



Lab 2
Network Commands

Objective:

1. To use basic Command Line Interface (CLI) commands and syntax to gather information about a network.

Students will utilize basic command-line syntax to gather information about their network. This lab is intended to show that even basic CLI commands can yield valuable network information for a technician or to a potential hacker.

Name : _____

Section: _____

Name : _____

Section: _____

Date: _____



Checked By: _____

Mark

===== **LAB ACTIVITIES** =====

Run Command Line Editor. Write the proper command to get the following information and record the information required.

- 1. Single command to get the following information

Command: _____

ipv4 address _____

subnet mask address _____

first dns server address _____

dhcp server address _____

- 2. Determine IP address for

a) www.google.com : _____ command : _____

b) www.utm.my: _____ command: _____

c) www.newyorknewyork.com: _____ command : _____

- 3. a) Record the first 3 nodes, from your computer to www.utm.my (use the IP that you get from question 2)

Command: _____

Node 1: _____

Node 2: _____

Node 3: _____

- b) Repeat the same command in 3a, observe whether the path is still the same? Explain.

4. a) Write a command to test whether your network card is working properly or not.

command: _____

- b) Ping www.google.com with timeout of 10ms.

command: _____

success / fail ; circle the result

- d) If you cannot get an expected result, what need to be change to ping command?

command: _____

success / fail ; circle the result

- e) i) Get the IP for www.yahoo.com

command: _____

IP: _____

- ii) Ping using the IP and do the same but using the url.

Command using IP: _____, Average RTT: _____

Command using url : _____, Average RTT: _____

Which one is faster and why?

5. What is the hostname of your computer

command: _____

hostname: _____

6. A web site may have several web servers and so several IP addresses for the same domain name. How many IP addresses does www.microsoft.com have?

command: _____

hostname: _____