COMP 7005
Assignment 2

Report

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Purpose

- Build a basic port scanner that mimics the behaviour of hping3 using scapy. This scanning technique is known as a TCP SYN scan and is commonly used because it provides basic information about the target's services without fully opening a TCP connection.

Requirements

tasks	status
Scapy must be used to craft the TCP packets and send them to the target.	Fully implemented
Handle network errors gracefully, including unreachable hosts and invalid IP addresses.	Fully implemented
Ensure the command-line interface provides meaningful feedback for incorrect inputs.	Fully implemented
Create an optional delay. Convert milliseconds to seconds to manage the delay effectively between port scans.	Fully implemented
The scanner should check all ports from 1 to 65535 if no range is provided.	Fully implemented

Platforms

- Arch
- Ubuntu
- Fedora

Languages

- python

Documents

- Design
- Testing
- [User Guide](User%20Guide)
- Report