

ELEC-4200

Digital System Design

FROM: Jacob Howard

TO: Dr. Yihan Li & Chao Yang,

DUE DATE: 8/26/21

Lab 1

Introduction

This Lab was an introduction to Wireshark. Wireshark is an application that we will use through out the course to analyze packets and has other features.

3 Different Protocols

We were asked to list 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above. *Figure 1* shows us the 3 different protocols (HTTP, TCP, UDP).

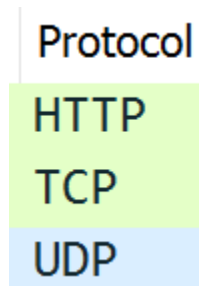


Figure 1

Retreaving HTTP GET wireshark website

We were asked how long it took from when the HTTP GET message was sent until the HTTP OK reply was received from <http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html>? It took 0.313022 seconds, as shown in *Figure 2* below

Time	Source	Destination	Protocol	Length	Info
21:28:57.039778	192.168.1.5	255.255.255.255	UDP	230	49163 → 6667 Len=1
21:28:57.352800	192.168.1.10	128.119.245.12	HTTP	642	GET /wireshark-lat

Figure 2

Internet Addresses

Lastly, we were asked what the Internet address of the `gaia.cs.umass.edu` and what is the Internet address of your computer? Looks as if the websites Internet Address is `192.168.1.10` and my PC's address is `128.119.245.12`.

Source	Destination
<code>192.168.1.10</code>	<code>128.119.245.12</code>

Figure 3