Access to SoC Servers

- You need to be connected the Clemson University network

- On campus

  - that means eduroam.edu
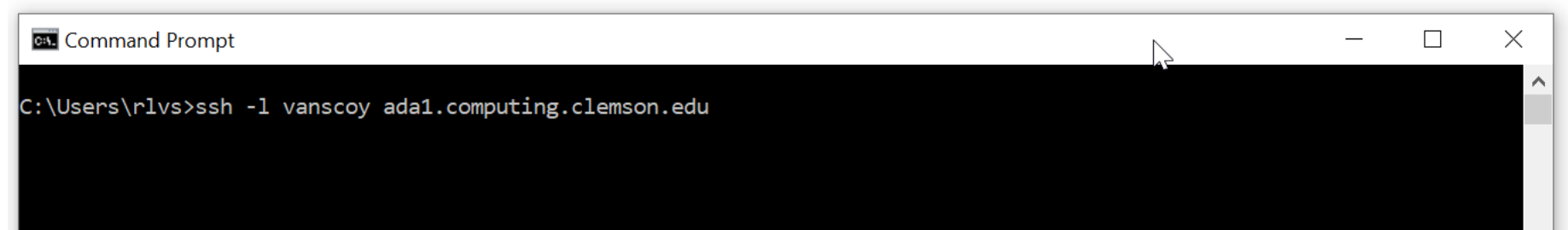
- Off campus,

  - that means making a VPN connection

Access to SoC Servers ON CAMPUS - 1

▶ Go to a School of Computing Lab computer (*McAdams*) and login using your CID

▶ Using your personal computer connected to CU's network, then:

ssh ada1.computing.clemson.edu

...

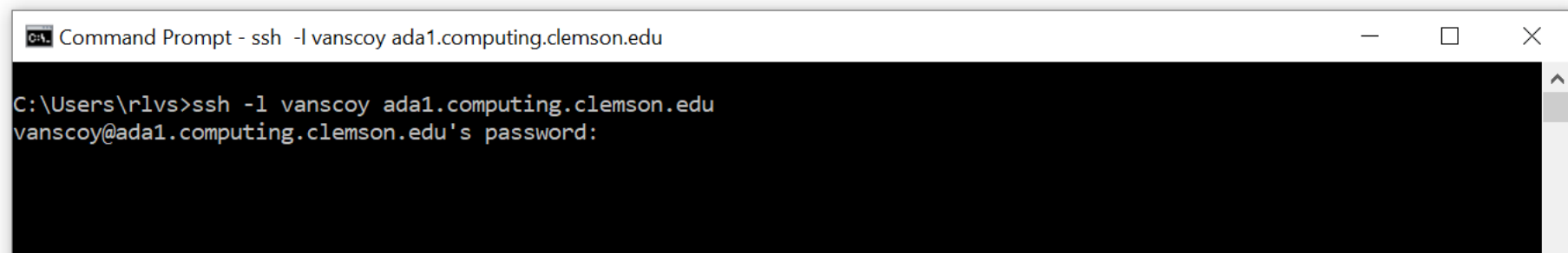ssh   ada17.computing.clemson.edu

```
C:\Users\rlvs>ssh -l vanscoy ada1.computing.clemson.edu
```

Access to SoC Servers ON CAMPUS - 2

▶ Login with your CU password:

```
Command Prompt - ssh  -l vanscoy ada1.computing.clemson.edu

C:\Users\rlvs>ssh -l vanscoy ada1.computing.clemson.edu
vanscoy@ada1.computing.clemson.edu's password:
```

