Connect to Seacat

Download Software

1. Download Xming and Xming fonts from http://sourceforge.net/projects/xming/files/?source=navbar
2. Download Putty installer (Link below Windows installer for everything except PuTTYtel)
   http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html
3. Install Xming with defaults, but do not launch yet.
4. Install Xming Fonts. Select all fonts except Cyrillic Fonts
5. Install PuTTY with default options

Configure Software

1. Start Xming
2. Windows Firewall popup - check both public and private networks
   a. If you don't get the prompt, you'll need to manually set it:
   b. Start button, Control Panel (popup)
   c. Search for "Firewall"
   d. Click "Allow a program through Windows Firewall" (popup)
e. Scroll down the software list to where Xming X Server and Xming.exe is listed
f. Check both Private and Public networks next to all Xming and Xming X Server entries

g. Close all the control panel windows you opened

3. Right-click the Xming "X" icon in the task bar near the clock
   a. If it's not visible, click the little up arrow to see more icons

b. In the option menu, make sure "Hide your root window" is checked

4. Configure PuTTY
   a. Start PuTTY (ignore the other PuTTY icons)
   b. Expand Connection, then SSH, then X11
i. Check Enable X11 forwarding
ii. Make sure MIT-Magic-Cookie-1 is checked
iii. Optional: X display location = localhost:0.0

To connect to Secat:

- Run Xming first
  i. The icon will show in the taskbar.
  ii. The main window should not appear.
  1. Run Putty
     i. Click the Secat saved session
     ii. Click Open
     iii. You can also just double-click the Secat x11 entry in the window to start the session.
- The PuTTY command prompt will appear, requesting your user ID.
a. Enter your eRaider ID and hit enter.

b. There may be a long pause as the system contacts the TTU system to verify your ID.
c. It will prompt for your password. This is your eRaider password.

- The system will then return you to the SSH command line on the server.

Using the system

1. You will no longer have the Gnome or KDE desktop, but instead will spawn windows for your applications from this command line.
2. Your environment is preconfigured for Cadence, Silvaco, and Synopsys programs on bash.
3. Helpful hints:
   a. Up arrow scrolls through your history of commands. You can save yourself lots of typing if you scroll back up to a long command you usually use.
   b. Recommended text editors:
      i. GUI - gedit
      ii. command line - nano, emacs, or vi
   a. To use the terminal and your program at the same time, run commands with an & at the end of a command. For example:
      `jsmith@seacat $ gedit ~/.bashrc &`
4. Engineering Computing Services cannot provide training for using Linux or the applications.
   a. The Seacat server runs on Red Hat 6, so training sites for CentOS and Fedora would be most accurate.
   b. You will need to be familiar with basic Linux terminal commands and file structure to navigate to the programs.
   c. There are many Linux training sites, including:
      a. TTU's Computer-Based Training system http://cbt.ttu.edu
      b. Intro to bash shell http://www.techtopia.com/index.php/Using_the_Bash_Shell_on_Red_Hat_Enterprise_Linux_6
      c. Command line introduction http://www.linfo.org/command_line_lesson_1.html
      d. List of Linux commands http://www.linfo.org/command_index.html
      e. Intro to Linux for newbies http://www.linfo.org/newbies.html
      f. Linux for Beginners http://www.linuxtopia.org/online_books/linux_for_beginners_index.html
5. Program locations:
   a. Cadence: /usr/cadence/
   b. Silvaco: /usr/silvaco/
   c. Synopsys: /usr/synopsys
   d. Help, class, and example files: /data/shared/