



Open OnDemand

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OSC has a job opening on the Open OnDemand team!

Full details are available here:

<https://www.oh-tech.org/employment#ohio-supercomputer-center>

This work is supported by the National Science Foundation of the United States under the awards NSF SI2-SSE-1534949 and CSSI-Software-Frameworks-1835725.

Supercomputing. Seamlessly.

An intuitive, innovative, and interactive interface to remote computing resources

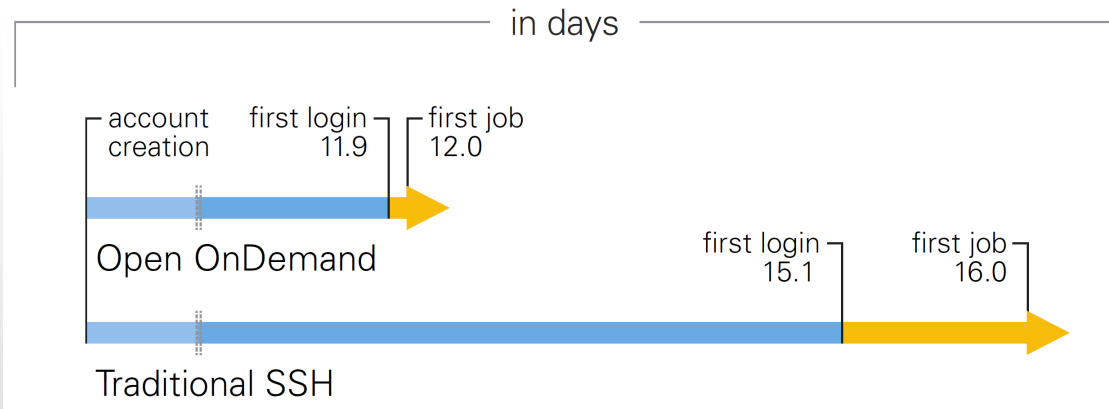
Open OnDemand helps computational researchers and students efficiently utilize remote computing resources by making them easy to access from any device. It helps computer center staff support a wide range of clients by simplifying the user interface and experience.

Key Benefits & Impact

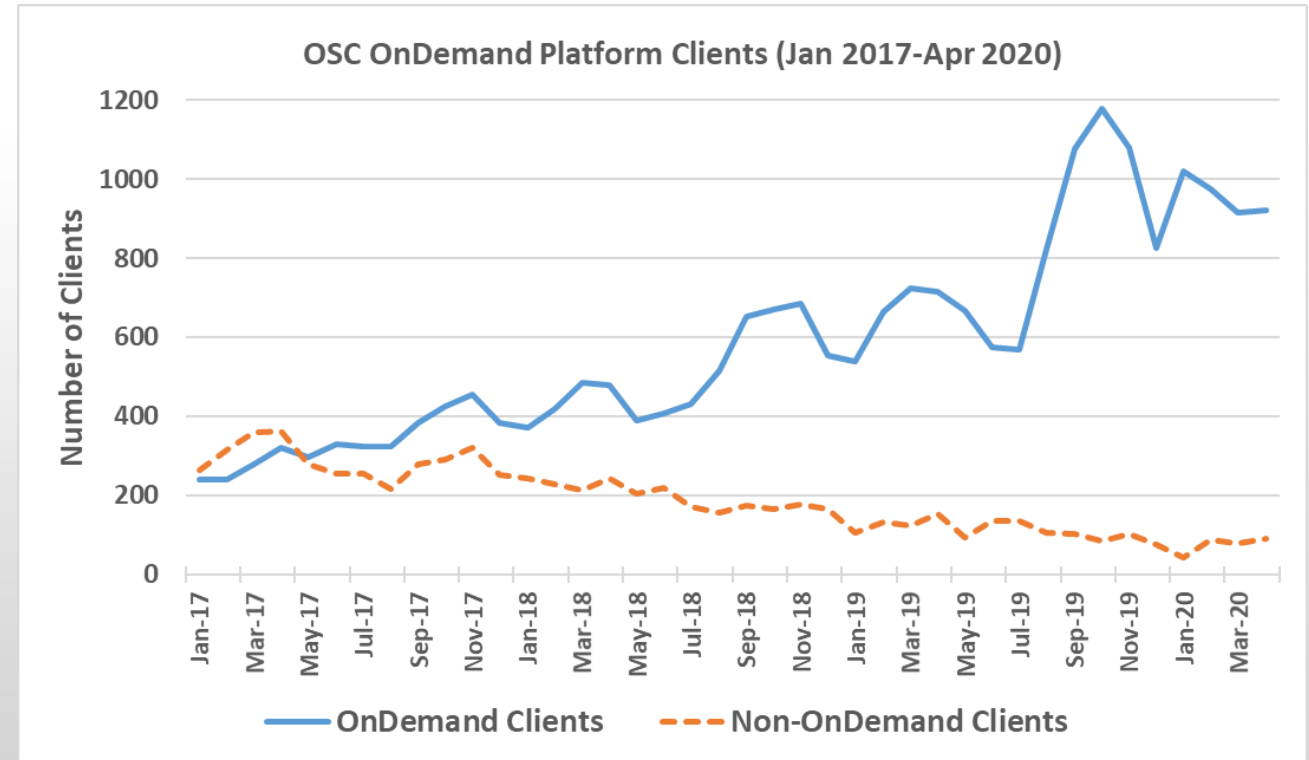
- Key benefit to you, the end user:
You can use any web browser to access resources at a computing service provider.
- Key benefit to you, the computer center staff:
A wide range of clients/needs can utilize your computing resources.
- Overall impact:
Users are able to use remote computing resources faster and more efficiently.