Access to SoC Servers ON CAMPUS - 3

▶ And you're in:

```
OpenSSH SSH client                                                    —  □  ×

C:\Users\rlvs>ssh -l vanscoy ada1.computing.clemson.edu
vanscoy@ada1.computing.clemson.edu's password:
***************************************************************************
                        Welcome to the
              CLEMSON UNIVERSITY SCHOOL OF COMPUTING
                  Unauthorized use is prohibited!

               PARTIAL LIST OF PUBLIC CLIENT MACHINES
   Hostnames    Location     OS             Architecture   CPU Cores    Mem
   --------------------------------------------------------------------------
   ada1..17     McAdams 110A Ubuntu 16.04   x86_64 i5      4 x 3.40GHz  16GB
   babbage1..33 Barre B108   Ubuntu 16.04   x86_64 i7      4 x 3.60GHz  16GB
   joey1..20    n/a          Ubuntu 16.04   x86_64 i7      4 x 3.40GHz  16GB
   titan1..5    n/a          Ubuntu 16.04   x86_64 E5      4 x 3.00GHz  32GB
   newton       n/a          Ubuntu 16.04   x86_64 Xeon    24 x 2.40GHz 96GB

   * Off-campus SSH access: access.computing.clemson.edu
   * General information can be found at computing.clemson.edu/help
   * Virtual Linux Desktop: virtual.computing.clemson.edu
   * Questions or problems with Linux lab systems? Email ithelp@clemson.edu
     or see the friendly folks in 123, 127, 128, or 129 McAdams

*************************** Last updated: 2019-05-03 ***************************
Last login: Wed Jul 31 12:41:43 2019 from 172.23.3.218
[12:45:40] vanscoy@ada1:~ [1] pwd
/home/vanscoy
[12:45:54] vanscoy@ada1:~ [2]
```
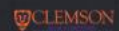
Access to SoC Servers via Web Browser

▶ Using your laptop connected to the CU network

▶ https://virtual.computing.clemson.edu
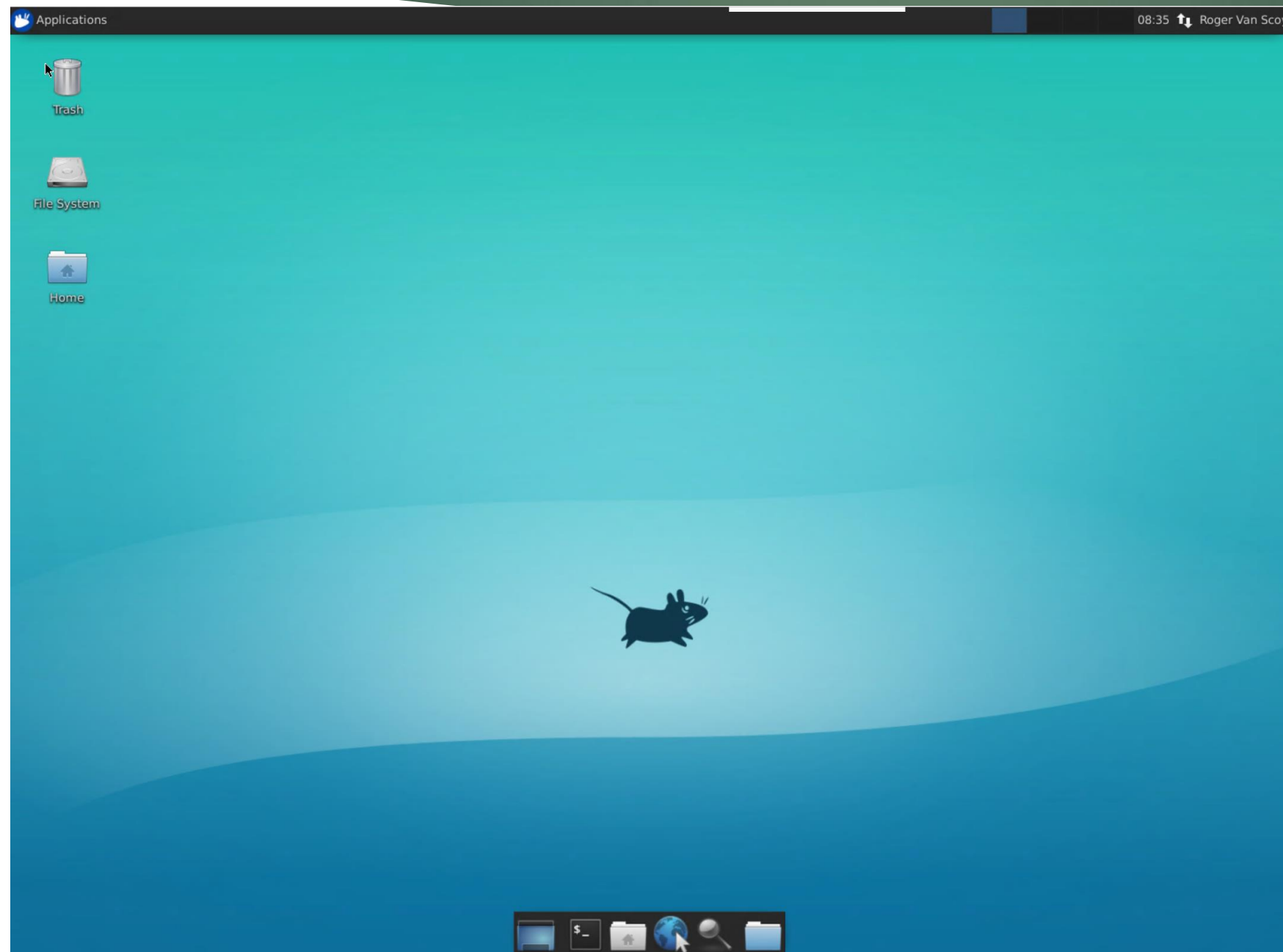Launch session
SoC Desktop
Launch

