COMP 7003

Assignment 2

Report

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# Purpose

This program captures network packets using **Scapy** based on user-defined filters (ARP, IPv4, TCP, UDP) and parses the relevant headers manually without using Scapy’s built-in functions for field extraction.

# Requirements

|  |  |
| --- | --- |
| **Task** | **Status** |
| Captured and analyzed network packets using Scapy | Fully implemented |
| Captured packets based on user-defined BPF filters and manually parsed the hex data of the captured packets. | Fully implemented |
| Processed and displayed all relevant fields for ARP, IPv4,  TCP, and UDP packets. | Fully implemented |
| Did not use Scapy's built-in functions to extract packet details. | Fully implemented |

# Platform

Tested on Windows

# Language

Python 3

# Documents

Other documents included:

* Design
* Testing
* User Guide