WEB

Are you from Europe?

一进题目便被告知要抽出五星才能拿到flag

观察源码后发现可以利用showResult这个函数,传入用五星代码构造的二维数组即可抽出五星,抽出五星后便会调用soHappy兑换flag,如图



can u find me?

查看robot协议可知flag藏在f1aaaaaaaag.php中再去访问这个文件被告知不是admin利用hackbar将cookie改成admin即可获得flag

hgame{78e01ee77a39ef4e}



tell me what you want

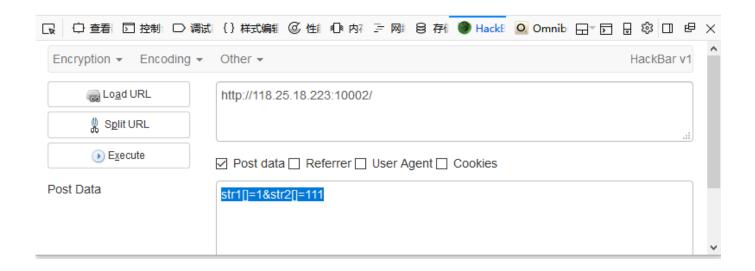
利用curl工具构造符合题意的请求即可

curl -H "X-Forwarded-For: 127.0.0.1" -H "Referer: www.google.com" -H "User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:58.0) Gecko/20100101 Icefox/57.0 " -d "want=flag" "http://123.206.203.108:10001/index.php?"

我们不一样

利用strcmp的漏洞传入str1[]=1&str2[]=111即可拿到flag

flag is:hgame{g3t_f14g_is_so0000_ez}



Crypto

easy Caesar

将密文开头的vuoas与hgame对比可知小写字母移位为12,用脚本简单的处理一下得

然后想起了the quick brown fox jumps over a lazy dog这句话,对比可知大写字母移位为12,数字移位为7

改动后可得flag:hgame{The _qu1ck_br0wn_4x_jUmps_ovEr_a_La2y_dOg}

Polybius

	Α	D	F	G	x
Α	b	t	a	I	р
D	d	h h++n+//h1	og odda not/	Z	k
F	q	iictp://bi	og. csdn. net/	S	n
G	g	j	С	u	х
X	m	r	е	W	у

对照这个方阵可得hgame{frjtz_nebel_jnvented_jt} 提交上去发现不对,后又知该密码中i与j相等,于是把j换为i即为正解 hgame{fritz_nebel_invented_it}

Hill

https://www.dcode.fr/hill-cipher

将key与密文放在在线网站上一解便得flag:



confusion

一开始的密文为摩尔斯电码,放在在线网站上翻译得

MRLTK6KXNVZXQWBSNA2FSU2GGBSW45BSLAZFU6SVJBNDAZSRHU6Q==== 然后base32解码

dW5yWmsxX2h4YSF0ent2X2ZzUHZ0fQ==

base64解码

unrZk1 hxa!tz{v fsPvt}

栅栏

```
请输入要解密的字符串

unrZkl_hxg/tz(v_fsPvt)

分为 2 栏时,解密结果为: utnzr{Zvk_lf_shPxvat!}
```

最后是凯撒移位13便可拿到flag

 $hgame\{Mix_1s_fuCking!\}$

Misc

pacp1

wireshark打开之后在底部发现了获取flag.php的请求

-	557 17.532392	192.168.110.1	192.168.110.128	HTTP	432 GET /flag.php HTTP/1.1
	558 17.532672	192.168.110.128	192.168.110.1	TCP	60 80 → 30616 [ACK] Seq=174530 Ack=6153 Win=51584 Len=0
-	559 17.535130	192.168.110.128	192.168.110.1	HTTP	359 HTTP/1.1 200 OK (text/html)

