



Open OnDemand: Interactive HPC via the Web



3/8/2023







Outline

- What is Open OnDemand?
- Open OnDemand architecture
- Open OnDemand at LSU and LONI
- Walkthrough (demo)
 - Logging into Open OnDemand
 - File explorer
 - Shell Access
 - Submit and monitor jobs
 - Interactive applications: Jupyter Notebook/Lab, RStudio, etc.









What is Open OnDemand

- Interactive HPC via the web
 - Easy to use, plugin-free, web-based access to supercomputers
 - File management
 - Command line shell access
 - Job management and monitoring
 - Interactive applications (e.g. Jupyter, RStudio)
- Developed by Ohio Supercomputing Center through NSF-funded projects
- Deployed at dozens of universities and supercomputing centers

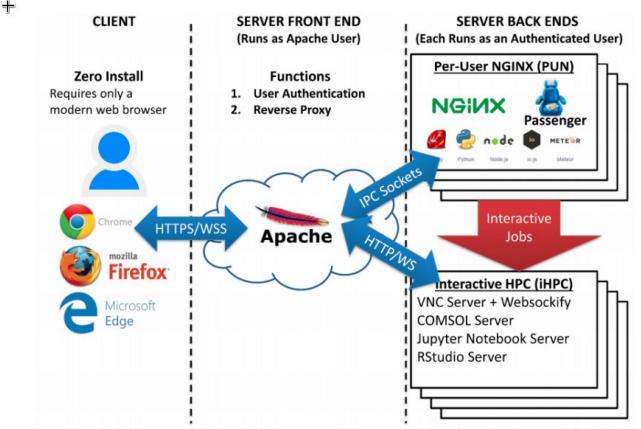








Open OnDemand Architecture











Getting Started

Center for Computation & Technology Chief Information	HIGH PERFORMANC COMPUTING	Louisiana Optical Netw	ork Initiative	Corporate Visito	rs
	Provide Website Feedback Accessibility Statement Main Menu - login to site - request login - Request Allocation for smic - Request Allocation for deepbayou - About	Username: Password: Login	Ir password?	P	rovide Website Feedback ccessibility Statement Main Menu Iogin to site request login Request Allocation for Dell_Cluster About

To access the portal: LSU/LONI HPC account To run jobs/apps: LSU/LONI HPC allocation









Access Open OnDemand - LSU

LSU High Performance Computing) LSU HPC OnDemand Apps + Files + Jobs + Clusters + Interactive Apps + 🚽
	CODEmand provides an integrated, single access point for all of your HPC resource
High Performance Computing	Pinned Apps A featured subset of all available apps
LSU High Performance Computing OPEN SnDemand	Interactive Apps
og in with your LSU HPC username and password.	jupyter jupyter
sername	Cellranger(beta) Deep Learning (container-based Jupyter Jupyter Notebook/Lab System Installed App System Installed App System Installed App System Installed App
ssword	Message of the Day
	Welcome to the LSU HPC OnDemand porta
Log in to Open OnDemand	With the OnDemand web portal, you can: • Manage, download and upload files to the HPC systems (click links in the "Files" on the top of this • Check allocation balances • Check disk usage and quotas
No LSU HPC account? Click here to request one.	 - Check (ob status - Submit (obs using templates - Access HPC systems via a terminal - Accuss HPC systems via a terminal - Rum interactive apps such as Jupyter Notebook/Lab and Rstudio (click links in the "Interactive App page)

Log in with LSU HPC credentials at https://ondemand.smic.hpc.lsu.edu



- **1.** Open OnDemand is currently on SuperMIC only.
- 2. To connect outside of LSU campus, use the LSU VPN.

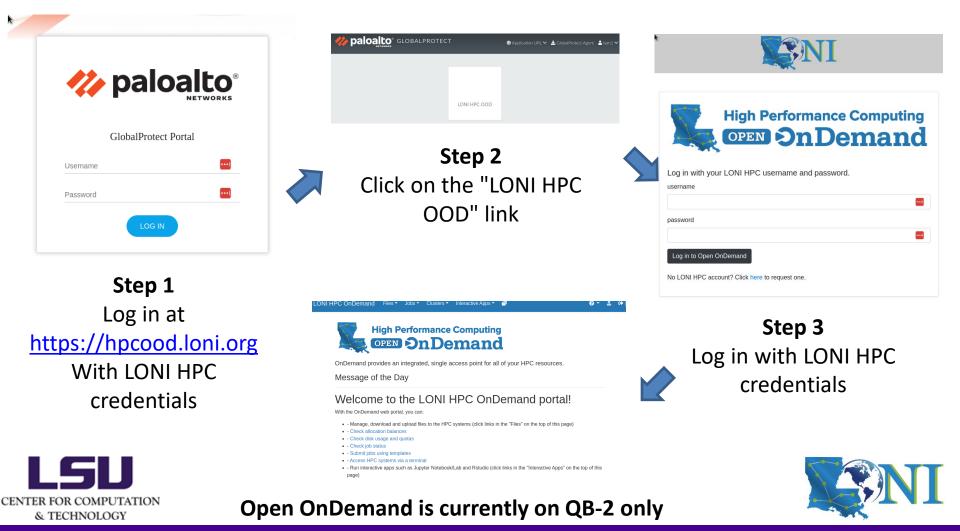




3/8/2023



Access Open OnDemand – LONI – Option 1







Access Open OnDemand – LONI – Option 2



Log in at <u>https://hpcood.loni.org</u> With LONI HPC credentials

Welcome to the LONI HPC OnDemand portal! With the OnDemand web portal, you can: • - Manage, download and upload files to the HPC systems (click links in the "Files" on the top of this page)

- Check allocation balances

Step 4 Log in with LONI HPC credentials at

https://ondemand.qb.loni.org





Start the agent and log in

with LONI HPC credentials

Open OnDemand is currently on QB-2 only

3/8/2023





Demo



3/8/2023







Questions?



3/8/2023

