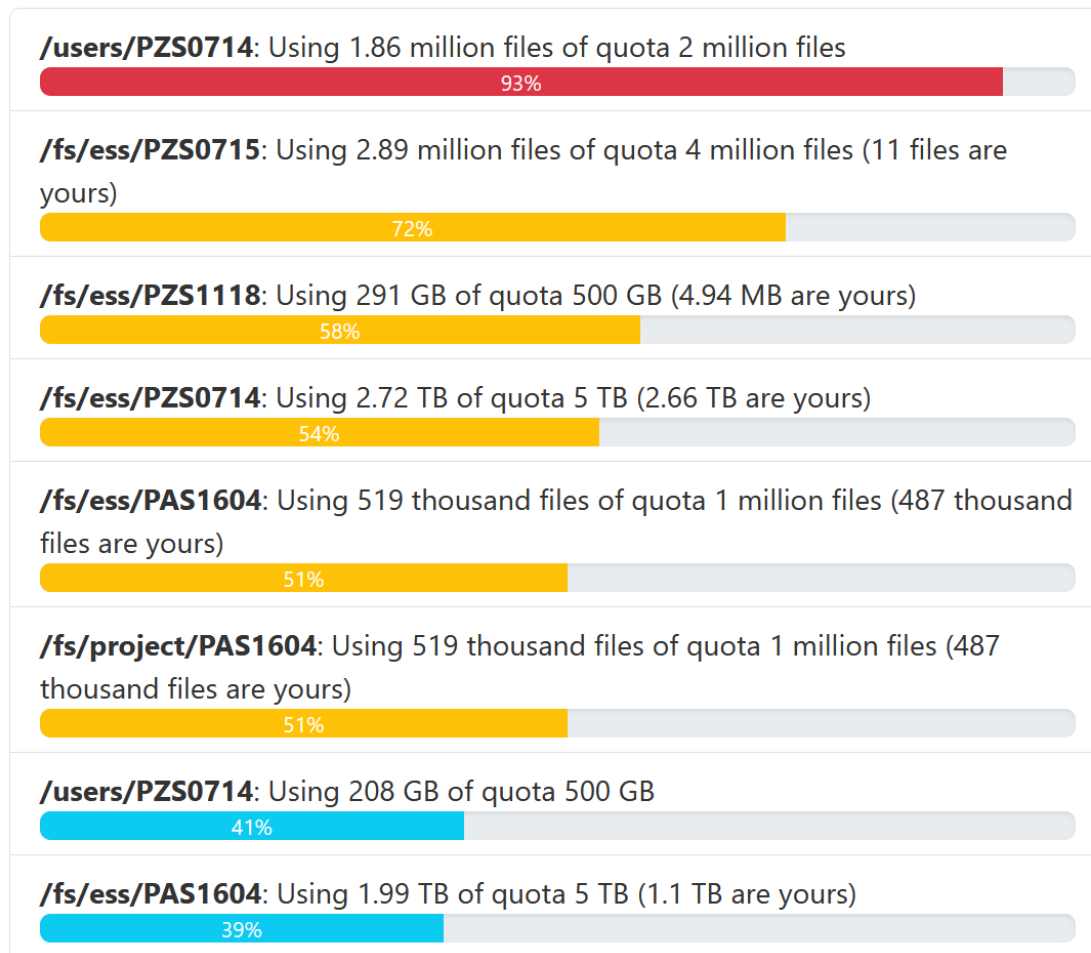


## 4.1 Features and Enhancements

- 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

## File Quotas



## Project Balances

**PZS0714:** dollar balance has an estimated 21 days remaining

**PAS0854:** dollar balance has an estimated 51 days remaining

# Integrated Module Browser

## Module Browser

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

### Search Modules

### 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

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# Integrated Module Browser

## Module Browser

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

Search Modules

Cluster

All Clusters ▾

Showing 1 results

Python

Available modules: (select version)

Cluster	Versions
Ascend	<a href="#">3.12</a> <a href="#">3.10</a>
Cardinal	<a href="#">3.12</a>
Pitzer	<a href="#">3.12</a>

Dependencies:

☒ None

Load command:

```
module load python
```

Copy

Search and expand for Python  
module information

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# Project Manager Updates

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](https://openondemand.org/github)



# Project Manager Updates

## Editing Launcher 1

**Cluster**  

ascend

Edit

**Script**  

blast.sh

Edit

How long the job can run for.

Hours

Hours

Queues

Account

Job Name

Log Location

Nodes

Environment Variable

Cores

Selecting  
the  
launcher  
form  
parameters

# Project Manager Updates

## Cluster

pitzer

☐ Fixed Value

ascend

Add

Remove

cardinal

Add

Remove

pitzer

Add

Remove

Edit

Save

Editing the launcher forms for  
your users

## Cluster

pitzer

ascend

pitzer

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# 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

## GitHub Main Repository: ondemand

OSC / ondemand Public

Notifications Fork 164 Star

Code **Issues 402** Pull requests 8 Discussions Actions **Projects 4** Wiki Security 5 Insights

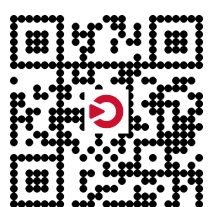
is:issue state:open

Labels **Milestones** New issue

Open 402 Closed 1,594

Author Labels Projects Milestones Assignees Types Newest

- File naming modal does not respond to 'enter' area/ux  
Bug #5014 · Bubbaloo3 opened 3 days ago · Backlog
- Add global items as options for launcher forms component/batch\_connect component/project\_manager  
Feature #5013 · Bubbaloo3 opened 3 days ago · Backlog
- Force app icons to be included on allowlist area/tech debt component/dashboard  
Task #5009 · Bubbaloo3 opened 3 days ago · Backlog



openondemand.org/github

Thank You!

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**Come visit us at booth ST-4**

[openondemand.org/sca26](https://openondemand.org/sca26)



# Open Floor Discussion

## Instructions

Go to

**[www.menti.com](https://www.menti.com)**

Enter the code

**5253 2896**



Or use QR code