C3C Colton Willits

CompSci 210

Dr. Weingart

11/9/2020

easyHash Design

Requirements:

Shall have a GUI to interact with program – 25%

Shall use HashCat functions with hashcat.exe and return output – 25%

Shall export hashed passwords to external file for later use by user – 25%

Shall convert pcap to hashcat hccapx through cap2hccapx.exe and run WPA hash -25%

May include all hash cat functions/GPU hashing features.

Design: (uses Pointers, File I/O, Structs, String Manipulation, and processing array data)(Uses recursion)

Initialize – create GUI window

getSystemInfomation() – gets GPU and other system information to populate field for GUI populate system struct pointer

startHash() – takes user input and creates a command line executable string for hashcat.exe from struct hash pointer

convertPcap() – converts WPA pcap capture to hccapx before hashing through cap2hccapx.exe command line executable. Uses string manipulation to create command line executable

readResults() – Reads results from hashcat output file string manipulation to read certain sections of the hash output file.

status() – returns the status of the hash and displays it to user. Recursive function for loading bar.

printPasswords() – prints passwords to file for user to save.

Structure:





Documentation Statement:

I confirm that this is all my own work and that I did not receive any help.