Impact at OSC

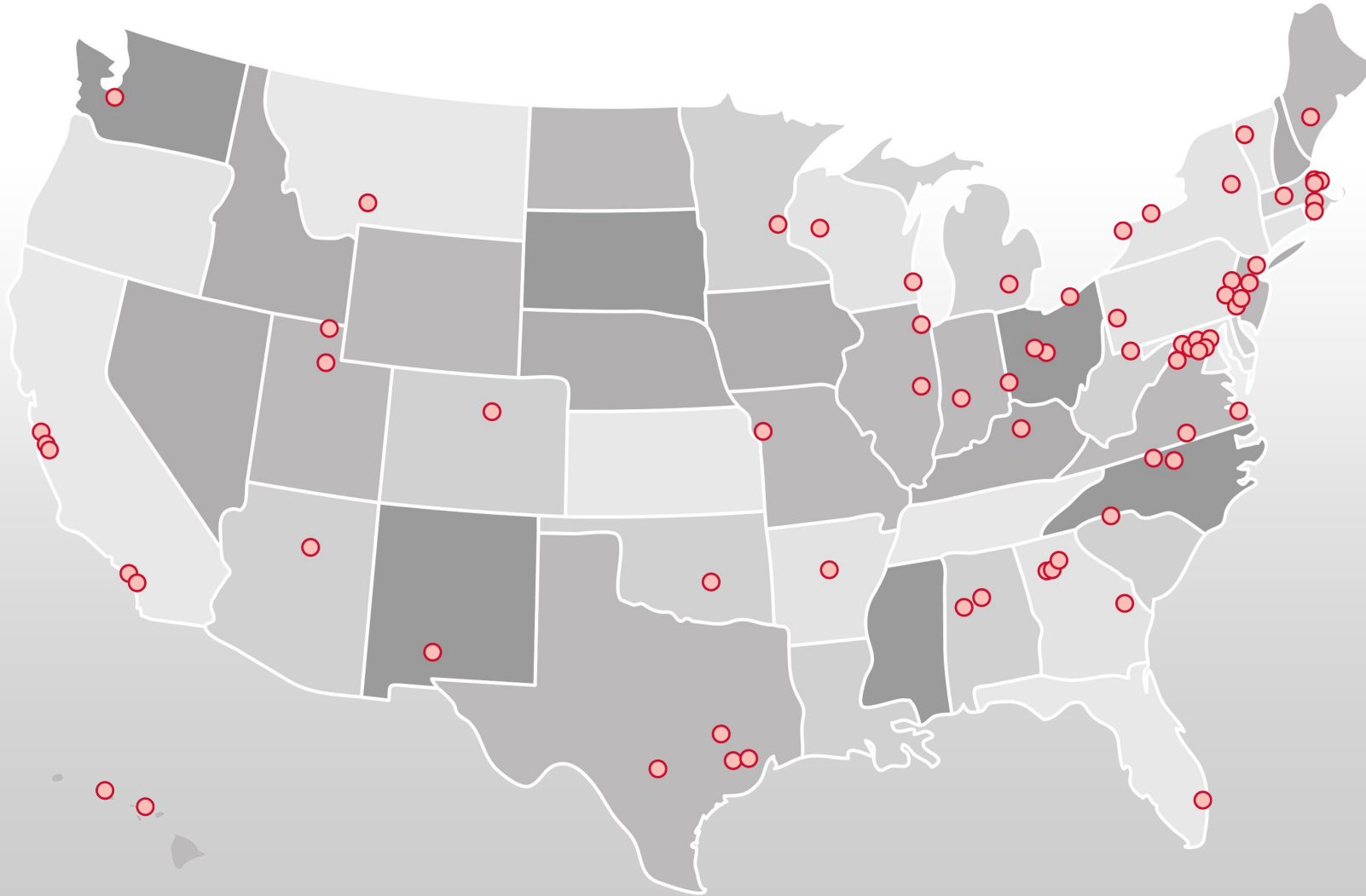


OnDemand users start work faster than traditional users, both in terms of first login and job submission



Launched Sep. 2016, % users has steadily increased since launch

Approx Number of Institutions based on RPM logs



- 136 unique US locations
- 70 unique international locations

Example Current Engagements and Deployments

In Process of Installing



Production Deployments



Find Out More!

openondemand.org

- Use our Discourse instance for help
- Join our mailing list for updates
- Our webinars are roughly quarterly

The screenshot shows the Open OnDemand website homepage. At the top left is the logo with the word "OPEN" in a black box above "OnDemand" in a large, bold, black font. Below the logo is the tagline "Supercomputing. Seamlessly. Open, Interactive HPC Via the Web". To the right of the tagline are three buttons: "View On GitHub", "Read The Docs", and "Discuss on Discourse". Below these are two more buttons: "Download our Figshares" and "Visit OSC's Website". To the right of these is a button that says "Join the News List". Below the buttons is a paragraph of text: "Don't hesitate to reach out to the developers via our [Discourse instance](#) if you would like more information or need help installing or configuring Open OnDemand." Below this is a citation: "Please cite us Hudak et al., (2018), Open OnDemand: A web-based client portal for HPC centers. Journal of Open Source Software, 3(25), 622. <https://doi.org/10.21105/joss.00622>". Below the citation is another paragraph: "This material is based upon work supported by the National Science Foundation under grant numbers 1534949 and 1835725." On the right side of the page is a section titled "Overview". Below the title is a paragraph: "Open OnDemand is an NSF-funded open-source HPC portal based on OSC's original OnDemand portal. The goal of Open OnDemand is to provide an easy way for system administrators to provide web access to their HPC resources, including, but not limited to:". Below this is a bulleted list: "• Plugin-free web experience", "• Easy file management", "• Command-line shell access", "• Job management and monitoring across different batch servers and resource managers", "• Graphical desktop environments and desktop applications". Below the list is a paragraph: "See the [documentation](#) for installation directions, app development tutorials, and an overview of the components and applications that make up OnDemand. We also have a [walkthrough video](#) showing the various components of an Open OnDemand instance available." Below this is a section titled "Organizations using or exploring OnDemand". Below the title is a paragraph: "Below is a list of organizations that have deployed or are looking at deploying Open OnDemand. Please contact us via the [news list](#) if your organization is not on this list and should be included!". Below this is another paragraph: "We also have a [page with testimonial comments from many of these organizations](#)".

