

CIS 76 Linux Lab Exercise

Lab X1 - Reconnaissance with Nmap and Amap Fall 2016

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This lab provides more scanning practice with the Nmap and Amap tools.

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 1: Reconnaissance with Nmap & Amap

You can always release it if you finish early.

Part 1 – Nmap

- 1) Follow steps 1-26 which use nmap and view resulting network activity with Wireshark.
- 2) Document in your lab report the following:
 - a. `nmap -sT 192.168.68.12`
 - Include a screen shot of this command with the output
 - Include a screen shot of the Wireshark capture using the display filter: `tcp.port == 22`
 - b. `nmap -F 192.168.68.12`
 - Include a screen shot of this command with the output
 - Include a screen shot of the Wireshark capture using the display filter: `tcp.port == 22`
 - c. Answers to the following questions:

- What does the nmap -sT option do?
- What does the nmap -F option do?
- How many packets were generated using the -sT option?
- How many packets were generated using the -F option?
- How did the method for checking port status differ between the -sT and -F options?

Part 2 – Amap

- 1) Follow steps 1-6 which use Amap
- 2) Document in your lab report the following:
 - a. amap -A 192.168.68.12 22
 - Include a screen shot of this command with the output
 - b. amap -B 192.168.68.12 22
 - Include a screen shot of this command with the output
 - d. amap -P 192.168.68.12 22
 - Include a screen shot of this command with the output
 - c. Answers to the following questions:
 - How many packets total (against all ports) were generated using the -A option?
 - How many packets total (against all ports) were generated using the -B option?
 - Does the -P option use a full connection or half-open “stealth” scan to check port status?

As an example you can see Benji Simms’ report here:

<https://simms-teach.com/docs/cis76/cis76-labX1-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)

- 1 points for nmap -sT 192.168.68.12 screen shot
- 1 points for nmap -sT 192.168.68.12 filtered Wireshark screen shot
- 1 points for nmap -F 192.168.68.12 screen shot

1 points for nmap -F 192.168.68.12 filtered Wireshark screen shot

5 points for nmap questions 1-5

1 points for amap -A 192.168.68.12 22 screen shot

1 points for amap -B 192.168.68.12 22 screen shot

1 points for amap -P 192.168.68.12 22 screen shot

3 points for amap questions 1-3