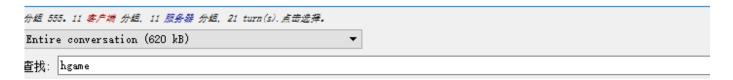
对其响应追踪HTTP流后查找hgame即可获得flag

HTTP/1.1 200 OK Server: nginx

Date: Mon, 29 Jan 2018 12:36:09 GMT Content-Type: text/html; charset=UTF-8

Transfer-Encoding: chunked Connection: keep-alive Vary: Accept-Encoding X-Powered-By: PHP/7.1.7 Content-Encoding: gzip

hgame{bfebcf95972871907c89893aa3096ec6}



白菜2

先用binwalk扫一下,发现里面有一个zip

DECIMAL	HEXADECIMAL	DESCRIPTION
0	0x0	JPEG image data, JFIF standard 1.01
349077	0x55395	QNX IFS
1037199	0xFD38F	Zip archive data, at least v2.0 to extract, compressed size: 41, uncompressed size: 39, name: flag.txt
1037368	0xFD438	End of Zip archive, footer length: 22

将该文件后缀改成rar解压即可拿到flag

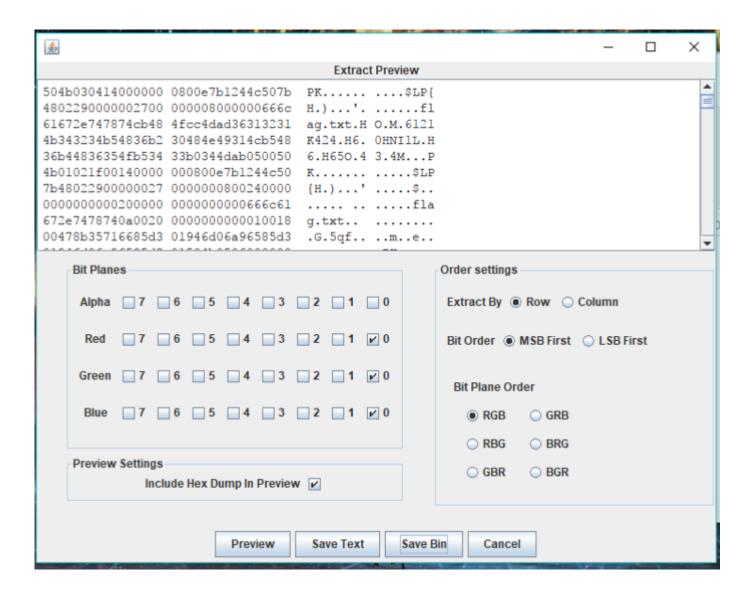


文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

hgame {af2ab981a021e3def22646407cee7bdc}

白菜1

用stegsolve打开,查看RGB最低位



由头猜测可能是zip文件,保存为二进制文件之后修改后缀名为zip 第一次解压提示文件损坏,用winrar修复后成功解压得flag



Re

re0

用notepad++打开查找hgame即可找到flag hctf{F1r5t_St5p_Ls_Ea5y}

nop_pop

由提示可知要去掉pop子的窗口

参照winrar去广告的方法,用od打开之后搜索CreateWindowExW,在调用这个api的地方下断点后开始动态调试,到这里时弹出pop子窗口

```
C *G.P.U* - main thread, module nop_pop
                                                                                                                                                           - - X
                                                                                             hWnd = 00000001
00401160
00401165
00401167
0040116D
                 A3 A4434000
                                         dword ptr ds:[0x4043A4],eax
                 FFD7
                                          edi
                                    push dword ptr ds:[0x4043A4]
mov esi,dword ptr ds:[<&USER32.UpdateWi
                                                                                           _hWnd = 0010042E ('pop team epic',class='nop_me')
| user32.UpdateWindow
                 FF35 A443400
                 8B35 9430400
00401173
                 FFD6
00401175
                 6A 00
                                                                                           -1Param = NULL
                                                                                           Traram - NULL

hInst = 00000258

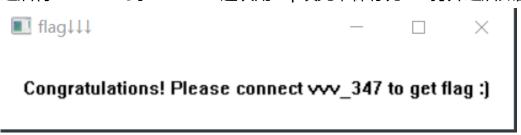
hMenu = NULL

hParent = NULL

Height = 64 (100.)

Width = 190 (400.)
00401177
                 FF7424 10
                                          dword ptr ss:[esp+0x10]
0040117B
                 6A 00
                 6A 00
0040117D
0040117F
                 6A 64
00401181
                 68 90010000
                                          0x190
                                                                                            Y = 15E (350.)
X = 258 (600.)
                 68 5E010000
00401186
                 68 58020000
0040118B
                                                                                            Style = WS_OUERLAPPED|WS_MINIMIZEBOX|WS_MAXIMIZEBOX|WS_SWindowName = "flag \downarrow \downarrow \downarrow" Class = "death_march"
00401190
                 68 0000CF00
                                           0xCF 0000
