

# 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

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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

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comet-ln3:[~]: █

```

# The Bridges File System

- As described in the Bridges user guide 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`