

CSI 3140 – Laboratory 1

Exercise 1: working with DNS and DNS lookup

Question 1.1

Find the IP addresses of the domains www.whitehouse.gov, www.site.uottawa.ca and www.pastis.org. What domain is mapped to 137.122.14.100 ?

Question 1.2

Because SITE is filtering some of the traffic, this question cannot be done successfully from the lab. Feel free to try it at home

Instead of your default DNS server, use 208.67.222.222 and redo question 1.1. What happens?

Question 1.3

Ottawa's mayor can be reached at Larry.OBrien@Ottawa.ca.

a- What is the mail server in charge of this address?

b- The answer you got was likely labeled as “Non-authoritative answer”. Find the authoritative one (Because SITE is filtering some of the traffic, this question cannot be done successfully from the lab. Feel free to try it at home)

Exercise 2: working with telnet and the SMTP protocol

Question 2.1

Find the basic commands of the SMTP protocol (enough to send a text email)

Question 2.2

Take your @site.uottawa.ca email address (or @uottawa.ca address). Find the IP address of the mail server dealing with that address

Question 2.3

Because SITE is filtering some of the traffic, this question cannot be done successfully from the lab. Feel free to try it at home

Using the *telnet* command, send yourself an email from some other address that you own.

Question 2.4

Check you email to see that you have received the message

Question 2.5

Find in this email where you can see that it is a “fake”

Exercise 3: working with telnet and the HTTP protocol**Question 3.1**

Using the *telnet* command, get the page <http://www.google.com>

Question 3.2

Can you fetch the page using only IP address? Why?