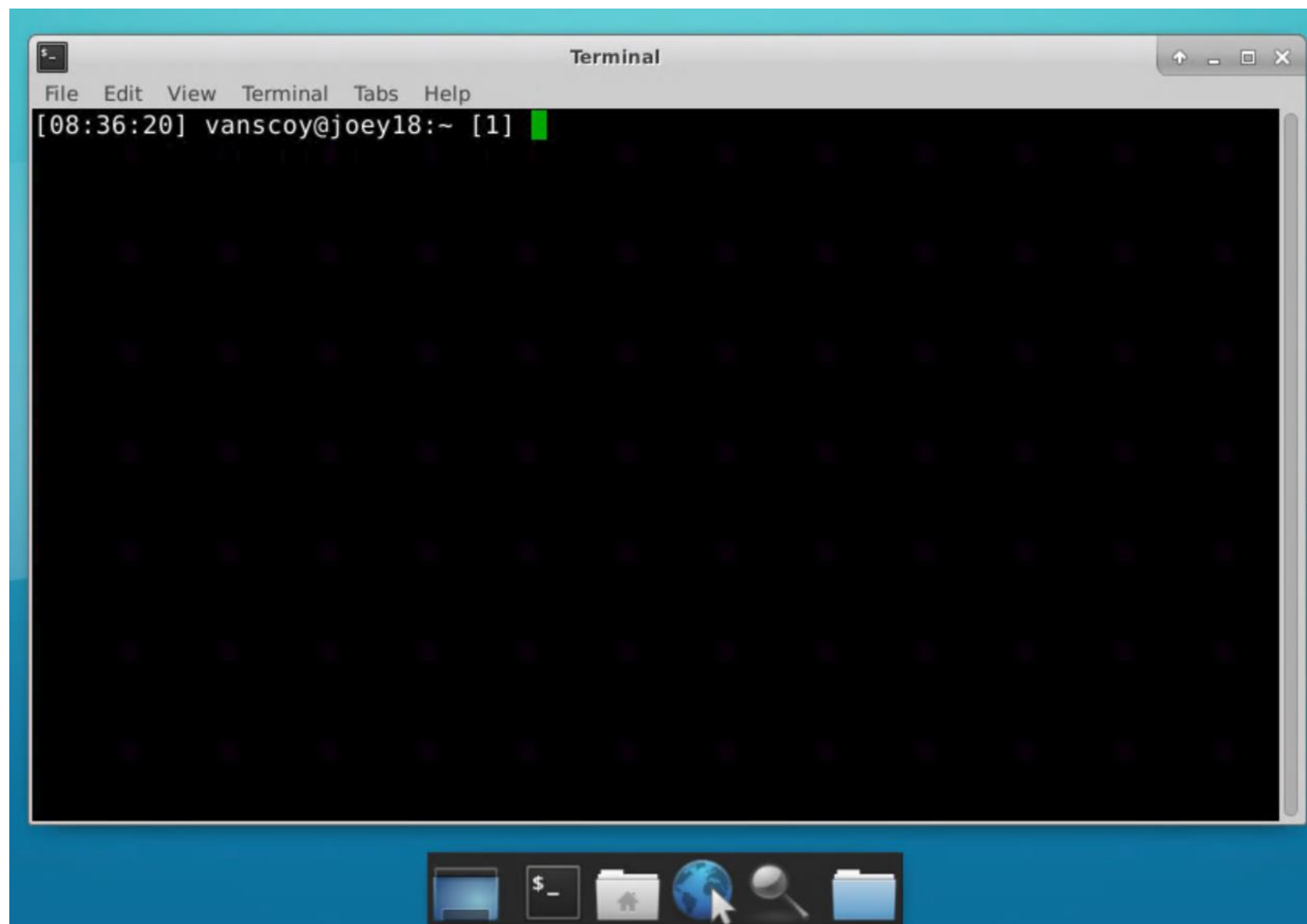# Virtual Computing-1

Access to SoC Servers via Web Browser

▶ From the virtual desktop
Open a terminal window
Maximize the window

▶ You can work in this terminal window or
ssh <ada#>.computing.clemson.edu
    where <ada#> is: ada1, or ada2, … ada17

▶ How many computers are you using at this moment?

