# CIS 76 Linux Lab Exercise

## Lab X2 - Packet Crafting with Hping
## Fall 2016

**Lab X2 - Packet Crafting with Hping**

This lab provides more practice with the Hping3 tool.

**Warning and Permission**

## Unauthorized hacking can result in prison terms, large fines, lawsuits and being dropped from this course!

For this lab, you have authorization to hack the VMs in the associated Netlab+ pod.

**Preparation**

1) Reserve a Netlab+ pod for the maximum amount of time for this lab:
   **NDG Lab 17: Packet Crafting with Hping**
   You can always release it if you finish early.

**Part 1 – hping3**

1) Follow steps 1-8 which use hping3 and view the resulting network activity with tcpdump.
2) Use Ctrl-C to stop tcpdump.
3) Start a Wireshark on eth0.
4) Document in your lab report the following commands:
   ```
   a. hping3 -1 -c 4 192.168.68.12
   b. hping3 -1 -c 4 -V -C 13 192.168.68.12
   c. hping3 -1 -c 4 -V -T 192.168.68.12
   d. hping3 -S -c 1 -V -s 5151 -p 80 192.168.68.12
   e. hping3 -S -c 1 -V -s 5151 -p 23 192.168.68.12
   ```
   For each command, provide one line on what each option does and a Wireshark capture showing the related network traffic.

As an example you can see Benji Simms' report here:
https://simms-teach.com/docs/cis76/cis76-labX2-simben76-redacted.pdf


**Submit your work**

    1)  Email your report to: `risimms@cabrillo.edu`

Remember **late work is not accepted.** If you run out of time submit what you have
completed for partial credit.


**Grading Rubric (15 points)**

3 points for documenting each of the five commands with an explanation of the options and a
Wireshark capture.