Behind the Scenes - Writeup

HackTheBox - Reversing – Very Easy

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```
hacker5preme:~/HTB/Challenges/Reversing/VeryEasy/rev_behindthescenes$ file behindthescenes
behindthescenes: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked, interpreter /lib64/ld
-linux-x86-64.so.2, BuildID[sha1]=e60ae4c886619b869178148afd12d0a5428bfe18, for GNU/Linux 3.2.0, not stripped
```

After finding out, that it is a Linux executable, lets find out what it does.

```
hacker5preme:~/HTB/Challenges/Reversing/VeryEasy/rev_behindthescenes$ ./behindthescenes$ ./challenge <password>
```

It shows, that we don't have to crack something but instead find the password. Therefore we run the string command to check for a password.

```
:~/HTB/Challenges/Reversing/VeryEasy/rev_behindthescenes$ strings behindthescenes
/lib64/ld-linux-x86-64.so.2
libc.so.6
strncmp
puts
 _stack_chk_fail
printf
strlen
sigemptyset
memset
sigaction
__cxa_finalize
__libc_start_main
GLIBC_2.4
GLIBC_2.2.5
 _ITM_deregisterTMCloneTable
 u+UH
[]A\A]A^A_
./challenge <password>
 > HTB{%s}
```

Strings shows us that between ./challenge <password> and HTB{%s} is the section we have to be looking at. Therefore we fire up radare2, search for strings and hexdump it.

```
macker5preme:~/HTB/Challenges/Reversing/VeryEasy/rev_behindthescenes$ r2 behindthescenes
Warning: run r2 with -e bin.cache=true to fix relocations in disassembly
 -- phrack, better than java in the browser -- jvoisin
       01140]> iz
[Strings]
nth paddr
                 vaddr
                              len size section type string
    0x00002004 0x00002004 22 23 .rodata ascii ./challenge <password> 0x0000202b 0x00000202b 10 11 .rodata ascii > HTB{%s}\n
[0x00001140]> px @0x00002004
             011b 033b 4c00 0000 0800 0000
                         8000 0000 78f0
c000 0000 08f1
             0178 1001 1b0c 0708 9001 0000 1400
                         98f0 ffff 2f00 0000 0044 0710 2400 0000 3400 0000 600f
                         000e 1046 0e18 4a0f 0b77 0880
      02014 003f 1a3a 2a33 2422 0000 0000 1400
020e4 5c00 0000 c8ef ffff 1000 0000 0000
020f4 0000 0000 1400 0000 7400 0000 c0ef
```