OPEN OnDemand

Innovative web-based portal reduces barrier to supercomputer use

Open OnDemand offers widely shareable access to HPC centers

Open OnDemand, developed by the Ohio Supercomputer Center and funded by the National Science Foundation, is an innovative, open-source, web-based portal for accessing high performance computing services. Through Open OnDemand, HPC clients can upload and download files, create, edit, submit and monitor jobs, create and share apps, run GUI applications and connect via SSH, all via a web browser, with no client software to install and configure. All you need is a web browser, a username and a password to access powerful computing services.

OnDemand can be installed on a variety of HPC operating systems, such as REHL and CentOS; and on a variety of resource managers such as Torque, PBS Pro, LSF, Slurm and SGE. It already is being used at a number of HPC centers, is being evaluated at others and is ready for installation, customization and deployment at your center.

Get started by accessing our website for files and installation directions.

openondemand.org

User benefits:

HPC access

File access
(browse, view, edit)

Job control
(submit, monitor, delete)

Single point of entry for HPC Center's services

Zero install
(completely browser based)

Admin benefits:

Firewall friendly
(keep traffic on https port)

Installable on a range of cluster sizes and architectures

Easy onboarding of users new to HPC

Faster Time to Science

Using OnDemand vs. traditional SSH access*

in hours

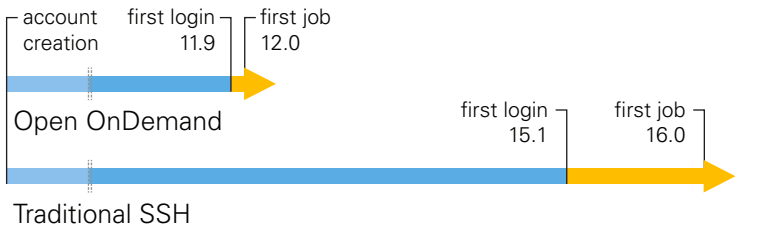
76

less hours between account creation & first login

20

less hours between first login & first job

in days



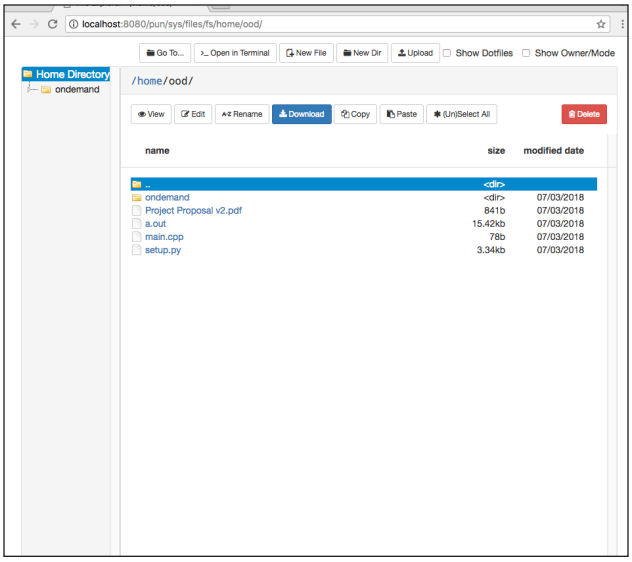
*Data set: Median times from 1712 OSC accounts created in 2017

This project is maintained by the Ohio Supercomputer Center (OSC), a member of the Ohio Technology Consortium, the technology and information division of the Ohio Department of Higher Education. | openondemand.org | This material is based upon work supported by the National Science Foundation under grant number 1534949.