00401195
                 68 60324000
                                          nop_pop.00403260
nop_pop.00404028
0040119A
                 68 28404000
                                                                                            ExtStyle = 0
                 6A 00
0040119F
                 FF75 14
A3 C4434000
004011A7
004011AA
                                    push [arg.4]
mov dword ptr ds:[0x4043C4],eax
                                                                                            ShowState = SW SHOWDEFAULT
004011AF
                                                                                            hWnd = 00000001
004011B0
                 FFD7
                                                                                           ChWnd = NULL
004011B2
                 FF35 C443400
                                    push dword ptr ds:[0x4043C4]
004011B8
                 FFD6
                  0F1005 A8434
                                                   dqword ptr ds:[0x4043A8]
004011BA
```

之后将00401175到004011A1这块用nop填充,保存为exe打开之后如图所示



这样就可以去找v爷爷拿flag了, flag: hctf{Far5we1L_G0od_Cr4cker}

baby crack

ida打开在main函数处f5后如图,可以得知输入被三次加密后再进行比较

```
1 __int64 __fastcall main(__int64 a1, char **a2, char **a3)
  2 {
  3
        _int64 result; // rax@4
        int64 v4; // rcx@4
      char s[8]; // [sp+0h] [bp-50h]@1
      __int64 v6; // [sp+8h] [bp-48h]@1
__int64 v7; // [sp+10h] [bp-40h]@1
      __int64 v8; // [sp+18h] [bp-38h]@1
__int64 v9; // [sp+20h] [bp-30h]@1
      __int64 v10; // [sp+28h] [bp-28h]@1
 10
      __int64 v11; // [sp+30h] [bp-20h]@1
__int64 v12; // [sp+38h] [bp-18h]@1
 11
 12
 13
      __int64 v13; // [sp+48h] [bp-8h]@1
 14
      v13 = *MK_FP(__FS__, 40LL);
*(_QWORD *)s = 0LL;
15
16
17
      v6 = 0LL;
      v7 = 0LL;
18
      v8 = 0LL;
19
20
      v9 = 0LL;
      v10 = 0LL;
21
22
      v11 = OLL;
      v12 = OLL;
23
24
      puts("Input your flag: ");
25
      fgets(s, 32, stdin);
      sub_4006DF(&v9, s);
26
      sub_400662(&v9);
27
      sub_400616(&v9);
28
29
      if ( sub_40083A(&v9) == 1 )
        puts("\nGood Job");
30
 31
      else
      puts("\nTry Again");
result = OLL;
32
33
34
      v4 = *MK_FP(__FS__, 40LL) ^ v13;
      return result;
35
36 }
        个函数进行位操作(20个字符4个一组分组进行循环位移)
1 V 0 1 G
        _tastcall sub_4000vF(__into4 a1, __into4 a2)
   unsigned int v2; // eax@2
signed int i; // [sp+1Ch] [bp-4h]@1
    for ( i = 0; i <= 19; ++i )
     _int64)i >> 32) >> 30) + (_BYTE)i) & 3)
10
11
       *(_BYTE *)(i + a1) = 4 * *(_BYTE *)(i + a2) | (*(_BYTE *)(i + a2) >> 6);
13
14
     else if ( (signed int)v2 > 1 )
15
16
       if ( U2 == 2 )
17
         *(_BYTE *)(i + a1) = 16 * *(_BYTE *)(i + a2) | (*(_BYTE *)(i + a2) >> 4);
18
19
20
       else if ( v2 == 3 )
21
22
         *(_BYTE *)(i + a1) = (*(_BYTE *)(i + a2) >> 2) | (*(_BYTE *)(i + a2) << 6);
23
24
25
      else if ( ((((unsigned int)((unsigned __int64)i >> 32) >> 30) + (_BYTE)i) & 3) == (unsigned int)((unsigned __int64)i >> 32) >> 30 )
26
        *(_BYTE *)(i + a1) = 2 * *(_BYTE *)(i + a2) | (*(_BYTE *)(i + a2) >> 7);
28
     }
```

