Cairo University
Faculty of Computers and Artificial Intelligence
Department of Information Technology
Academic Year 2026-2027

Ethical Hacking (SLB451)

Reconnaissance Assignment
Due Friday, November 6, 2026, at 11:59 PM

- **Assignment Rules:**
  - The assignment is for **individuals**.
  - Read carefully and follow the instructions stated.
  - You will deliver a **PDF document** file with a maximum of **10 pages**.
  - Name the document file with the following format: **StudentID_Ass#1.**

Open-source intelligence (OSINT) is the process of legally gathering information about an individual or organization from free, public sources. In our course, we covered some tools for obtaining information about targets.

This assignment is divided into **two parts**. In first part, you will use two OSINT tools, namely **subfinder and OSRFramework**, search and learn how to use them. Second part will be on Tryhackme.

In your answer document, write the **question number,** the **commands** that you used, and take **screenshots** of the output and paste them into the file.

❖ Part 1

Answer the following questions to find out more about **the target domain codecademy.com and a person named "Daniel Bourke".**

1. Write a command to get IP address of the domain using dig tool.
2. Write a command to get DNS servers of the domain using dig tool.
3. Write a command to get subdomains for the above domain using subfinder tool.
4. Write a command to get subdomains for the same domain but with the harvester tool and use Bing and Yahoo search engines.
5. Search about tool osrframework, write the function of tools domainfy, usufy, and mailfy.
6. Write a command using osrframework and domainfy option to get the IP of the domain.
7. If we find out that the name of the owner of the site is the name above, we want to know the accounts registered with this name as their username. Write a command using osrframework and usufy option to get accounts related to this name.
8. Use Maltego tool to draw a graph of the information you get as follows:
   - Add a person entity with the name "Daniel Bourke".
   - Add a domain entity with the above domain.
   - Link them and name the connection as the website owner
   - Use transform to get the DNS – ns name from the domain entity
   - In DNS entities resulting from the above point, use transform to get IP for each DNS server
   - Now export the graph as an image and paste it into the answer document file.

❖ Part 2

Solve the TryHackMe room called FFUF. You must take **at least 6 screenshots** of the commands you enter and final screenshots for completing the room.