ITIS 3200 Introduction to Information Security and Privacy
Password Cracking
PART 1
# Individual Submission

Description
In the following exercise, we will be using **Cain&Abel**, a password recovery tool for Microsoft Operating systems, to crack and retrieve Windows 8.1 system user passwords from their hashes.

Part 1 (Setup): Should be done before coming to class
You will require a VM with Windows 8.1 for this exercise. You may use the ones that you have previously setup for Quasar RAT. **Perform the following steps in your Attacker VM.**

1. Download and install WinPcap from the following link
   https://www.winpcap.org/install/default.htm

2. Once you install WinPcap, download Cain&Abel from:
   https://github.com/xchwarze/Cain/archive/master.zip

3. Extract the contents of the downloaded file (.zip) using 7-zip.
   Note: If 7-Zip does not appear in your right-click menu, return to https://www.7-zip.org and install the **64-bit version of 7-zip.**
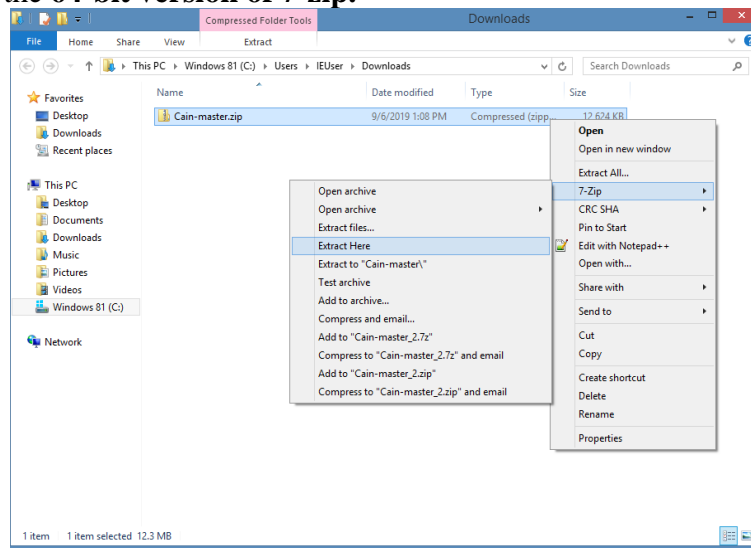
4. Next, download a password dictionary called "500-worst-passwords.txt.bz2" from the following link:
   https://wiki.skullsecurity.org/Passwords#Password_dictionaries

5. Once the file is downloaded, use 7zip to decompress it and obtain the .txt file with the list of common 500 passwords. You will use this dictionary in Part 2 of the Password Cracking Activity.

6. **Submission**
   Open the 500-worst-passwords.txt file and run Cain (from the extracted files in Cain&Abel, execute "Cain.exe") inside the VM. Then, open notepad and write your name and student ID in it, then take a screenshot for the VM (*VMWare Workstation/Fusion must be visible in the screenshot*). In order to receive the full grade for this part; "500-worst-passwords.txt", "Cain", and the notepad (with your name and ID) must be visible in this screenshot.

   Upload the picture on Canvas. (10 points)