Logging In

- We will follow the "Single Sign On via SSH Login Hub", so you can enter
  - ssh username@login.xsede.org
  - your XUP passcode
  - then ask for a push to your phone
  - more information is at https://portal.xsede.org/web/xup/single-sign-on-hub
- From the login portal, you can log into bridges/comet by entering
  - `gsissh bridges' or
  - `gsissh comet'
- To log out of a remote computer, press control-D

```
Minh-IIT-MBP2018:[~]: ssh daveminh@login.xsede.org
Please login to this system using your XSEDE username and password:
password:
Duo two-factor login for daveminh

Enter a passcode or select one of the following options:

 1. Duo Push to XXX-XXX-4139
 2. Phone call to XXX-XXX-4139

Passcode or option (1-2): 1
Success. Logging you in...
Last login: Sat Feb  1 13:41:10 2020 from 207.237.205.39

#  Welcome to the XSEDE Single Sign-On (SSO) Hub!
#
#  This system is for use by authorized users only, and is subject to the XSEDE
#  Acceptable Use Policy, described at https://www.xsede.org/usage-policies.
#  All activities on this system may be monitored and logged.
#
#  Your storage on this system is limited to 100MB. Backup is not provided.
#
#  From this system, you may login to other XSEDE system login hosts on which
#  you currently have an active account. To see a list of your accounts, visit:
#  https://portal.xsede.org/group/xup/accounts
#
#  To login to an XSEDE system login host, enter: gsissh <login-host>
#  where <login-host> is the hostname, alias or IP address of the login host.
#  The following default gsissh host aliases have been defined:
#
#        bridges  comet  mason  osg  rmacc-summit  stampede
#        stampede2  supermic  wrangler-iu  wrangler-tacc
#
#  For example, to login to the Comet system at SDSC, enter: gsissh comet
#
#  E-mail help@xsede.org if you require assistance in the use of this system.

[daveminh@ssohub ~]$ gsissh comet
Last login: Sat Feb  1 10:46:54 2020 from 149.165.168.51
Rocks 7.0 (Manzanita)
Profile built 13:03 03-Dec-2019

Kickstarted 14:18 03-Dec-2019

                WELCOME TO
     _____ __ _____
     -----/ ___/ __ \/ \/ / ___/_ _/
      --/ / / / //\_/ _/  //
       / /__/ /////// / /__ //
       \___/\___// //___// /

comet-ln3:[~]:
```

The Bridges File System

- As described in the <u>Bridges user guide</u> under "File Spaces", Bridges allows you to store data in
  - your home directory ($HOME) - shared across nodes, backed up, smaller quota (10 GB)
  - a "scratch" directory ($SCRATCH) - shared across nodes, not backed up, faster than $HOME, larger quota shared by class
  - the worker node for a job ($LOCAL) - only accessible by local node, not backed up and immediately deleted after job, faster than shared disk space, many terabytes of available space
  - the local memory for a job ($RAMDISK) - only accessible by local node, not backed up and immediately deleted after job, fastest storage
  - $(VARIABLE_NAME) is a variable that contains the actual location. The variable is available while logged onto Bridges
- Try `cd $SCRATCH', 'pwd', `cd $HOME', and 'pwd'