第二个函数交换字符次序

29 } 30}

```
int64 fastcall sub 400662( int64 a1)
 1
 2 (
 3
    char v1; // STOB 1@2
 4
     int64 result; // rax@2
 5
    signed int v3; // [sp+Ch] [bp-Ch]@1
    signed int v4; // [sp+10h] [bp-8h]@1
    signed int v5; // [sp+14h] [bp-4h]@1
 7
 8
 9
    v3 = 0;
10
    04 = 1;
    v5 = 2;
11
12
    while ( 04 <= 20 )
13
14
      v1 = *(_BYTE *)(v3 + a1);
15
      *(_BYTE *)(a1 + v3) = *(_BYTE *)(v4 + a1);
      *(_BYTE *)(a1 + v4) = v1;
16
      03 = 04:
17
      result = (unsigned int)v5;
18
19
      04 += 05++;
20
    }
21
    return result;
22 }
第三是数组下标映射
 1 int64 __fastcall sub_400616(__int64 a1)
 2 (
      int64 result; // rax@2
   signed int i; // [sp+14h] [bp-4h]@1
 5
    for (i = 0; i \le 19; ++i)
 6
 7
 8
      result = (unsigned int)dword_601060[(unsigned __int64)*(_BYTE *)(i + a1)];
 9
      *(_BYTE *)(a1 + i) = result;
10
11
    return result;
12|}
```

以此可以写出如下的解密脚本

```
1
   image = [0x11, 0x0BF, 0x0BA, 0x0F,
2
   0x0D5, 0x0CC, 0x0BC, 0x1E,
   0x19, 0x1, 0x87, 0x1B,
   0x96, 0x0C3, 0x86, 0x1A,
4
   0x7E, 0x6B, 0x5A, 0x8D,
5
   0x0FB, 0x0C2, 0x8B, 0x0B3,
6
   0x0B1, 0x0DD, 0x0EF, 0x0A,
   0x4B, 0x0F8, 0x55, 0x26,
8
   0x76, 0x0AB, 0x0C1, 0x64,
10 0x17, 0x0C9, 0x0AF, 0x61,
11 0x67, 0x4A, 0x0CA, 0x12,
12 0x24, 0x0E1, 0x0AE, 0x50,
13 0x3A, 0x70, 0x37, 0x0ED,
14 0x0E0, 0x77, 0x0B7, 0x2E,
15 0x0A1, 0x2D, 0x32, 0x7B,
```

```
16 0x89, 0x0CF, 0x0F0, 0x94,
```

