

buuctf——[ACTF新生赛2020]rome && buuctf——[GUET-CTF2019]re && buuctf——[FlareOn4]login

原创

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[ACTF新生赛2020]rome

```
4 int v1; // [esp+14h] [ebp-44h]
5 int v2; // [esp+18h] [ebp-40h]
6 int v3; // [esp+1Ch] [ebp-3Ch]
7 int v4; // [esp+20h] [ebp-38h]
8 unsigned __int8 v5; // [esp+24h] [ebp-34h]
9 unsigned __int8 v6; // [esp+25h] [ebp-33h]
10 unsigned __int8 v7; // [esp+26h] [ebp-32h]
11 unsigned __int8 v8; // [esp+27h] [ebp-31h]
12 unsigned __int8 v9; // [esp+28h] [ebp-30h]
13 int v10; // [esp+29h] [ebp-2Fh]
14 int v11; // [esp+2Dh] [ebp-2Bh]
15 int v12; // [esp+31h] [ebp-27h]
16 int v13; // [esp+35h] [ebp-23h]
17 unsigned __int8 v14; // [esp+39h] [ebp-1Fh]
18 char v15; // [esp+38h] [ebp-1Dh]
19 char v16; // [esp+3Ch] [ebp-1Ch]
20 char v17; // [esp+3Dh] [ebp-18h]
21 char v18; // [esp+3Eh] [ebp-1Ah]
22 char v19; // [esp+3Fh] [ebp-19h]
23 char v20; // [esp+40h] [ebp-18h]
24 char v21; // [esp+41h] [ebp-17h]
25 char v22; // [esp+42h] [ebp-16h]
26 char v23; // [esp+43h] [ebp-15h]
27 char v24; // [esp+44h] [ebp-14h]
28 char v25; // [esp+45h] [ebp-13h]
29 char v26; // [esp+46h] [ebp-12h]
30 char v27; // [esp+47h] [ebp-11h]
31 char v28; // [esp+48h] [ebp-10h]
32 char v29; // [esp+49h] [ebp-Fh]
33 char v30; // [esp+4Ah] [ebp-Eh]
34 char v31; // [esp+4Bh] [ebp-Dh]
35 int i; // [esp+4Ch] [ebp-Ch]
36
37 v15 = 81;
38 v16 = 115;
39 v17 = 119;
40 v18 = 51;
41 v19 = 115;
42 v20 = 106;
43 v21 = 95;
44 v22 = 108;
45 v23 = 122;
46 v24 = >2;
47 v25 = 95;
48 v26 = 85;
49 v27 = 106;
50 v28 = 119;
51 v29 = 64;
52 v30 = 108;
53 v31 = 0;
54 printf("Please input:");
55 scanf("%s", &v5);
56 result = v5;
57 if ( v5 == 65 )
58 {
59     result = v6;
60     if ( v6 == 67 )
61     {
62         result = v7;
63         if ( v7 == 84 )
64         {
65             result = v8;
66             if ( v8 == 70 )
67             {
68                 result = v9;
69                 if ( v9 == 123 )
70                 {
71                     result = v14;
72                     if ( v14 == 125 )
```

```

73     {
74         v1 = v10;
75         v2 = v11;
76         v3 = v12;
77         v4 = v13;
78         for ( i = 0; i <= 15; ++i )
79         {
80             if ( *((_BYTE *)&v1 + i) > 64 && *((_BYTE *)&v1 + i) <= 90 )
81                 *((_BYTE *)&v1 + i) = *((char *)&v1 + i) - 51) % 26 + 65;
82             if ( *((_BYTE *)&v1 + i) > 96 && *((_BYTE *)&v1 + i) <= 122 )
83                 *((_BYTE *)&v1 + i) = *((char *)&v1 + i) - 79) % 26 + 97;
84         }
85         for ( i = 0; i <= 15; ++i )
86         {
87             result = (unsigned __int8)*(&v15 + i);
88             if ( *((_BYTE *)&v1 + i) != (_BYTE)result )
89                 return result;
90         }
91         result = printf("You are correct!");
92     }
93 }
94 }
95 }
96 }
97 }
98 return result;
99 }

