

Assignment on Wireshark

Complete the following task using Wireshark:

- a) Start your web browser and start Wireshark and capture packets. Browse some websites and list 10 different protocols that appear in the protocol column in the unfiltered packet-listing window.
- b) Filter the packets having **DNS** in protocol field, select a row and answer the following questions.
 - i. Which port is used as source port?
 - ii. What is the size of IPv4 header length?
- c) Browse **iebbd.org** and answer the following questions.
 - i. What is the IP address of **iebbd.org**.
 - ii. How long did it take from when the first **HTTP GET** message was sent until the **HTTP OK** reply was received? In case, **HTTP OK** is not received then check for last **HTTP Continuation**.
 - iii. What is the frame length of first **HTTP GET** message.
 - iv. Now, visit the login page and enter your ID in the Member ID field and your name in password field. Then hit the "login" button. Find out the data that was entered in the form using Wireshark. (include snapshot of the login form with data filled in)
 - v. Find out the port number on which the HTTP requests are made.
- d) Start your torrent client application (qBittorrent, uTorrent, etc.). Set incoming port address to last five digits of your student ID from the preference/option. Download any content from any torrent site if you just installed the torrent client. Now filter the packets transmitted using the torrent client.

Instructions:

1. Add the snapshot of your output for every task. (Snipping Tool shortcut Windows+Shift+S)
2. Stop previous capture before performing a capture for new task.
3. Before pressing the capture button, enter the URL in browsers address bar (don't press ENTER yet), start capturing in Wireshark and then immediately press ENTER in the browsers address bar. Follow the same process for submitting any form.
4. Rename the file(s) with your StudentID_Group and then submit.
5. Submit as soon as possible before the deadline.

*****Any kind of plagiarism will strictly be penalized.*****