# Open OnDemand: Interactive HPC via the Web

# 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
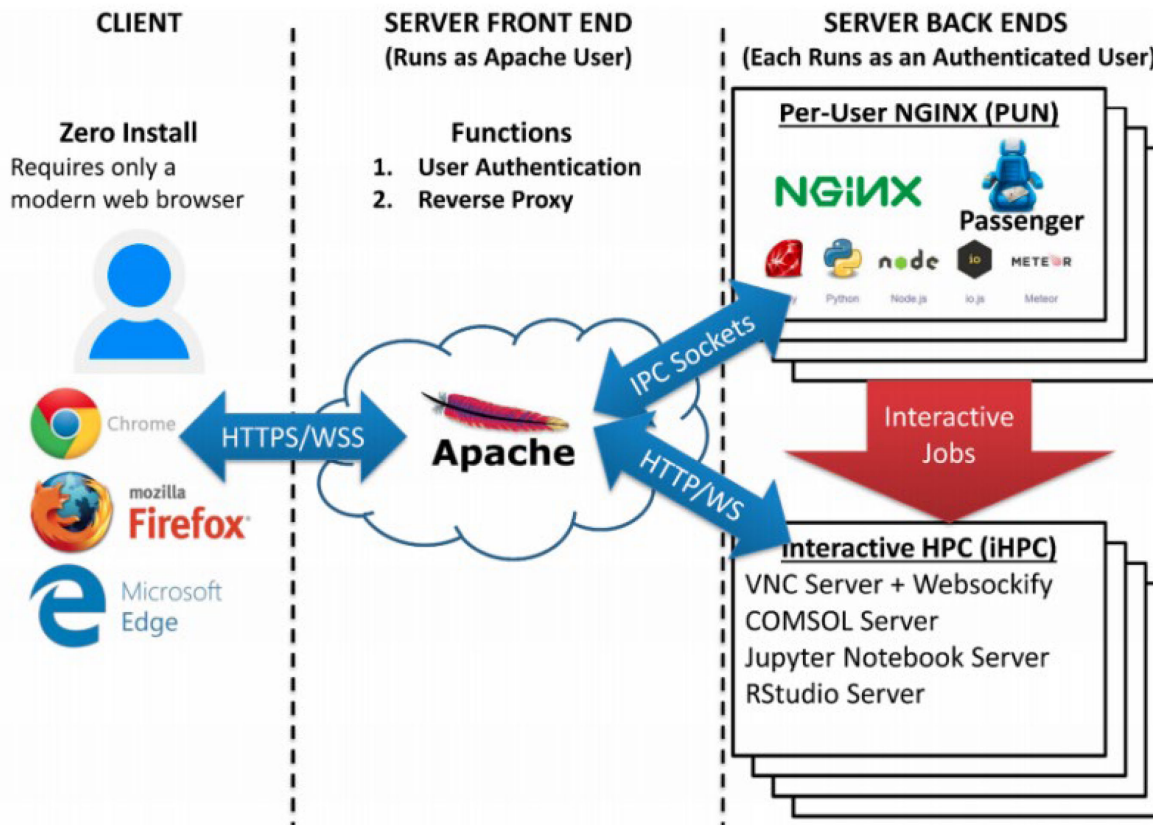
# Getting Started



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

# Access Open OnDemand - LSU



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.**

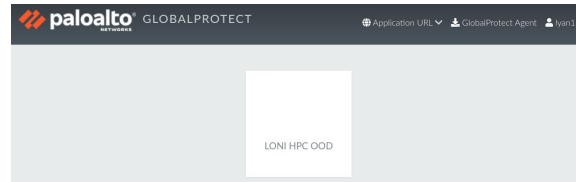# Access Open OnDemand – LONI – Option 1
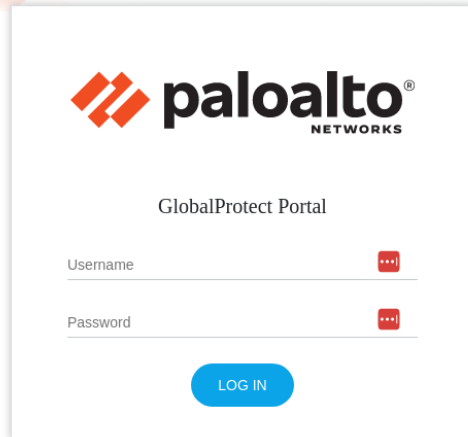


