A close up of a logo

Description automatically generated

Major Group Project

Do-Something

A collection of exploits contained in a simple command line tool

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# Declaration

I hereby certify that this material, which I now submit for assessment on the programme of study leading to the award of Degree of **B.Sc. in Computing in Digital Forensics and Cyber Security** in the Technological University Dublin, is entirely my own work except where otherwise stated, and has not been submitted for assessment for an academic purpose at this or any other academic institution other than in partial fulfilment of the requirements of that stated above.

Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dated: \_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

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# Abstract

This project is designed to be a collection of exploits to aid in a Capture the Flag (CTF) competition or at the start of a Penetration Test (Pen Test). The problem to be solved was how to create a collection of exploits in a tool that is easy to use for both beginners and experts, and also allows for customisation of the tool and. In this report, a description is presented of the specification and analysis of the problem, a review of relevant research conducted, and the life cycle of the tool that was developed to solve the issue.

Key features of the developed tool, named “Do Something”, its development in an interpreted high-level programming language called ‘Python’ and an interpreted scripting language called Batch, and the evaluation of the tool from a HCI (Human Computer Interaction) perspective.

The result is a simple, but powerful tool for the use of exploitation of a target system, that is easy to use whilst giving plenty of room for customisation of the tools given.

# Chapter 1: Introduction

## Research Question

## 1.2 Objectives and Goals

# Chapter 2: Literature Review

## 2.1 Overview of sources consulted

## 2.2 Review of sources

## 2.3 Conclusions of review

# Chapter 3: Method

## 3.1 Overview of the method

## 3.2 Stage 1: Review of existing work

## 3.3 Stage 2: Specification of Requirements

# Chapter 4: System Requirements and Specification

## 4.1 HEADING NEEDED

# Chapter 5: Tool Design

## 5.1 Tools Created

Network Scanner

Packet sniffer

MAC Changer

ARP Spoofer

# Chapter 6: Implementation of Tool

# Chapter 7: Testing and Evaluation

# Chapter 8: Conclusions

# Appendix A: Project Planning

# Appendix B: List of Programs

## B.1 Summary of included programs listed

## B.2

## B.3