

## *SE507 $\mu$ Hacking Password Hashes with Rainbow Tables*

### Mission 2: John the Ripper

This assessment evaluates the following competencies:

- *CS007 – Understand why it is important to store passwords carefully*
- *CS210 – Understand how passwords can be stored securely in databases*
- *CS207 – Write an application that stores passwords securely*
- *CS901 – Understand how passwords database can be attacked*

For this mission, you have to write a program that produces a password file, that is, it should store several (identifier, password) pairs in a text file (one per line). Use the LM Hash algorithm to produce the hashed passwords. Then, you should use John the Ripper to attack this password file.

You can find the tool and instructions about how to install them at the following address: <https://www.openwall.com/john/pro>. To succeed the mission, you have to show that you are able to crack your own password database (choose weak passwords, not to wait for hours or days...).