

# 攻防世界Reverse进阶区-Shuffle-writeup

原创

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## 1. 介绍

本题是xctf攻防世界中Reverse的进阶区的题Shuffle

题目来源: SECCON-CTF-2014

题目描述: 找到字符串在随机化之前

## 2. 分析

Linux下的32位可执行文件

```
$ file c792c7d80be7404ca9789da97406d2ad
c792c7d80be7404ca9789da97406d2ad: ELF 32-bit LSB executable, Intel 80386, version 1 (SYSV), dynamically linked,
interpreter /lib/ld-linux.so.2, for GNU/Linux 2.6.24, BuildID[sha1]=943d2b390732673f2cfb69d12b64dc659f6779dd, no
t stripped
```

先扔进IDA里分析一下。在第1个部分中, s是某个字符串的起始, 然后又定义了v11~v49这么多个字符。在第二个部分中以time和getpid的值作为种子生成随机数对s进行随机变换。那么, s应该就是flag了。

```
52 s = 83;
53 v11 = 69;
54 v12 = 67;
55 v13 = 67;
56 v14 = 79;
57 v15 = 78;
58 v16 = 123;
59 v17 = 87;
60 v18 = 101;
61 v19 = 108;
62 v20 = 99;
63 v21 = 111;
64 v22 = 109;
65 v23 = 101;
66 v24 = 32;
67 v25 = 116;
68 v26 = 111;
69 v27 = 32;
70 v28 = 116;
71 v29 = 104;
72 v30 = 101;
73 v31 = 32;
74 v32 = 83;
75 v33 = 69;
76 v34 = 67;
77 v35 = 67;
78 v36 = 79;
79 v37 = 78;
80 v38 = 32;
81 v39 = 50;
82 v40 = 48;
83 v41 = 49;
84 v42 = 52;
85 v43 = 32;
86 v44 = 67;
87 v45 = 84;
88 v46 = 70;
89 v47 = 33;
90 v48 = 125;
91 v49 = 0;
92 v3 = time(0);
93 v4 = getpid();
94 srand(v3 + v4);
95 for ( i = 0; i <= 99; ++i )
96 {
97     v5 = rand() % 0x28u;
98     v6 = rand() % 0x28u;
99     v7 = *(&s + v5);
100     *(&s + v5) = *(&s + v6);
101     *(&s + v6) = v7;
102 }
```

00000550 main:52 (8048550)

尝试把数字转成字符（鼠标选中数字，按 R 键），一下子就看出flag了！

[外链图片转存失败,源站可能有防盗链机制,建议将图片保存下来直接上传(img-ppF3z7eC-1600478412108)(en-resource://database/967:1)]

最后写个脚本提取一下就拿到flag了： `SECCON{Welcome to the SECCON 2014 CTF!}`

```
target_str = ""s = 'S';
v11 = 'E';
v12 = 'C';
v13 = 'C';
v14 = 'O';
v15 = 'N';
v16 = '{';
v17 = 'W';
v18 = 'e';
v19 = 'l';
v20 = 'c';
v21 = 'o';
v22 = 'm';
v23 = 'e';
v24 = ' ';
v25 = 't';
v26 = 'o';
v27 = ' ';
v28 = 't';
v29 = 'h';
v30 = 'e';
v31 = ' ';
v32 = 'S';
v33 = 'E';
v34 = 'C';
v35 = 'C';
v36 = 'O';
v37 = 'N';
v38 = ' ';
v39 = '2';
v40 = '0';
v41 = '1';
v42 = '4';
v43 = ' ';
v44 = 'C';
v45 = 'T';
v46 = 'F';
v47 = '!';
v48 = '}' ; ""

import re
res = re.findall(r".*?(.*)"'.*?', target_str)
print("flag:", "".join(res)) # SECCON{Welcome to the SECCON 2014 CTF!}
```



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