Virtual Computing-2
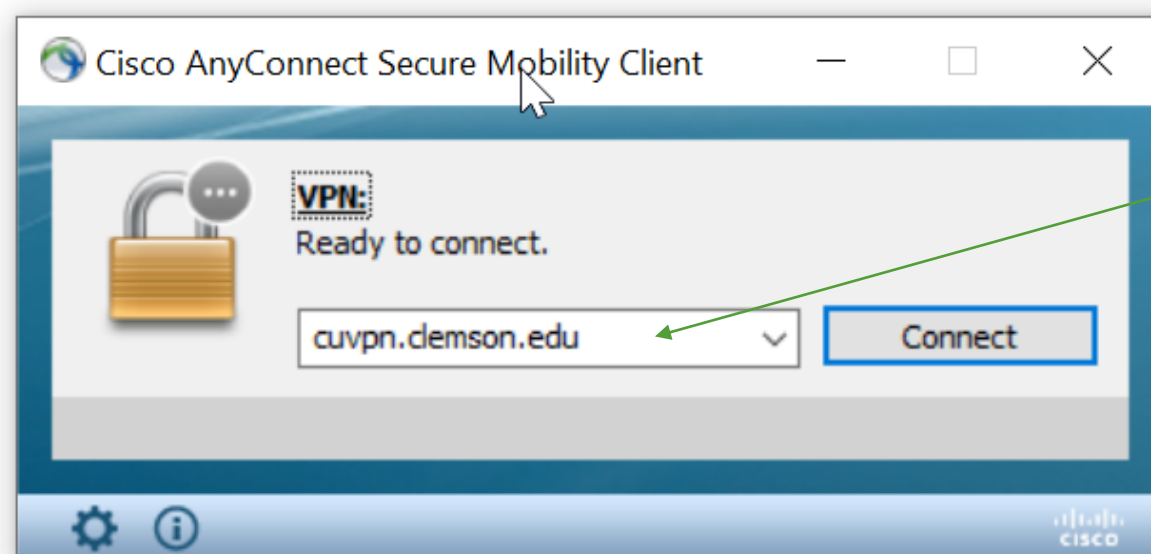
Virtual Computing-3

Getting Access When Off Campus

▶ Make a VPN connection

   ▶ https://access.computing.clemson.edu

use this for the connection name

then click connect

Getting Access When Off Campus

► Login using

　► username: your CID

　► Password: your password

　► Duo Passcode: push

► Click OK

Getting Access When Off Campus

▶ When you see

   ▶ click Accept

Cisco AnyConnect

Welcome to the Clemson Network, you are in the CUVPN group.

Accept   Disconnect
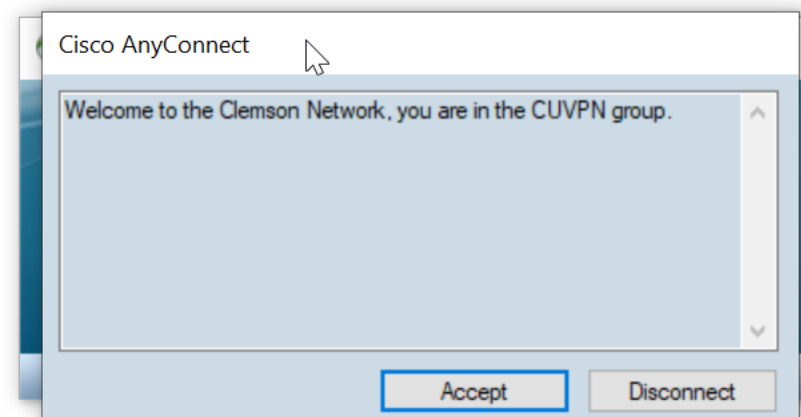
▶ Then follow the instructions for connecting via your web browser or ssh

