COMP 7005

Assignment 3

Report

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# Purpose

This project implements a TCP SYN-based port scanner that detects the status of specified ports on a target machine. It sends SYN packets to analyze network accessibility and provides insights into open, closed, and filtered ports.

# Requirements

|  |  |
| --- | --- |
| **Task** | **Status** |
| Program scans specified port range on a target IP | Fully implemented |
| Handles open, closed, and filtered port responses | Fully implemented |
| Command-line arguments for target IP, port range, and delay | Fully implemented |
| Provides error handling and exception management | Implemented to best of my knowledge, could be lacking in areas I overlooked |

# Platform

Tested on Fedora Linux. Requires **Python 3.10+** and **Scapy**.

# Language

Python 3

# Documents

Other documents included:

* Design
* Testing
* User Guide