Wulver Cluster Tools & Monitoring

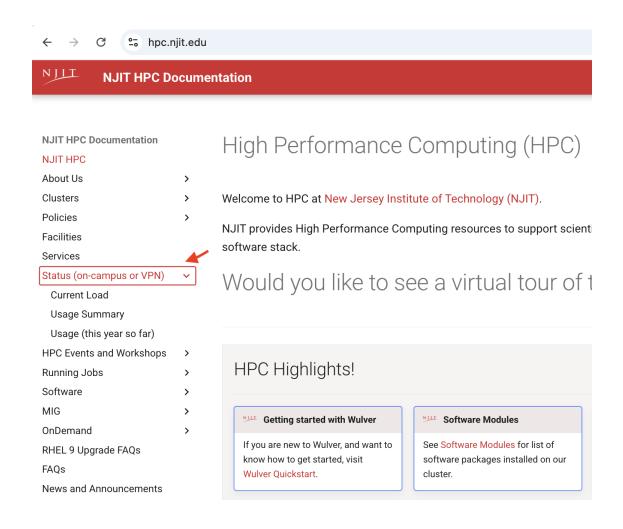
HPC User Meeting

October 22, 2025

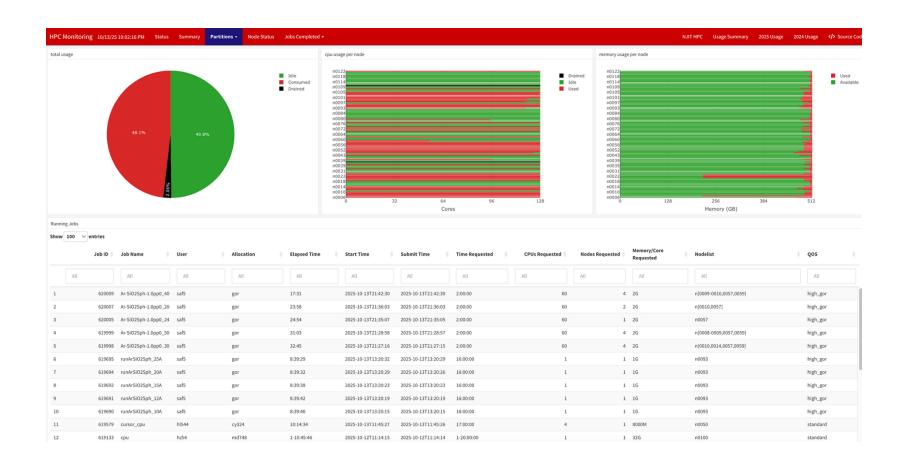
Agenda

- Wulver Cluster Tools & Monitoring
- Ondemand.njit.edu
- Command line tools
- Upcoming Events
- Q&A

