COMP 7003 Assignment 2 Report

Shayan Zahedanaraki A01277365 Feb 2th, 2025

Purpose	3
Requirements	3
Platforms	3
Language	3
Documents	3

Purpose

This program grabs a specified number of packets from a specified from all global network interfaces, or a specified network interface and displays their contents in both hex form and decimal format with possible additional formatting to add dots or colons for octets.

Requirements

Task	Status
Support Ethernet, IPv4, ICMP, TCP, UDP, and DNS	Fully implemented
produce a hex dump of each packet's raw data.	Fully implemented
parse and display relevant fields	Fully implemented
Collect and analyze multiple packets from each supported protocol to verify that your program works correctly	Fully implemented

Platforms

dc_shell has been tested on:

- macOS 15
- Arch Linux

Language

• Python 3.13

Documents

- Design
- Testing
- User Guide