**CPSC 6157 Network & Cloud Management**

**Spring 2025**

**Hands-on Exercise 1 (Wireshark)**

**Due: 11:30 PM Monday Jan. 13**

**Part I (60%). In this hands-on exercise, you will learn how to capture and analyze network traffic using Wireshark. Upload all screenshots to CougarView.**

1. Download and install Wireshark on your own computer using the following link:

<https://www.wireshark.org/download.html>

1. Take a **screenshot** to show that Wireshark is working on your machine. Copy & paste this screenshot in this Word document below.
2. Watch the YouTube video “Wireshark Tutorial for Beginners” on CougarView.
3. Read the instructions in the attached file “Capture network traffic using Wireshark.docx” about how to use Wireshark to capture network packets
4. Download the PCAP file “**exercise.pcap**” included in the ZIP file “Wireshark\_PCAPs.zip” from CougarView attached with this exercise. There is a JPG image file contained in this PCAP.
5. Recover the JPG image from the PCAP “**exercise.pcap**” by following Step 5 (How to recover a file for captured FTP data packets?) described in the attached file “Capture network traffic using Wireshark.docx”.
6. Copy & paste the JPG image in this Word document below.

**Part II (40%). Complete Exercise 1 Quiz on CougarView (It covers Part I - Wireshark of this exercise, and the PPT slides “Layering in Computer Networking.pptx” under Week 1). You will have 2 hours to answer 10 questions and ONLY one attempt is allowed for all post-lab quizzes. To answer the questions about how to use the display filter in Wireshark, you may refer to the online tutorial through the link below**

<https://www.ictshore.com/wireshark/wireshark-filter-tutorial/>

Reid Roberts

Screenshot of Wireshark successfully running on my laptop:A screenshot of a computer

Description automatically generated

TCP rows from the Statistics section:

A screenshot of a computer

Description automatically generated

Result after saving the 57kB as a JPG:

A long shot of a sea creature

Description automatically generated