

# Information Security COMP 421

## Fall 2024 Section B

### Assignment 3 Description

**Problem Statement:** In this assignment, you are required to demonstrate the use of Nmap, Telnet, and Hydra tools. For this purpose, you will do the following sequence of tasks / steps.

- 1) Find services /open ports running on any target machine, e.g. Metasploitable 3 using **Nmap**.
- 2) Choose any one service for interaction / access using **Telnet**.
- 3) Conduct a brute-force attack on the chosen service using **Hydra** to demonstrate that weak credentials are prone to password attacks.

#### Submission requirements and deadline

- You should submit the assignment 3 at your Moodle course page as a zip folder under Week 14.
- The folder should include a file containing all the commands used to do the required tasks, and the screenshots of your screen to proof that you got the valid results after executing the command.
- This is an individual assignment. Therefore, you are not allowed to do work in the groups.
- The deadline for the **assignment 1** is **Saturday 11<sup>th</sup> January, 2025**.
- The **total marks** for this assignment are **fifteen (15)**.

#### Grading Criteria

- Screenshot to show all the available services / open ports on your target machine: 2 marks.
- Screenshots of your interaction / access of your chosen service: 2 marks.
- Screenshot of successful brute-force / password attack using Hydra: 2 marks.
- List of commands used to conduct the attack: 9 marks

**Note:** Any submission after the deadline will be graded with “0”.