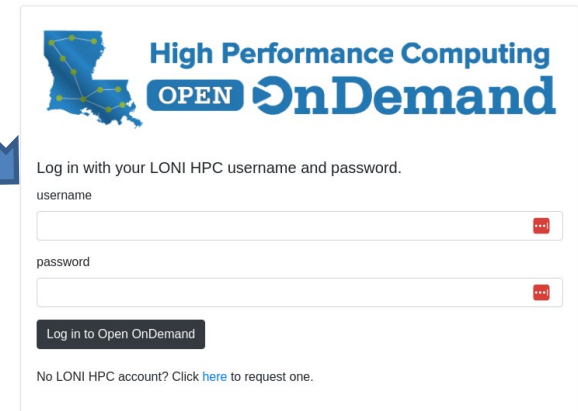**Step 1**
Log in at
https://hpcood.loni.org
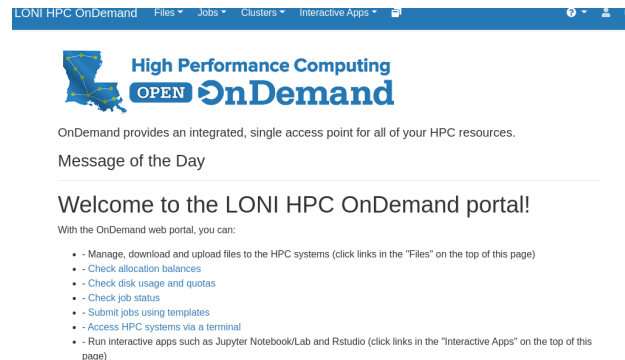With LONI HPC
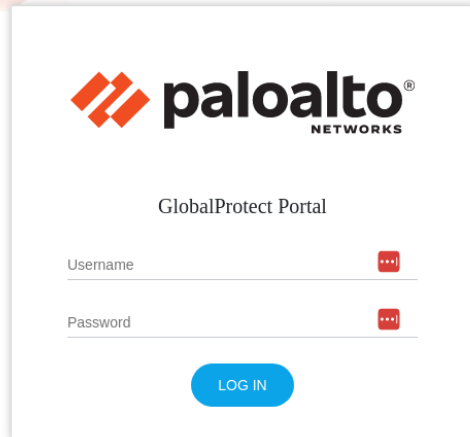credentials

**Step 2**
Click on the "LONI HPC
OOD" link

**Step 3**
Log in with LONI HPC
credentials

**Open OnDemand is currently on QB-2 only**

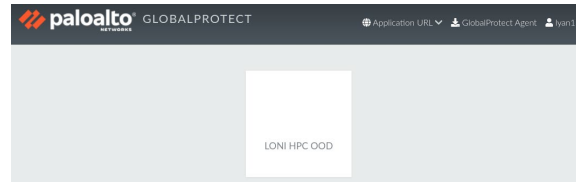# Access Open OnDemand – LONI – Option 2



**Step 1**
Log in at
https://hpcood.loni.org
With LONI HPC credentials

**Step 2**
Download and install the
GlobalProtect Agent (Top
right corner)

**Step 3**
Start the agent and log in
with LONI HPC credentials

**Step 4**
Log in with LONI HPC credentials at
https://ondemand.qb.loni.org

**Open OnDemand is currently on QB-2 only**

# Demo

# Questions?