From WinOS - 1

- Use ssh (if installed)
- Use WinSCP/Putty

From WinOS - 2

▶ If you have a WinOS machine

  ▶ Download and install WinSCP & Putty on your laptop

  ▶ https://winscp.net/eng/downloads.php

  ▶ Connect to ada1.computing.Clemson.edu

    ▶ Login with your Clemson

    ▶ ada1 ... ada17 are available

WinSCP Downloads

WinSCP Release Notification	Download PuTTY

Download latest WinSCP 5.13   2018-06-18

WinSCP 5.13 is a major application update. New features and enhancements include:

- Amazon S3 protocol support.
- SHA-256 host key fingerprints are used.
- Stalled connection attempts can be canceled promptly.
- Improvements to .NET assembly and scripting.

DOWNLOAD WINSCP 5.13.3 (9.2 MB)   LIST OF CHANGES

1,445,343 downloads to date

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vanscoy@ada1.computing.clemson.edu

```
Using username "vanscoy".
***********************************************************************
                         Welcome to the
              CLEMSON UNIVERSITY SCHOOL OF COMPUTING
                  Unauthorized use is prohibited!

                PARTIAL LIST OF PUBLIC CLIENT MACHINES
Hostnames     Location    OS            Architecture    CPU Cores    Mem
-----------------------------------------------------------------------
ada1..17      McAdams 110A Ubuntu 16.04  x86_64 i5       4 x 3.40GHz  16GB
babbage1..33  Barre B108  Ubuntu 16.04  x86_64 i7       4 x 3.60GHz  16GB
joey1..20     n/a         Ubuntu 16.04  x86_64 i7       4 x 3.40GHz  16GB
cerf1..28     McAdams 110D Ubuntu 16.04  x86_64 i5       4 x 3.40GHz  16GB
titan1..5     n/a         Ubuntu 16.04  x86_64 E5       4 x 3.00GHz  32GB
newton        n/a         Ubuntu 16.04  x86_64 Xeon     24 x 2.40GHz 96GB

* Off-campus SSH access: access.computing.clemson.edu
* General information can be found at http://www.computing.clemson.edu/help
* Questions or problems regarding Unix systems should be addressed to
  ithelp@clemson.edu or the friendly folks in 126, 129, 135, or 137
  McAdams

*********************** Last updated: 2018-08-22 ***********************
Last login: Tue Aug 14 09:31:38 2018 from 198.21.180.244
[11:48:18] vanscoy@ada1:~ [1]
```
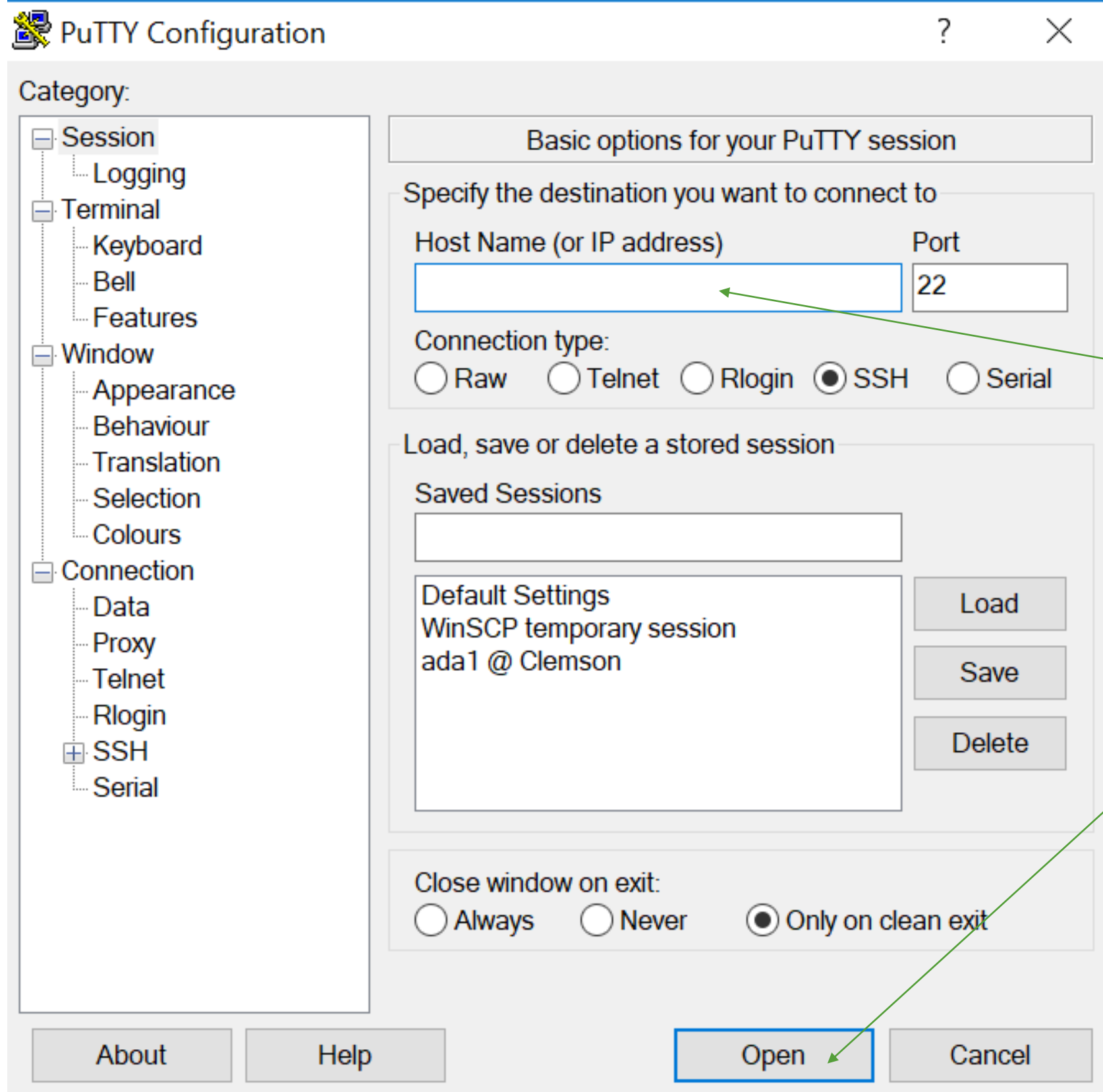
Enter the server host name here:

