

# **Assignment 2**

## Report

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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.

## 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](#)