50.042 Foundations of Cybersecurity

Lab CTF Challenge

Done By: Sarthak Ganoorkar (1002901), Tan Zhao Tong (1003031), Tay Mei Mei (1003136), Wu Xiaomeng (1002973)

Challenge Description

You have been given a batch of images that was encrypted with a secret key using ECB, which we did in Lab 4. These images include letters which you will need to use to form the flag. Your goal is to figure out the key that was used to encrypt the images, decrypt the images and figure out the flag. To get you started, a key and a poem will be given to you as a hint.

Title: PHIBFB8DKGEE

Death is not the end we seek

It is the beginning, for I

Cannot help but kneel

To the collosal hades' will.

Find the key to decrypt the files.

-- Sartech Solutions© INC, 2019

Once you have figured out the word, please input the flag as "ctf{<the word you have found>}".

Good luck!

P.S. if you have trouble using your ECB cipher to decrypt the images, please use the one included in the zip folder (ecb.py). Run the command as python ecb.py -i <input file> -o <output file> -k <key in hexadecimal> -m d