adaNN.computing.Clemson.edu

Then click "open"
And logon using your Clemson credentials
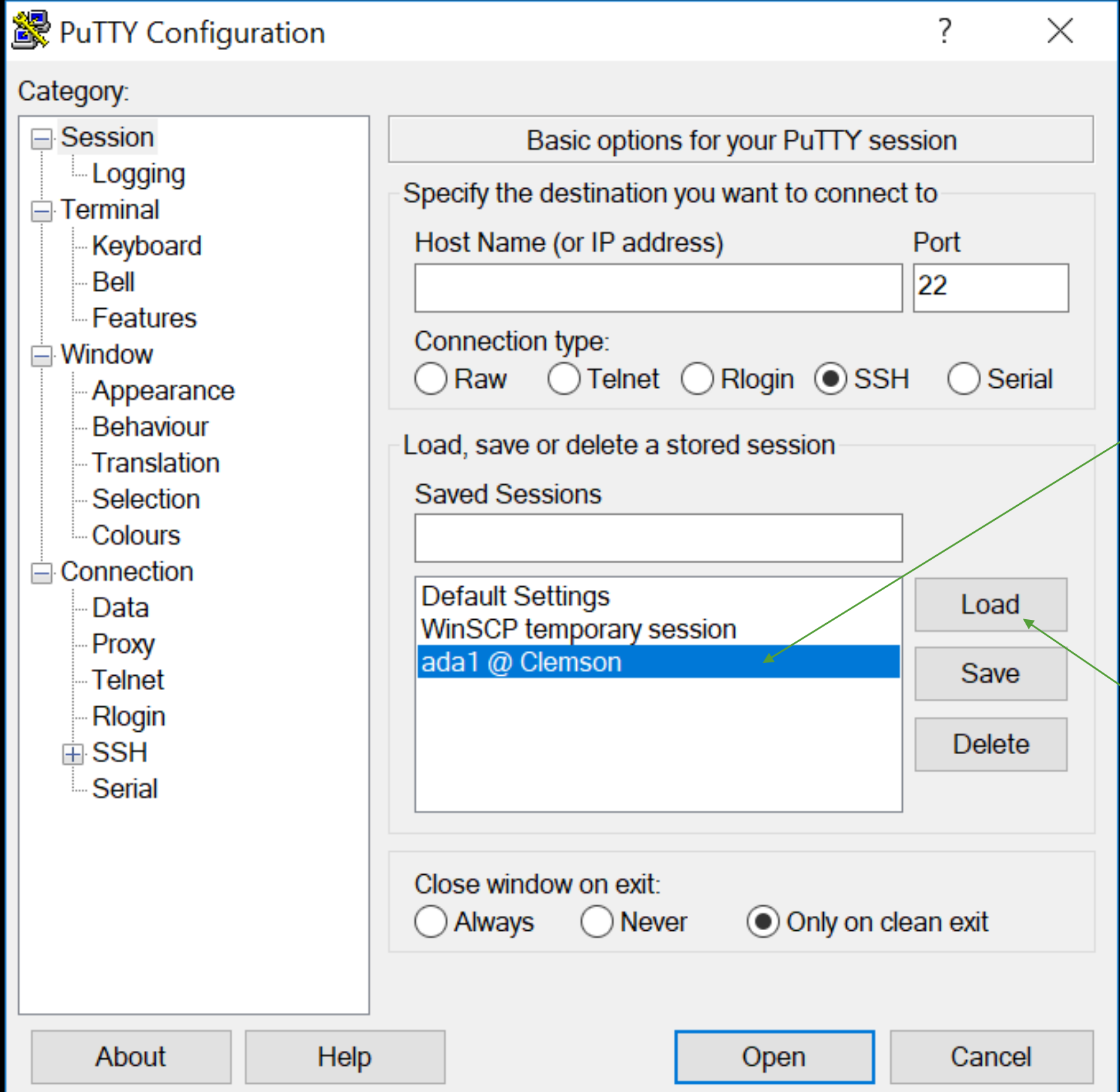
You can save a configuration

