Working on the Hoffman2 cluster

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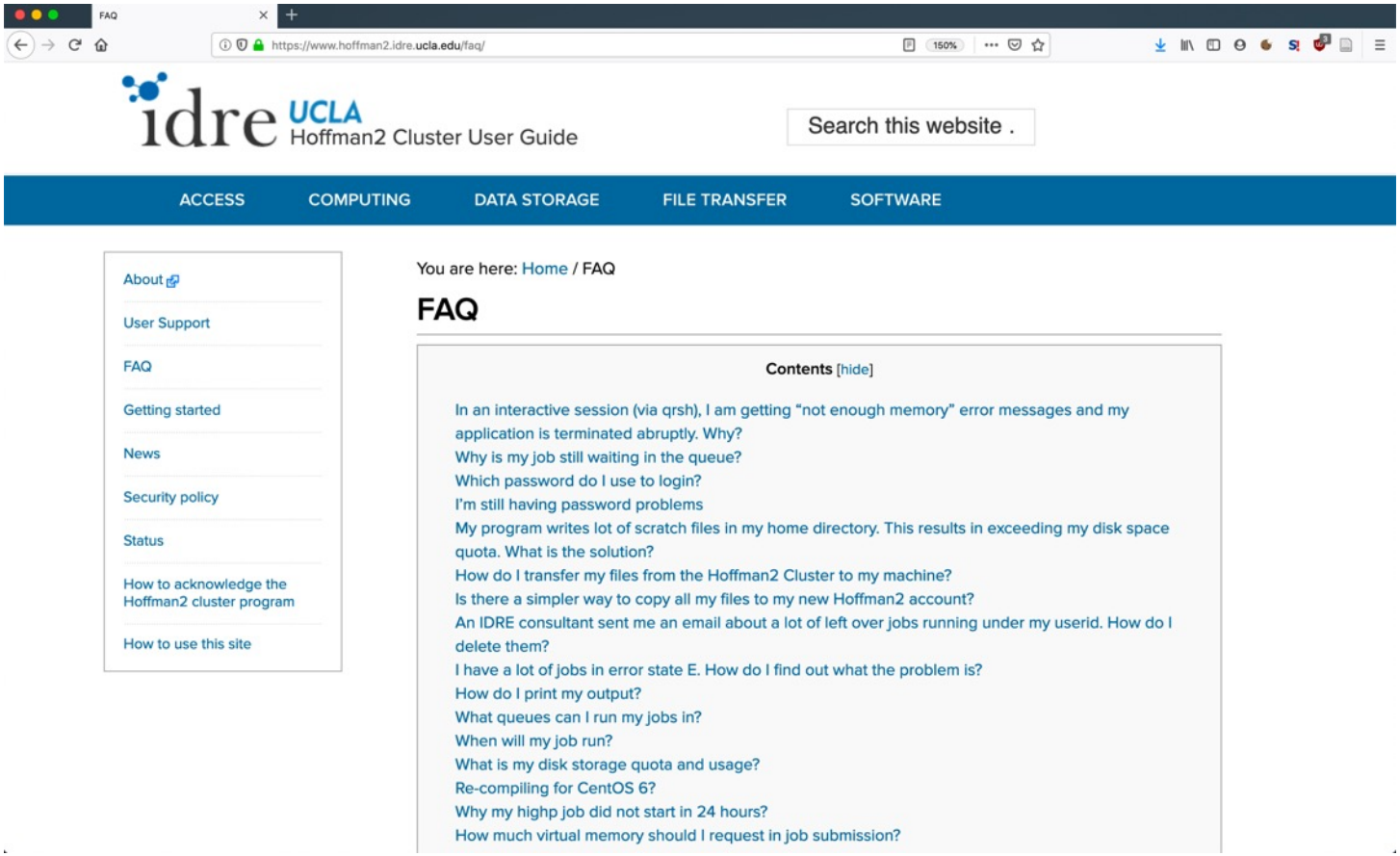
Homepage & Resources:

https://www.hoffman2.idre.ucla.edu/

Also, https://idre.ucla.edu/



Connecting to the cluster

- **Remote shell**
  `ssh USER@hoffman2.idre.ucla.edu`

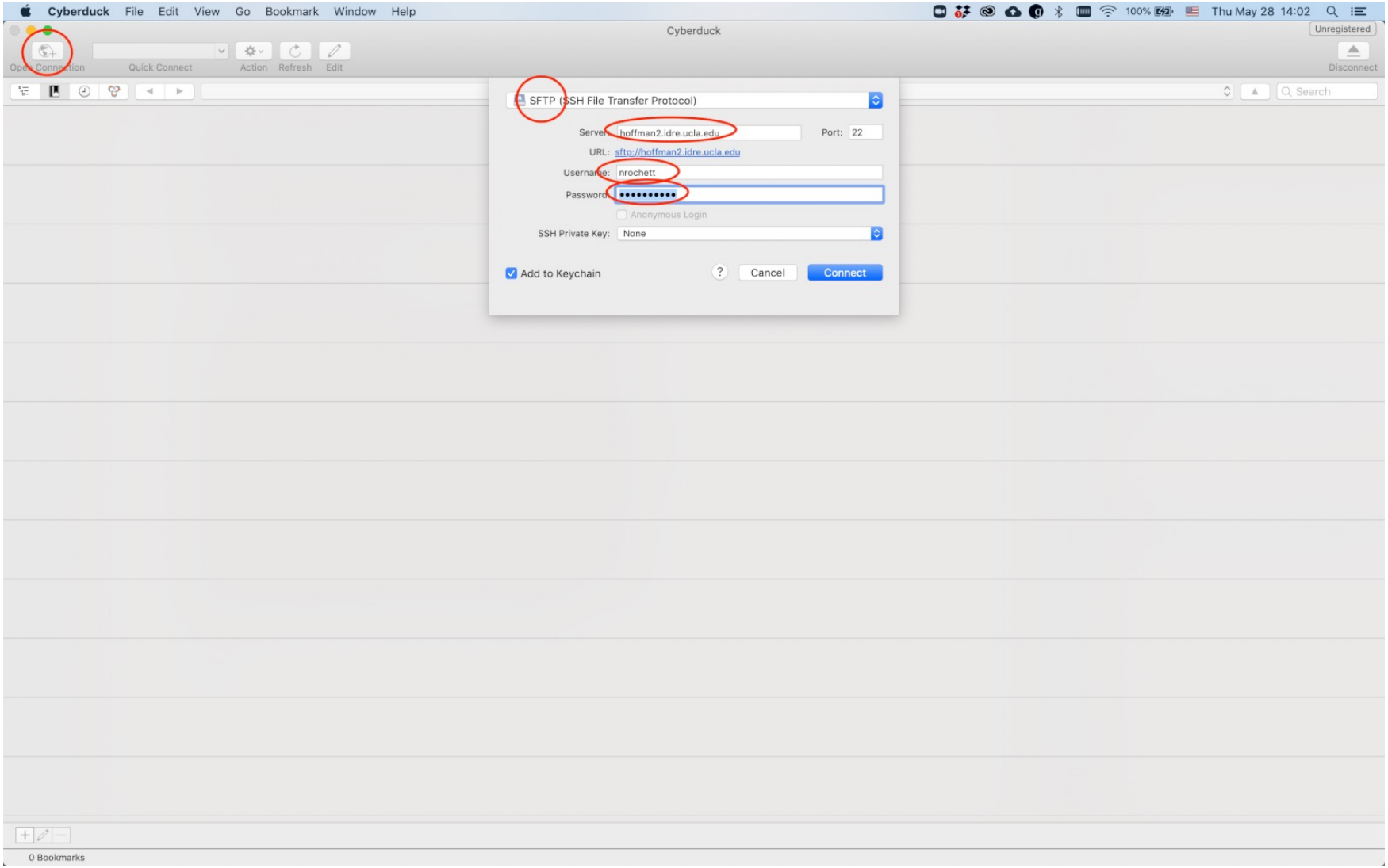
  - Once connected, **start an "interactive job"** requesting 2 hours and 8GB memory:
    `qrsh -l h_rt=2:00:00,h_data=8G`

    N.B. spaces or their absence DO MATTER; there must be no spaces around commas.

- **Remote File transfer**
  Download:
  `scp USER@hoffman2.idre.ucla.edu:/PATH/TO/FILE ~/Desktop/`
  Upload:
  `scp ~/Desktop/FILE USER@hoffman2.idre.ucla.edu:~/`

  - Interactive clients exist:
    Cyberduck, FileZilla…

Cyberduck: setup for Hoffman2



Essential Hoffman2 commands

- Request an interactive job:
  `qrsh`
  (Do not run computationally heavy commands on the login node!)
- Submit a batch/script job:
  `qsub –N JOBNAME script.sh`
- Main resource options for jobs:
  Time: **`-l h_rt=4:00:00`**
  Memory / RAM: **`-l h_data=8G`**
- List current jobs: **`myjobs`** (or `qstat –u $USER`
  Main job states are **`r`** (for running) and **`qw`** (for queued-waiting)
- Modules:
  `module load` `NAME`
  `module avail`

Hoffman2 disk spaces

- Home directory
  `/u/home/?/USER`
  N.B. 20 GB max. — but t*he workshop files are light enough so that we will be able to work there.*
- Scratch space
  `/u/flashscratch/?/USER`
  N.B. 2 TB max, but data on the scratch disk is considered abandoned after two weeks, as it is intended for "temporary" files.
- Purchased space (cf. IDRE website):
  `/u/project/LABNAME/USERNAME`