Hpc.njit.edu Status Page

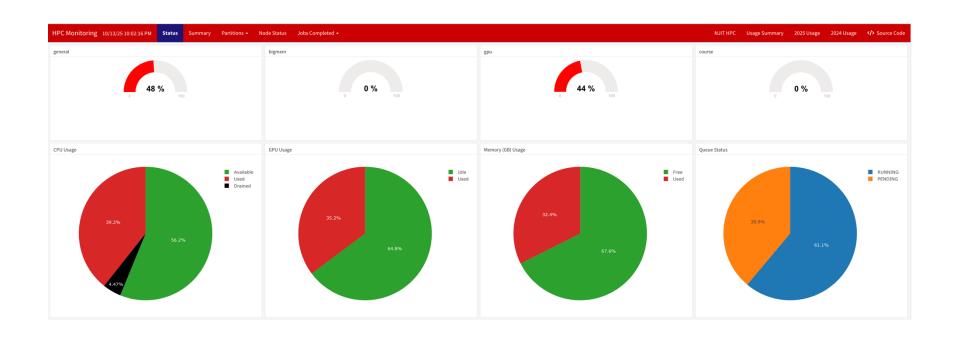


Monitoring Wulver





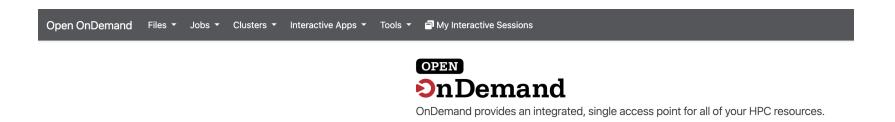
Managing and Monitoring Jobs





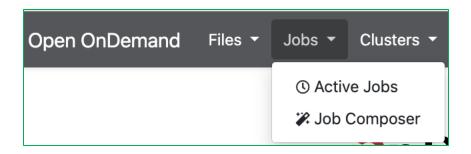
ondemand.njit.edu

For Wulver user, login via your UCID





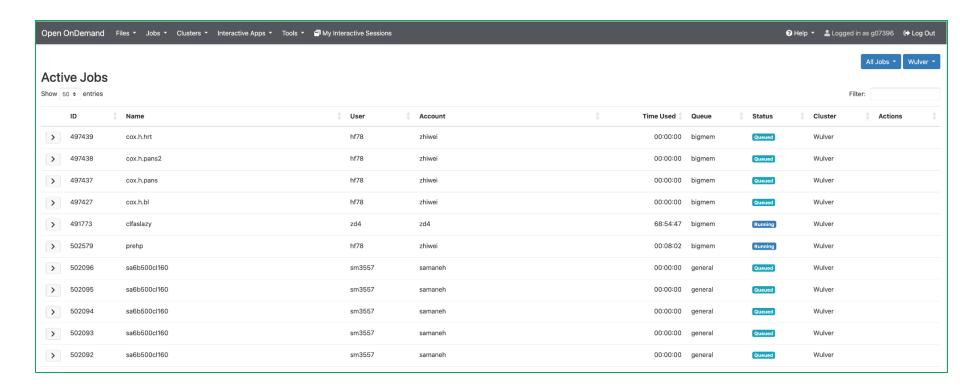
Jobs Menu and Active Jobs



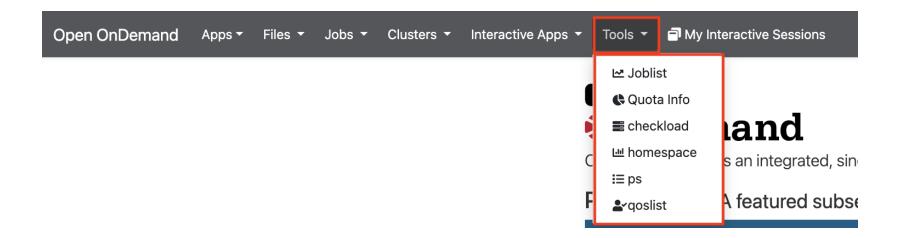
- Active Jobs: The Active Jobs window opens in a new tab which shows the list of all the active jobs in the cluster.
- Job Monitoring: Users can monitor job status, view job details, and track progress conveniently within the Open OnDemand portal.

Active Jobs

•The Active Jobs window opens in a new tab which shows the list of all the active jobs in the cluster.

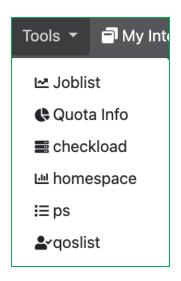


Tools – ondemand.njit.edu





Available Tools



Joblist

The checkload tool provides real-time information about the current load on the HPC cluster, assisting users in deciding the best time to run their jobs.

Quota Info

Quotainfo is a tool available in Open OnDemand to check disk usage quotas, helping users keep track of their allocated storage space on HPC clusters.

Additional Tools Available

Checkload

The checkload tool provides real-time information about the current load on the HPC cluster, assisting users in deciding the best time to run their jobs.

Homespace

Homespace tool offers details about the home directory space usage, enabling users to manage their files and storage efficiently within their personal workspace.

qoslist

for a User Across All
Associated Accounts

Command line Tools – managing jobs

- seff
- squeue
- scancel
- quota_info
- checkq
- checkload
- slurm_jobid
- https://hpc.njit.edu/Running_jobs/managing-jobs/



Seff – check mem efficiency

```
$ seff
Usage: seff [Options] <Jobid>
          Options:
          -h Help menu
          -v Version
          -d Debug mode: display raw Slurm data
```

```
$ seff 575079

Job ID: 575079

Cluster: wulver
User/Group: ls565/ls565

State: COMPLETED (exit code 0)

Cores: 1

CPU Utilized: 00:00:19

CPU Efficiency: 67.86% of 00:00:28 core-walltime
Job Wall-clock time: 00:00:28

Memory Utilized: 4.21 MB

Memory Efficiency: 0.11% of 3.91 GB
```

File management

- Rsync
- Scp
- Ondemand.njit.edu



RSYNC

To HPC (Upload):

rsync -avzP /path/to/local/machine \$UCID@wulver.njit.edu:/path/to/destination

From HPC (Download):

rsync -avzP \$UCID@wulver.njit.edu:/path/to/source/path/to/local/machine

Flags: -a (archive), -v (verbose), -z (compress), -P (progress + resume)

Tip: Replace \$UCID with your NJIT username. Ensure SSH access to wulver.njit.edu.

scp File Transfer

From HPC to Local Machine:

scp [option] \$UCID@wulver.njit.edu:/path/to/source/file [target/path]

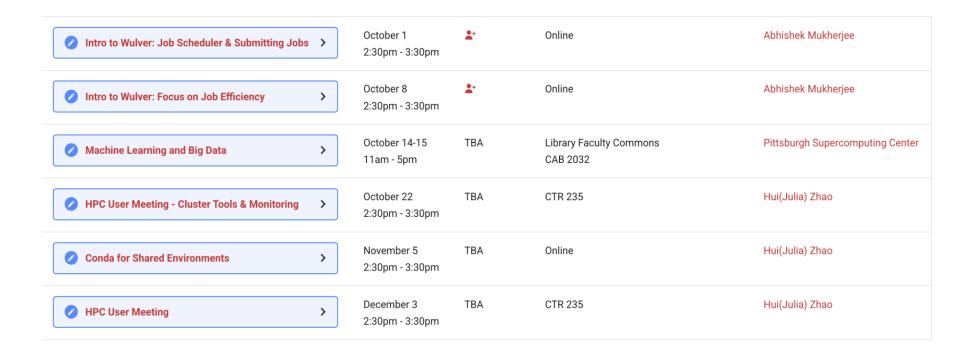
From Local Machine to HPC:

scp [option] [path/to/source/file] \$UCID@wulver.njit.edu:/target/path

Tip: Use '-r' option for recursive copy of directories.

Replace \$UCID with your NJIT username. Ensure SSH access to wulver.njit.edu.

Upcoming Events



IST Staff Faculty Open House, Tuesday, October 28, 3:00-4:30pm Location: The Campus Center Atrium

IST Student Open House, Monday November 10

