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| * This is an individual assignment, and worth 20 points. * The due date is 2:30 (Sec 01) / 5:30 (Sec 76) on Friday, September 18. * Follow the naming convention. * You should not scan any live servers using Nmap or send malicious packets using hping3. If caught, you may be expelled from school (not a joke!). |

# Lab 3: Packet Analysis (Part 2)

## Task 1. Identifying the IP addresses

A screenshot of a computer

Description automatically generated

A screenshot of a cell phone

Description automatically generated

## Task 2. Performing a Ping Sweeping

* A screenshot of a computer screen

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## Task 3. Performing a Port Scanning

A screenshot of a cell phone

Description automatically generated

## Task 4. Analyzing FTP Signatures

1. Identify the TCP packets used for the initial three-way handshake for the connection to the ftp server. Take a screenshot of those TCP packets. Those packets are placed right before the first ftp packet. A screenshot of a cell phone screen with text

   Description automatically generated
2. Identify the TCP stream used for the authentication of the client to the FTP server. Take a screenshot of the TCP stream. A screenshot of a social media post

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3. Identify the first and last FTP-DATA packets used for the uploading of the text file. Take a screenshot for each (two required). A screenshot of a cell phone

   Description automatically generatedA screenshot of a cell phone

   Description automatically generated
4. Discuss security implications of this transfer.

You can put any file on another person’s computer if you have access to their credentials.

## Task 5. SYN Flooding Attack

1. Report your Wireshark capture in a screenshot. Show only SYN packets.

A screen shot of a computer

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