Assignment 2

User Guide

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Purpose

This assignment demonstrates capturing network packets from networks using Python and Scapy, including header parsing, and displaying the information of the result of parsing.

Installing

Obtaining

Git clone: https://github.com/RichardOhata/Networking-assignment-2
Alternatively, provided in submission, source directory, where Python files are located

Building

cd ./Networking-assignment-2/

Running

./Networking-assignment-2/main.py

Environment Variables

No environment variables are required for this program.

Configuration

All configuration is done via command line arguments.

Command Line Arguments

The following command can be used to run the program ex:
```sudo python3 main.py -i any -c 1 -f <protocol>```

Variable	Purpose
-i	Specifies which network interface to capture packets on
-f	Filter string to restrict which packets are captured
-c	Total number of packets to capture before stopping
```

Examples

```sudo python3 main.py -i any -c 1 -f arp```

```sudo python3 main.py -i any -c 10 -f udp```

```sudo python3 main.py -i eth0 -c 4 -f tcp```
```