Then click "load"
And logon using your Clemson credentials

MOTD

ada1.computing.clemson.edu - PuTTY

```
********************************************************************************
                            Welcome to the
                CLEMSON UNIVERSITY SCHOOL OF COMPUTING
                    Unauthorized use is prohibited!

                PARTIAL LIST OF PUBLIC CLIENT MACHINES
  Hostnames       Location      OS             Architecture     CPU Cores      Mem
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  babbage1..33    Barre B108    Ubuntu 16.04   x86_64 i7        4 x 3.60GHz    16GB
  joey1..20       n/a           Ubuntu 16.04   x86_64 i7        4 x 3.40GHz    16GB
  cerf1..28       McAdams 110D  Ubuntu 16.04   x86_64 i5        4 x 3.40GHz    16GB
  titan1..5       n/a           Ubuntu 16.04   x86_64 E5        4 x 3.00GHz    32GB
  newton          n/a           Ubuntu 16.04   x86_64 Xeon     24 x 2.40GHz    96GB

  * Off-campus SSH access: access.cs.clemson.edu
  * General information can be found at http://www.cs.clemson.edu/help
  * Questions or problems regarding Unix systems should be addressed to
    ithelp@clemson.edu or the friendly folks in 111, 126, 135, or 137
    McAdams

************************** Last updated: 2018-07-31 **************************
Last login: Tue Aug 14 08:59:31 2018 from 198.21.180.244
