Gabriel Garza

INFS 3338 02I

Nan Xiao

10/11/2022

Homework 2

1. (7 points)

Use ipconfig/all command to find out how many NICs your computer has and what their MAC addresses are. What are the names of manufacturer of your NICs? Please include a screenshot in your answer. (Hints: you can look up the manufacturers using the following webpage <http://standards.ieee.org/develop/regauth/oui/oui.txt>)

My computer currently has 9 NICs.

Text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

Manufacturers:

COMPAL INFORMATION (KUNSHAN) CO.,LTD.

My MAC Address: 08-97-98-A8-32-3E

CAMTEC ELECTRONICS LTD.

My MAC Address: 00-FF-49-F8-56-F7

CAMTEC ELECTRONICS LTD.

My MAC Address: 00-FF-C4-AD-CA-6C

Intel Corporate

My Mac Address: A8-7E-EA-96-BC-3F

Intel Corporate

My MAC Address: AA-7E-EA-96-BC-3E

VMWare, Inc.

My Mac Address: 00-50-56-C0-00-01

VMware, Inc.

My Mac Address: 00-50-56-C0-00-08

Fortinet, Inc.

My Mac Address: 00-09-0F-FE-00-01

Intel Corporate

My Mac Address: A8-7E-EA-96-BC-3E

2. (8 points) Following the step 1-4 below to examine an Ethernet Frame and answering questions:

1. Open the Wireshark and start data capturing.
2. Go to [www.utrgv.edu](http://www.utrgv.edu) . After the webpage is loaded, stop the capturing.
3. Apply a HTTP filter to only display http protocol related packets.
4. Find the first “GET” request, and then display the header of the Ethernet Frame that carries this “GET” request. Using this Ethernet Frame, please answer the following questions:

1. Paste a screenshot of the Wireshark results.

Graphical user interface, text, application, Word

Description automatically generated

Graphical user interface, text, email

Description automatically generated

1. What is the value of the Ethernet source address? What device has this as its MAC address? How is it related to the address(es) you found in Question 1?

The Ethernet Source Address is FC-49-2D-A8-47-29. The device was made by Amazon Technologies Inc. It is related because the first 6 digits specify the manufacturer that made the device.

1. What is the Ethernet destination address?

The Ethernet destination address is A8-7E-EA-96-BC-3E. The device used here would be made by Intel Corporate.

1. What is the value for the Frame type field?

The value of the frame type field is IPv4 (0x0800)