INFOTC 3001 - Advanced Cyber Security
Laboratory # 5 - Password Attack 2

I. Objectives

1. Execute Brute Force attack & Dictionary attack by using John the Ripper tool.
2. Understand the importance of Salt and Pepper to strength hashes.

II. Material Required

Kali Linux.

III. Activity

1. Go through the BruteForce_and_DictionaryAttack.pdf and Rainbow_Tables_Salt_and_Pepper.pdf before to start the laboratory.
2. Create three user accounts and assign weak and medium passwords.

IV. Review Questions

1. Use *John the Ripper* tool to crack the passwords for the three different user accounts you have created by using the three different methods: single, wordlist and incremental. Explain your findings and include screenshots.
2. Inquire about tools to brute force Microsoft Windows systems. Write a report with technical information i.e. name of the tool, required steps for the attack, Microsoft Windows version affected, etc.
3. Using `mkpasswd` tool generate the same hash for one of your user accounts. Include screenshots to demonstrate you succeed.
4. What is Key stretching technique and how it is related to Salt and Pepper?
5. Mention two differences and two similarities between Salt and Pepper.