**Lab 1**: **Network Analysis Name:**

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**Objectives:**

In this lab we will be studying the Windows and Linux environments. We will use commands to retrieve vital information about the computers network and network devices.

Please begin by saving this file somewhere locally like the hard drive or ideally a USB stick with your name appended to the end of it, example: LAB1\_JAMESDUPUIS

**Windows:**

Begin by opening a command prompt and typing in our command to determine our network details:

1. What was the command? ( Review the slides if unsure )

Ipconfig -all

1. What is listed as the IPv4 address of your machine? (NOTE: NOT THE VIRTUALBOX IP)

10.105.11.49 (Ethernet 3)

1. What is listed as the subnet mask of your machine?

255.255.255.0

1. What class of IP is being used on this machine?

It is a set for Class A

1. What is listed as the IPv4 address of your machine?

10.105.11.49 (Gateway address is 10.105.11.2)

1. What is listed as the domain name?

SL.On.Ca

1. What is listed as the IPv4 address of your machine?

10.105.11.2 (MAC address: 30-9C-23-7C-B1-11)

1. Use the ping command to **ping** google.ca. What is the ip address of google.ca?

172.217.164.195

1. What is the TTL of pinging google.ca?

TTL = 52ms

1. How many packets were sent?

4 packets sent

1. How many packets were received?

4 packets received

1. How many bytes were sent?

128 bytes sent

**LINUX**:

Load up the VMWare application and boot up the Game Dev Linux Virtual Machine (Ubuntu).

**The password is GA2019ME.**

Open up the terminal and type in the command to see the network details.

You may need to install the net tools. Follow the instructions on the terminal to install.

If you are you too quick you may run into an error installing, give it a few minutes to finish first installs and the process will unlock on its own.

Once you have installed the tools and got the command functioning answer the following:

1. What is listed as the IPv4 address of your virtual machine (inet)?

192.168.233.129

1. What is listed as the subnet mask of your virtual machine (netmask)?

255.255.255.0

1. What is listed as the broadcast address of your virtual machine?

192.168.233.255

1. What is listed as MTU for the virtual machine?

Mtu is 1500 bytes

1. What is listed as the loopback ip address of your virtual machine?

127.0.0.1