

# Challenge Writeup

Title: Scriptie Boi - 3

Category: OSINT

Author: Sachin

Description:

The main goal of this challenge is to find our final flag. He challenged us to break his so-called great cipher with which he gave us the final flag file .(Don't use crypto skills, use OSINT to solve(maybe he gave out the program))

Points: 300

## Walkthrough:

- 1.From SB -1,2 using the data
- 2.Checking out his facebook profile



**Kalki BM**

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Encryption programoooo

What the FCK ?

```
void Enigma::displayKey() {
    cout << "The Enigma Key: " << (char)(rotarI+65) << (char)(rotarII+65) << (char)(rotarIII+65) << endl;
}

char Enigma::encrypt(char token) {
    char temp = encrypt(token, rotarI);
    char final = encrypt(temp, rotarII);
    return encrypt(final, rotarIII);
}

char Enigma::encrypt(char token, int rotar) {
    int index = (int) token;
    if (index >= 65 && index <= 90) {
        index = index - 65 + rotar;
        if (index >= 26) {
            index = index - 26;
        }
        return keyList[index];
    } else if (index > 96 && index <= 122) {
        index = index - 32;
        return encrypt((char) index, rotar);
    } else {
        return token;
    }
}

char Enigma::cipher(char token) {
    char temp = cipher(token, rotarIII);
    char final = cipher(temp, rotarII);
    return cipher(final, rotarI);
}

char Enigma::cipher(char token, int rotar) {
    int ascii = 0;
    bool isAscii = false;
    for (int i = 0; i < 26; i++) {
        if (token == keyList[i]) {
            ascii = i + 65;
            isAscii = true;
        }
    }
}
```



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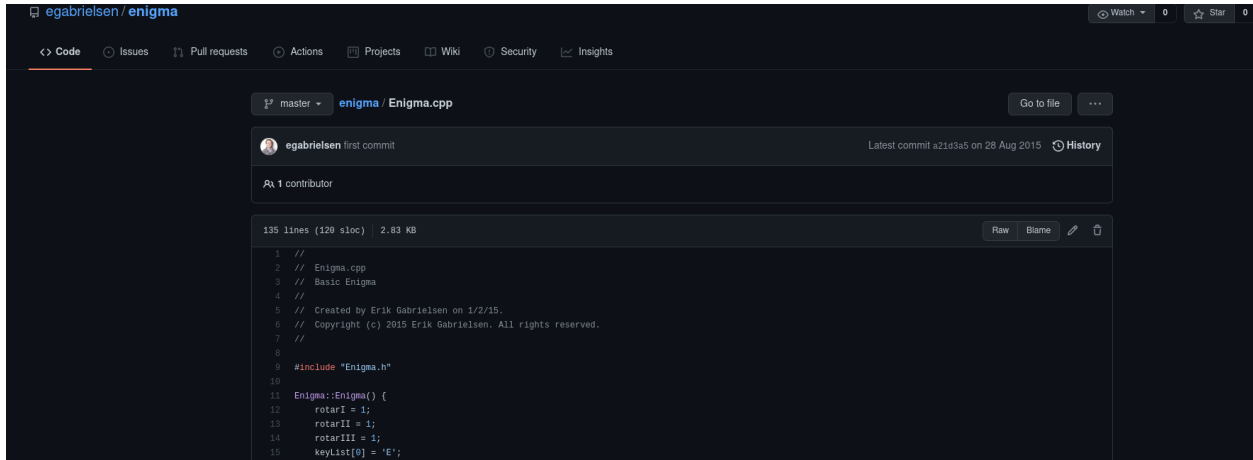
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Press Enter to post.

3.He has posted some program code.

4. Analyzing and code searching in github we can find that the code is enigma code to encrypt a file.



The screenshot shows the GitHub interface for the repository 'egabrielsen/enigma'. The file 'Enigma.cpp' is selected, showing its commit history and code. The code is a C++ implementation of an Enigma machine encryption algorithm. It includes a header 'Enigma.h' and defines a class 'Enigma' with a constructor that initializes three rotors (rotarI, rotarII, rotarIII) and a keyList. The code is 135 lines long, 120 sloc, and 2.83 KB.

```
1 //  
2 // Enigma.cpp  
3 // Basic Enigma  
4 //  
5 // Created by Erik Gabrielsen on 1/2/15.  
6 // Copyright (c) 2015 Erik Gabrielsen. All rights reserved.  
7 //  
8  
9 #include "Enigma.h"  
10  
11 Enigma::Enigma() {  
12     rotarI = 1;  
13     rotarII = 1;  
14     rotarIII = 1;  
15     keyList[0] = 'E';
```

5. Using the code we can now decrypt our given flag file with FCK as the key (FCK is given in description of the post)

```
└─$ ./encryptor encryptedFile
Welcome to Enigma

Please Select an Option:
  (1) Encrypt File
  (2) Cipher File
2
Please Enter the Enigma Key: FCK
F has been verified
C has been verified
K has been verified
Settings Succesfully Configured for The Enigma Key: FCK
Text Successfully Ciphred
└─[rambo@rambo-SD]~[~/Downloads/TamilCTF 2021/Challenges/OSINT/ScriptieBoi-3/programinfb]
└─$ cat cipheredFile
TAMILCTF{I_4m_L3MUR14_C0uNtRy}
```

**Flag:**

TamilCTF{I\_4m\_L3mUr14\_C0uNtRy}