```

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加密运算

```

v4 = v13;
for ( i = 0; i <= 15; ++i )
{
    if ( *((_BYTE *)&v1 + i) > 64 && *((_BYTE *)&v1 + i) <= 90 )
        *((_BYTE *)&v1 + i) = *((char *)&v1 + i) - 51) % 26 + 65;
    if ( *((_BYTE *)&v1 + i) > 96 && *((_BYTE *)&v1 + i) <= 122 )
        *((_BYTE *)&v1 + i) = *((char *)&v1 + i) - 79) % 26 + 97;
}

```

很像凯撒密码

第二个for循环进行了校验，把输入的值和v15-v30的初始值进行对比。

```

5     for ( i = 0; i <= 15; ++i )
6     {
7         result = (unsigned __int8)*(&v15 + i);
8         if ( *((_BYTE *)&v1 + i) != (_BYTE)result )
9             return result;
10    }
11    result = printf("You are correct!");
12 }

```

程序很简单，就是让我们输入一个字符串，然后判断大小写，进行相应的运算，最后得到了程序开头的数组

v15= ['Q','s','w','3','s','j',' ','l','z','4',' ','U','j','w','@','l']

由于加密运算里的那个%运算的逆运算很神奇，所以我就采取了最简单直观的暴力破解。

```

v15 = [ 'Q', 's', 'w', '3', 's', 'j', '_', 'l', 'z', '4', '_', 'U', 'j', 'w', '@', 'l' ]
flag=""

for i in range(16):
    for j in range(128):#ascii表上有127个字符，一个一个试吧
        x=j
        if chr(x).isupper():
            x=(x-51)%26+65
        if chr(x).islower():
            x=(x-79)%26+97
        if chr(x)==v15[i]:
            flag+=chr(j)

print ('flag{'+flag+'}')

```

```

flag{Cae3ar_th4_Gre@t}
>>>

```

[GUET-CTF2019]re

upx, 脱

```

2|{
3|  const char *v0; // rdi
4|  __int64 result; // rax
5|  __int64 v2; // rdx
6|  unsigned __int64 v3; // rt1
7|  __int64 v4; // [rsp+0h] [rbp-30h]
8|  __int64 v5; // [rsp+8h] [rbp-28h]
9|  __int64 v6; // [rsp+10h] [rbp-20h]
10| __int64 v7; // [rsp+18h] [rbp-18h]
11| unsigned __int64 v8; // [rsp+28h] [rbp-8h]
12|
13| v8 = __readfsqword(0x28u);
14| v4 = 0LL;
15| v5 = 0LL;
16| v6 = 0LL;
17| v7 = 0LL;
18| sub_40F950((unsigned __int64)"input your flag:");
19| sub_40FA80((unsigned __int64)"%s");
20| if ( (unsigned int)sub_4009AE((char *)&v4) )
21| {
22|     v0 = "Correct!";
23|     sub_410350((__int64)"Correct!");
24| }
25| else
26| {
27|     v0 = "Wrong!";
28|     sub_410350((__int64)"Wrong!");
29| }
30| result = 0LL;
31| v3 = __readfsqword(0x28u);
32| v2 = v3 ^ v8;
33| if ( v3 != v8 )
34|     sub_443550(v0, &v4, v2);
35| return result;
36|}

```

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进入sub_4009AE

```

7| if ( 3682944 * a1[2] != 357245568 )
8|     return 0LL;

