

ISEC 2025 Assignment 3, Vulnerabilities and Exploits

Wireless Password Cracking with Airedddon

Issued Date: March 4, 2024

Due date (on or before): TBA

Preamble

The purpose of this assignment is to practice using airedddon to crack a wireless password.

NOTE: A video demonstrating this technique is included on a page that has been added to your course shell near the top of your Content/References section under the heading Wireless Hacking Tutorial. Review this page and watch this video first before proceeding.

You will need your kali and another computer with wireless (anyone's laptop will do) and a phone that can setup a hotspot. If you don't have access to another laptop, consider doing this with a classmate. Just make sure that you each do your own assignment.

Requirements

For this assignment you will need:

Step 1: Set up a wireless hotspot on a phone with a weak password (i.e. 12345)

Step 2: Connect a workstation to this wireless hotspot and keep it connected.

Step 3. Setup a machine running Kali with a wireless card set to monitor mode. Cards will be available in your lab. Please return you wireless card at the end of class or if you need to keep it then approach your instructor.

Step 4: Run airedddon and scan for available networks. Identify the network hotspot that you have created.

Step 5: Capture the wireless handshake to a file.

Step 6: Use airedddon against this file to discover the password. (You will need a password list file)

Step 7: Test by logging into the wireless hotspot with the cracked password.

Optional: Airedddon is a powerful framework. You may wish to experiment with other attacks such as Evil Twin.

Submission Guidelines

Evaluation of this assignment will be pass/fail and will take the form of a submitted document containing a separate title page and a page containing a screen shot showing the captured password. Accommodations will be made to marks if your really can't do this but may require a demo to the instructor to see how much you did accomplish.

The assignment is to be uploaded to the Brightspace shell on or before the due date. Your document is to be of professional quality including layout, spelling, grammar and overall appearance. Create a

separate title page containing the **course code** (ISEC), **course number** (2025), **assignment number** (3), **assignment title** ("Wireless Password Cracking with Airedaddon") and **your name**.

Your document filename MUST be of the format **YOURLASTNAME_YOURFIRSTNAME_ISEC2025_AS3**.

Rubric

This assignment is worth **25%** of your final mark and it is scored out of 40 points.