[09:31:39] vanscoy@ada1:~ [1]
```
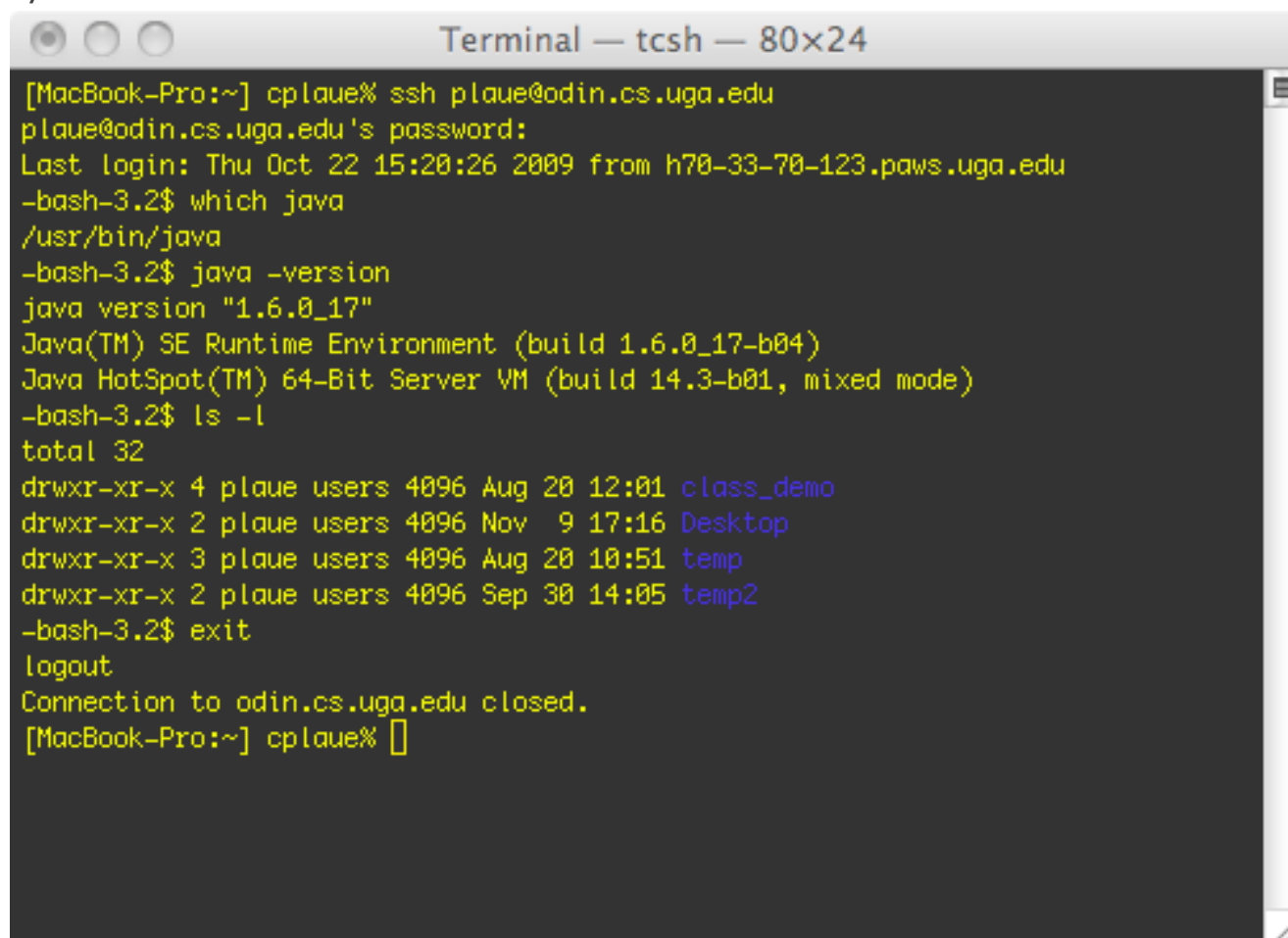
From a Mac - 1

- Finder > Applications > Utilities > Terminal
  (you can drag Terminal to the Dock for quick access)

- Then you can use the commands

  - OR

- Use SSH to connect to a Clemson computer

From a Mac - 2

- If you have a MacOS machine:
  Finder > Applications > Terminal

  - From here you can issue commands directly or from the terminal window…

  - ssh ada1.computing.Clemson.edu

    - Login with your Clemson

    - ada1 … ada17 are available

```
● ○ ○              Terminal — tcsh — 80×24
[MacBook-Pro:~] cplaue% ssh plaue@odin.cs.uga.edu
plaue@odin.cs.uga.edu's password:
Last login: Thu Oct 22 15:20:26 2009 from h70-33-70-123.paws.uga.edu
-bash-3.2$ which java
/usr/bin/java
-bash-3.2$ java -version
java version "1.6.0_17"
Java(TM) SE Runtime Environment (build 1.6.0_17-b04)
Java HotSpot(TM) 64-Bit Server VM (build 14.3-b01, mixed mode)
-bash-3.2$ ls -l
total 32
drwxr-xr-x 4 plaue users 4096 Aug 20 12:01 class_demo
drwxr-xr-x 2 plaue users 4096 Nov  9 17:16 Desktop
drwxr-xr-x 3 plaue users 4096 Aug 20 10:51 temp
drwxr-xr-x 2 plaue users 4096 Sep 30 14:05 temp2
-bash-3.2$ exit
logout
Connection to odin.cs.uga.edu closed.
[MacBook-Pro:~] cplaue% []
```