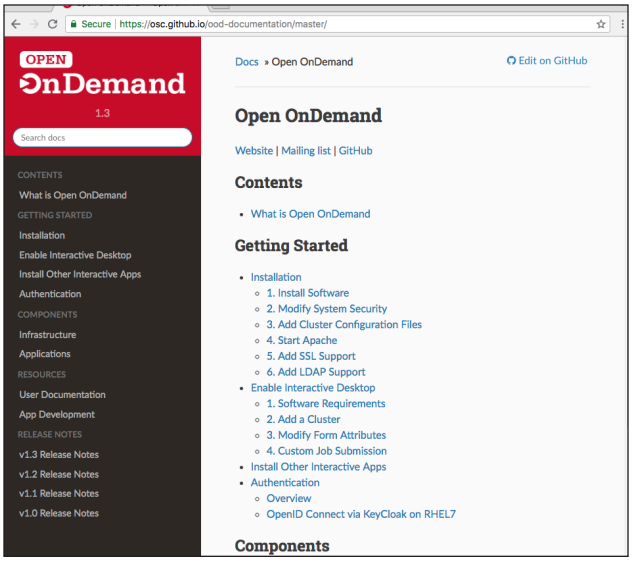
OPEN OnDemand

Try Open OnDemand Yourself

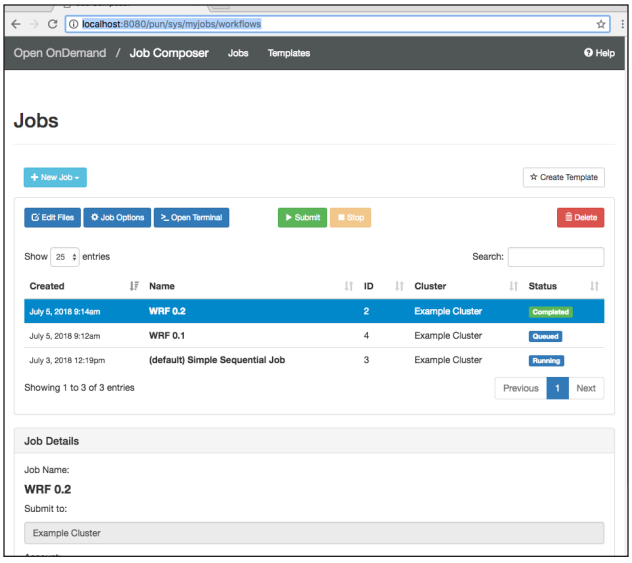
It is simple to set up a live demo of Open OnDemand to evaluate the application. Install the free tools, Vagrant and Virtualbox, and follow the directions at **go.osu.edu/ood-images-full**. Once the steps are complete, explore Open OnDemand's documentation and core applications — Files, Editor and Job Composer — for more information.



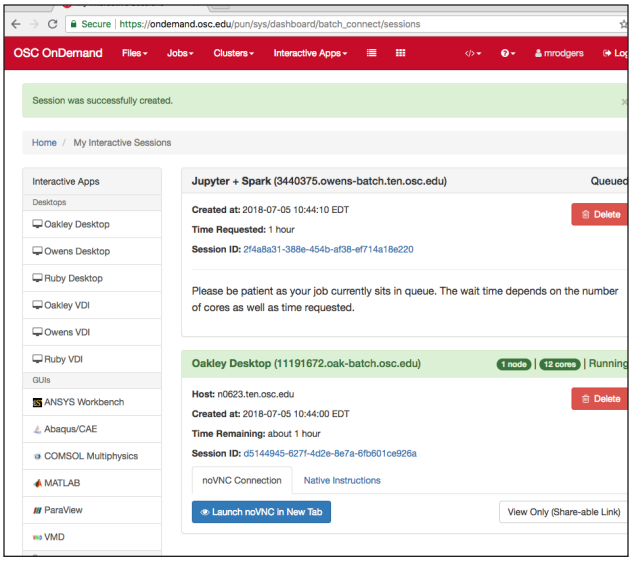
Upload, edit and manage your files from the web browser.



Read online documentation for more on installation, configuration and developing site-specific applications.



Submit and manage existing jobs using the Job Composer.



Install a number of interactive applications, including virtual desktops, Jupyter, RStudio and others.

Ohio Supercomputer Center

1224 Kinnear Road | Columbus, OH 43212
(614) 292-9248 | **osc.edu**