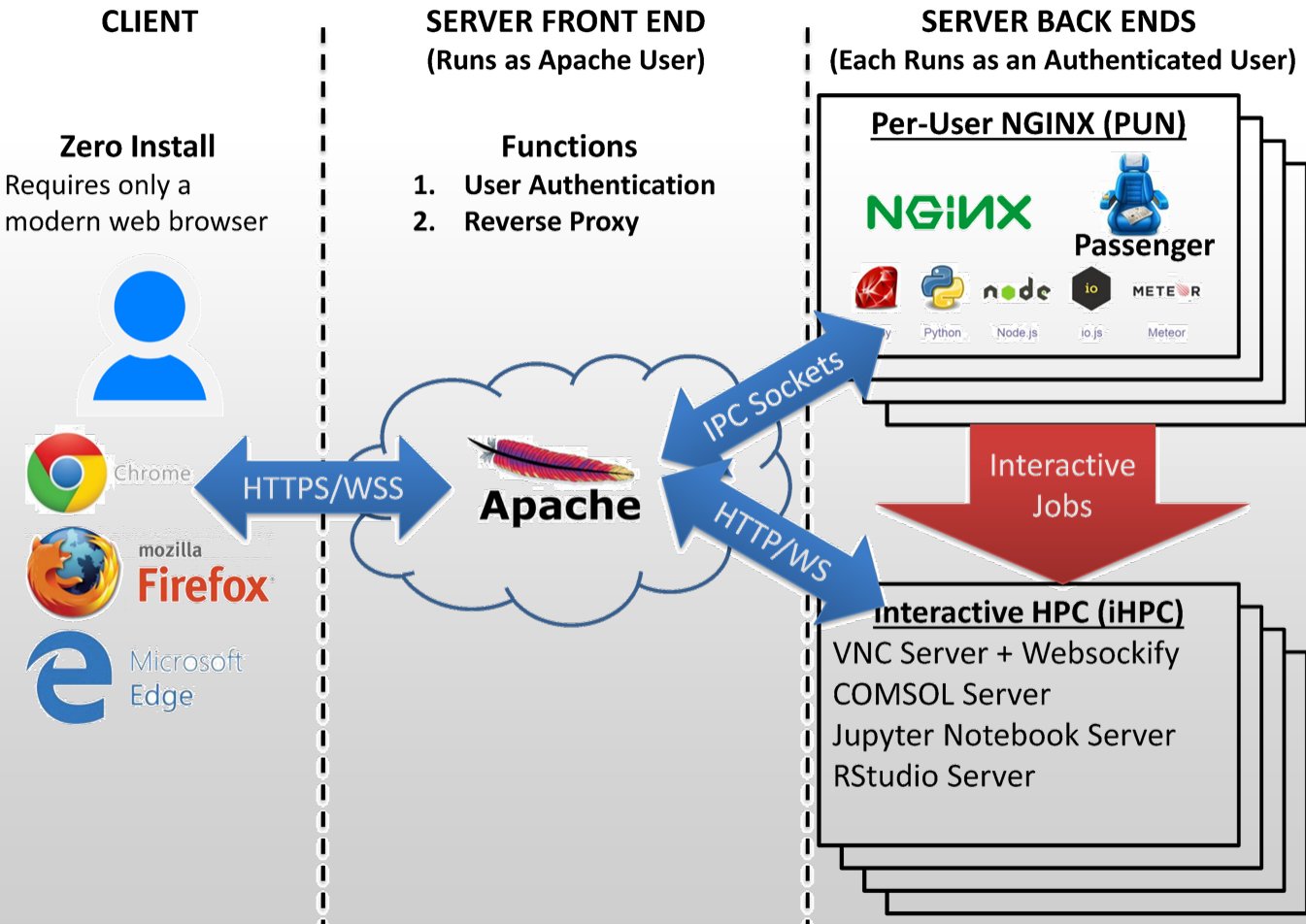
Open OnDemand 2.0 Project Overview

- Previous three year NSF SI2 award (#1534949) to develop OnDemand 1.x
- Awarded followon NSF CSSI award (#1835725) to develop OnDemand 2.x
 - Project runs from Jan 2019 to Dec 2023
 - Collaborators include SUNY Buffalo and Virginia Tech
- Four areas
 - **Visibility:** Enhancing resource utilization visibility by integrating the existing Open XDMoD platform
 - **Scalability:** support more types of computing resources and software
 - **Accessibility:** appeal to more scientists in more fields of science
 - **Engagement:** establish community of departmental, campus and national HPC users and administrators

Open XDMoD

- XDMoD: XD Metrics on Demand
- On demand access to job accounting & performance data
- Optimize resource utilization & performance
 - Utilization metrics
 - Measure infrastructure QoS
 - Job and Cloud level performance data
- 200+ academic & industrial installations worldwide
- <http://open.xdmod.org/>

Architecture



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Please cite us [Hudak et al., \(2018\), Open OnDemand: A web-based client portal for HPC centers. Journal of Open Source Software, 3\(25\), 622. https://doi.org/10.21105/joss.00622](#)

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Overview

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- Plugin-free web experience
- Easy file management
- Command-line shell access
- Job management and monitoring across different batch servers and resource managers
- Graphical desktop environments and desktop applications

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Organizations using or exploring OnDemand

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