

HOMEWORK 1 (WIRESHARK)

Read the **Wireshark_Intro_v7.0.pdf** carefully. Pay attention to the following concepts covered in the introduction.

CONCEPTS

- What is **Wireshark**?
- What is a **packet sniffer**?
- How does Wireshark work?
- What is the **Capture Filter**?
- What is the **Display Filter**?
- What is **protocol encapsulation**?

INITIAL STEPS

- Download a copy of **VirtualBox**.
- Download a copy of **CSC361-Mininet-VM**.
- Open your `csc361-vm.ova` file in VirtualBox; it will create a Virtual Machine folder with the `CSC361-VM.vbox` file.
- Start your `CSC361-VM`. **username**:csc361 **password**:csc361
- Open Firefox and enter the URL <http://web.uvic.ca/~mcheng/361/hello.html>.
- If it works then your `CSC361-VM` is installed correctly.

START WIRESHARK

- Start CSC361-VM.
- Start Wireshark with **Capture Filter** set to `host web.uvic.ca`. This is to avoid capturing all network traffic.
- Start capture packets from `eth0` network interface, which is your default NAT interface to the Internet.
- Open Firefox and enter the URL <http://web.uvic.ca/~mcheng/361/hello.html>.
- You should see some TCP and HTTP packets being captured.

- If it works then your network and Wireshark are set up properly.
- Now, you can close Firefox and Wireshark.

WHAT TO SUBMIT

Answer the questions in the file **questions.md** using your favorite text editor (e.g., Atom, Sublime Text, etc.). Attach your modified version in your submission box in Connex.