

Assignment 2

Report

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Purpose	3
Requirements	3
Platforms	3
Language	3
Documents	3

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.

Requirements

Task	Status
Support Protocols (Ethernet, IPv4, IPv6, ICMP, ICMPv6, TCP, UDP, and DNS)	Fully Implemented
Implement functionality to produce a hex dump of each packets raw data	Fully Implemented
Extract/Parse Fields from raw data (ex. source/destination, MAC, IP addresses)	Fully Implemented
Format Output to match style and clarity of provided screenshots. Maintain consistent & organized formatting	Fully Implemented
Code Quality, write clean commented and modular code	Fully Implemented
Collect and analyze multiple packets from each support protocol	Fully Implemented

Platforms

Code has been tested on Manjaro

Language

- Python 3.11
- Scapy

Documents

- [Design](#)
- [Testing](#)
- [User Guide](#)