# CIS 90 UNIX/Linux Lab Exercise

## Lab 1: Accessing Linux Systems
## Spring 2014

**Lab 1: Getting Started**

This is the first lab assignment for CIS 90. Get ready to jump in and get some hands-on experience logging in and using a number of UNIX/Linux systems.

**Objectives**

- Learn how to use SSH to log into UNIX/Linux systems.
- Learn how to recognize the shell prompt string and enter commands.
- Learn how to log into servers behind a firewall.
- Learn how to access the VLab Pxx-Arwen VMs

**CIS 90 Systems Roadmap**
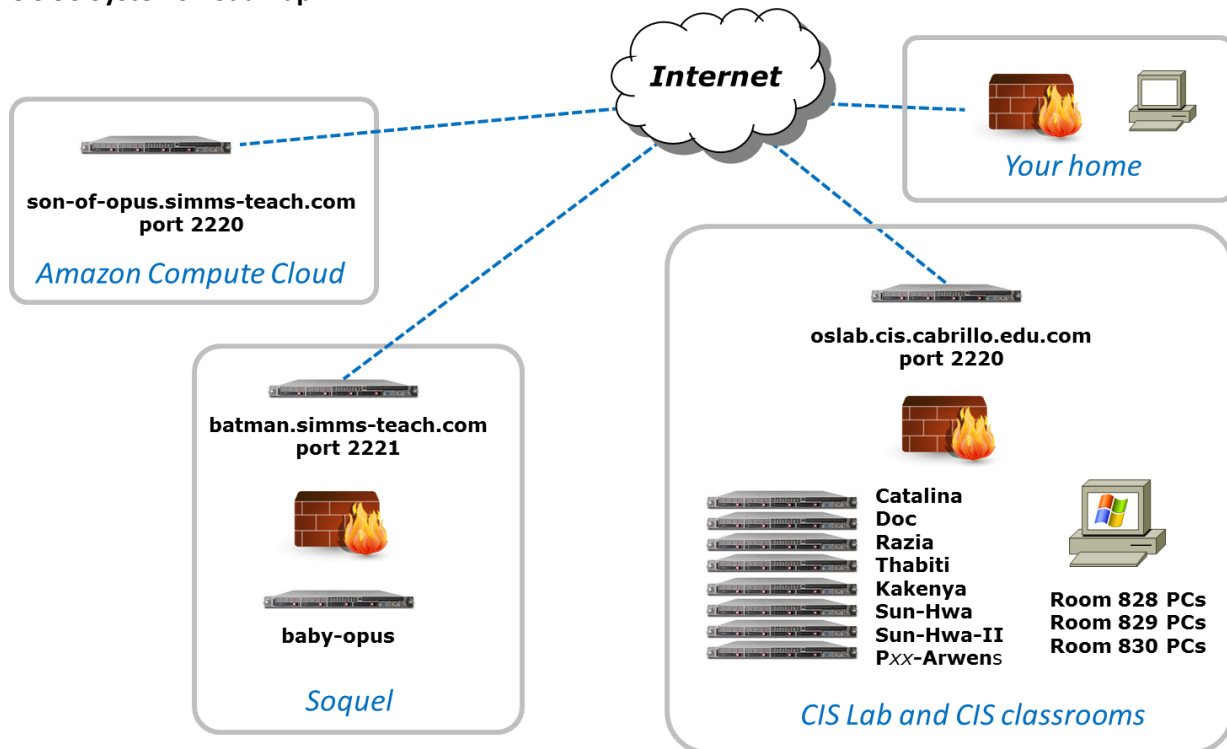
**Preparation**

Everything you need to do this lab can be found in the Lesson 1 materials on the CIS 90 website: http://simms-teach.com/cis90calendar.php.  Review carefully all Lesson 1 slides, even any we didn't cover in class.  In addition, review the two Howtos that show how to log into Opus and VLab.

Check the forum at: http://oslab.cishawks.net/forum/ for any tips and updates related to this lab.  The forum is also a good place to ask questions if you get stuck and help others.

If you would like some additional assistance come to the CIS Lab on campus where you can get help from instructors and student lab assistants: http://webhawks.org/~cislab/.

**Step 1 - Get the worksheet**

Download the Lab 1 worksheet from http://simms-teach.com/docs/cis90/lab01-sp14.txt.  To get credit for this lab you will copy and paste the worksheet into an email message, answer the questions, and then send your work to the instructor for grading.

**Step 2 - Start exploring systems**

Windows users will use Putty and MAC/Linux users will use the **ssh** command to log into Opus.  From Opus you can get to any other system using one or more **ssh** commands.  Answer each question on the worksheet.  Pay particular attention to spaces, upper and lower case with your answers. You may wish to copy & paste your answers from your login sessions into the worksheet.  With Putty, don't use Ctrl-C to do a copy. Instead use a left mouse "select".  Linux treats a Ctrl-C as an interrupt rather than a copy to the clipboard.

**Step 3 - Try a Linux desktop GUI**

Log into VLab and select your personal P*XX*-Arwen system.  To see which one is yours use: http://simms-teach.com/docs/cis90/Pod-Assignments-90-sp14.pdf. See if you can answer Q15 on the work sheet.  You will need to use the special keystrokes mentioned in Lesson 1 to get to the tty virtual console.  These consoles are very basic non-scrollable terminals with a black background.

**Step 4 - Make a post on the forum**

Go to the forum and make a post.  You could introduce yourself (NEW**TOPIC**),  post a question (NEW**TOPIC**), or reply to an existing topic (POST**REPLY**) .

**Submittal**

Email your completed Lab 1 worksheet to:  **risimms@cabrillo.edu**

Remember late work is not accepted so if you run out of time submit what you have for partial credit.

**Grading Rubric (30 points)**

3 points - for using the Lab 1 worksheet.
3 points - for emailing the completed Lab 1 worksheet as an attached TEXT file.
2 points - for each correct answer to questions Q1 through Q12.

**Extra Credit**

3 optional extra credit questions on the worksheet (1 point each).

Points for forum posts are tallied separately. Each post is worth four points up to a maximum of 20 points per quarter of the term.