- 17 0x21, 0x65, 0x0B, 0x3F,
- 18 0x7D, 0x29, 0x3B, 0x5,
- 19 0x51, 0x0E7, 0x81, 0x6E,
- 20 0x33, 0x0C6, 0x0D7, 0x0AC,
- 21 0x3C, 0x9A, 0x22, 0x0DC,
- 22 0x7A, 0x8, 0x6A, 0x97,
- 23 0x0F1, 0x5F, 0x8E, 0x62,
- 24 0x6F, 0x13, 0x8A, 0x82,
- 25 0x8C, 0x2A, 0x49, 0x39,
- 26 0x18, 0x68, 0x0D0, 0x83,
- 27 0x0B4, 0x42, 0x36, 0x71,
- 28 0x0C, 0x57, 0x10, 0x0F3,
- 29 0x28, 0x0D4, 0x34, 0x0E,
- 30 0x0E4, 0x0FF, 0x6, 0x0AD,
- 31 0x5C, 0x0FC, 0x0DB, 0x0DE,
- 32 0x0DA, 0x9F, 0x0EA, 0x35,
- 33 0x5E, 0x78, 0x52, 0x0D9,
- 34 0x4F, 0x6D, 0x0BB, 0x0A8,
- 35 0x0B0, 0x15, 0x43, 0x90,
- 36 0x25, 0x0A6, 0x54, 0x0FE,
- 37 0x0D, 0x0EB, 0x0A9, 0x0FD,
- 38 0x0E9, 0x5D, 0x16, 0x0CB,
- 39 0x2F, 0x4E, 0x0BD, 0x0C5,
- 40 0x9, 0x46, 0x0F7, 0x0C0,
- 41 0x1F, 0x59, 0x0D3, 0x2,
- 42 0x23, 0x9D, 0x60, 0x4,
- 43 0x84, 0x0F6, 0x0A4, 0x1D,
- 44 0x31, 0x4C, 0x0C8, 0x9B,
- 45 0x0C7, 0x0DF, 0x66, 0x2C,
- 46 0x0EC, 0x79, 0x73, 0x30,
- 47 0x69, 0x63, 0x95, 0x0D6,
- 48 0x0BE, 0x44, 0x0E8, 0x0A5,
- 49 0x0F2, 0x99, 0x0D8, 0x38,
- 50 0x0A0, 0x0E3, 0x8F, 0x0D2,
- 51 0x53, 0x3D, 0x56, 0x92,
- 52 0x72, 0x0FA, 0x0B8, 0x0A7,
- 53 0x0CD, 0x0EE, 0x93, 0x85,
- 54 0x6C, 0x7F, 0x0AA, 0x0B2,
- 55 0x47, 0x0CE, 0x80, 0x20,
- 56 0x1C, 0x7C, 0x7, 0x0E2,
- 57 0x0B9, 0x91, 0x45, 0x74,
- 58 0x98, 0x0F5, 0x3E, 0x3,
- 59 0x0C4, 0x0, 0x41, 0x100,
- 60 0x2B, 0x48, 0x27, 0x0E6,
- 61 0x5B, 0x0F4, 0x9C, 0x88,

```
62 0x75, 0x0A2, 0x0B6, 0x14,
63 0x0D1, 0x0E5, 0x4D, 0x40,
64 0x0F9, 0x9E, 0x58, 0x0A3]
65 weijiemi_data = [0xA6,0x4E, 5,0xA2,0xB6,
   8,0xA2,0xCE,0x8C,0xEE,0x20,0xC2,0x98,0xA0,0xD0,0xCD,0x23,0xA6,0x6A,0x82]
66 | jiemi_data = [0] * len(weijiemi_data)
67
   def jiami01(enc):
68
69
        for i in range(len(enc)):
70
            enc[i] = image.index(enc[i])
71
   def jiami02(enc):
72
        pos = 15
73
        i = 5
74
        while(pos > 0):
75
            enc[pos], enc[pos-i] = enc[pos-i], enc[pos]
76
            pos = pos - i
            i -= 1
77
78
   def jiami03(enc,dec):
79
        for i in range(len(enc)):
            if(i % 4 == 0):
80
                dec[i] = (enc[i] << 7 \mid enc[i] >> 1) & 0xff
81
            if(i % 4 == 1):
82
                dec[i] = (enc[i] << 6 \mid enc[i] >> 2) & 0xff
83
            if(i % 4 == 2):
84
                dec[i] = (enc[i] << 4 \mid enc[i] >> 4) \& 0xff
85
            if(i % 4 == 3):
86
87
                dec[i] = (enc[i] << 2 \mid enc[i] >> 6) \& 0xff
88
89
   jiami01(weijiemi_data)
90 | jiami02(weijiemi_data)
   jiami03(weijiemi_data, jiemi_data)
91
92
   for i in range(20):
93
94
        jiemi_data[i] = chr(jiemi_data[i])
   print ''.join(jiemi_data)
95
96
```

运行之后就可以拿到flag

```
>>>
hctf{U_g0t_TrlfoRce}
```