```

```
9  if ( 10431000 * a1[3] != 1074393000 )
10     return 0LL;
11  if ( 3977328 * a1[4] != 489211344 )
12     return 0LL;
13  if ( 5138336 * a1[5] != 518971936 )
14     return 0LL;
15  if ( 7532250 * a1[7] != 406741500 )
16     return 0LL;
17  if ( 5551632 * a1[8] != 294236496 )
18     return 0LL;
19  if ( 3409728 * a1[9] != 177305856 )
20     return 0LL;
21  if ( 13013670 * a1[10] != 650683500 )
22     return 0LL;
23  if ( 6088797 * a1[11] != 298351053 )
24     return 0LL;
25  if ( 7884663 * a1[12] != 386348487 )
26     return 0LL;
27  if ( 8944053 * a1[13] != 438258597 )
28     return 0LL;
29  if ( 5198490 * a1[14] != 249527520 )
30     return 0LL;
31  if ( 4544518 * a1[15] != 445362764 )
32     return 0LL;
33  if ( 3645600 * a1[17] != 174988800 )
34     return 0LL;
35  if ( 10115280 * a1[16] != 981182160 )
36     return 0LL;
37  if ( 9667504 * a1[18] != 493042704 )
38     return 0LL;
39  if ( 5364450 * a1[19] != 257493600 )
40     return 0LL;
41  if ( 13464540 * a1[20] != 767478780 )
42     return 0LL;
43  if ( 5488432 * a1[21] != 312840624 )
44     return 0LL;
45  if ( 14479500 * a1[22] != 1404511500 )
46     return 0LL;
47  if ( 6451830 * a1[23] != 316139670 )
48     return 0LL;
49  if ( 6252576 * a1[24] != 619005024 )
50     return 0LL;
51  if ( 7763364 * a1[25] != 372641472 )
52     return 0LL;
53  if ( 7327320 * a1[26] != 373693320 )
54     return 0LL;
55  if ( 8741520 * a1[27] != 498266640 )
56     return 0LL;
57  if ( 8871876 * a1[28] != 452465676 )
58     return 0LL;
59  if ( 4086720 * a1[29] != 208422720 )
60     return 0LL;
61  if ( 9374400 * a1[30] == 515592000 )
62     return 5759124 * a1[31] == 719890500;
63  return 0LL;
64 }
```

```

a1 = chr(166163712 // 1629056)
a2 = chr(731332800 // 6771600)
a3 = chr(357245568 // 3682944)
a4 = chr(1074393000 // 10431000)
a5 = chr(489211344 // 3977328)
a6 = chr(518971936 // 5138336)
a8 = chr(406741500 // 7532250)
a9 = chr(294236496 // 5551632)
a10 = chr(177305856 // 3409728)
a11 = chr(650683500 // 13013670)
a12 = chr(298351053 // 6088797)
a13 = chr(386348487 // 7884663)
a14 = chr(438258597 // 8944053)
a15 = chr(249527520 // 5198490)
a16 = chr(445362764 // 4544518)
a17 = chr(981182160 // 10115280)
a18 = chr(174988800 // 3645600)
a19 = chr(493042704 // 9667504)
a20 = chr(257493600 // 5364450)
a21 = chr(767478780 // 13464540)
a22 = chr(312840624 // 5488432)
a23 = chr(1404511500 // 14479500)
a24 = chr(316139670 // 6451830)
a25 = chr(619005024 // 6252576)
a26 = chr(372641472 // 7763364)
a27 = chr(373693320 // 7327320)
a28 = chr(498266640 // 8741520)
a29 = chr(452465676 // 8871876)
a30 = chr(208422720 // 4086720)
a31 = chr(515592000 // 9374400)
a32 = chr(719890500 // 5759124)

print (a1,a2,a3,a4,a5,a6,a8,a9,a10,a11,a12,a13,a14,a15,a16,a17,a18,a19,a20,a21,a22,a23,a24,a25,a26,a27,a28,a29,a
30,a31,a32)

```

```

----- RESTART: C:/Users/00177/Desktop/123456.py -----
flag{e65421110ba03099a1c039337}
\\

```

但是少了a7，即

flag{e ? 65421110ba03099a1c039337}这里少了一位，爆破得到1

即flag{e165421110ba03099a1c039337}

[\[FlareOn4\]login](#)

html打开f12

搜索 HTML

+ 过滤样式

```
<!DOCTYPE html>
<html>
  <head>
  </head>
  <body>
    <input id="flag" type="text" name="flag" value="Enter the flag">
    <input id="prompt" type="button" value="Click to check the flag">
    <script type="text/javascript">
      document.getElementById("prompt").onclick = function () {
        var flag = document.getElementById("flag").value;
        var rotFlag = flag.replace(/[a-zA-Z]/g, function(c){return String.fromCharCode((c <= "Z" ? 90 : 122) >= (c
        = c.charCodeAt(0) + 13) ? c : c - 26)});
        if ("PyyvragFvqqrYbtvafNerRnfl@syner-ba.pbz" == rotFlag) {
          alert("Correct flag!");
        } else {
          alert("Incorrect flag, rot again");
        }
      }
    </script>
  </body>
</html>
```

未选择元素。

<https://blog.csdn.net/Dicked>

rot13

解密

flag{ClientSideLoginsAreEasy@flare-on.com}