Capstone - Blue

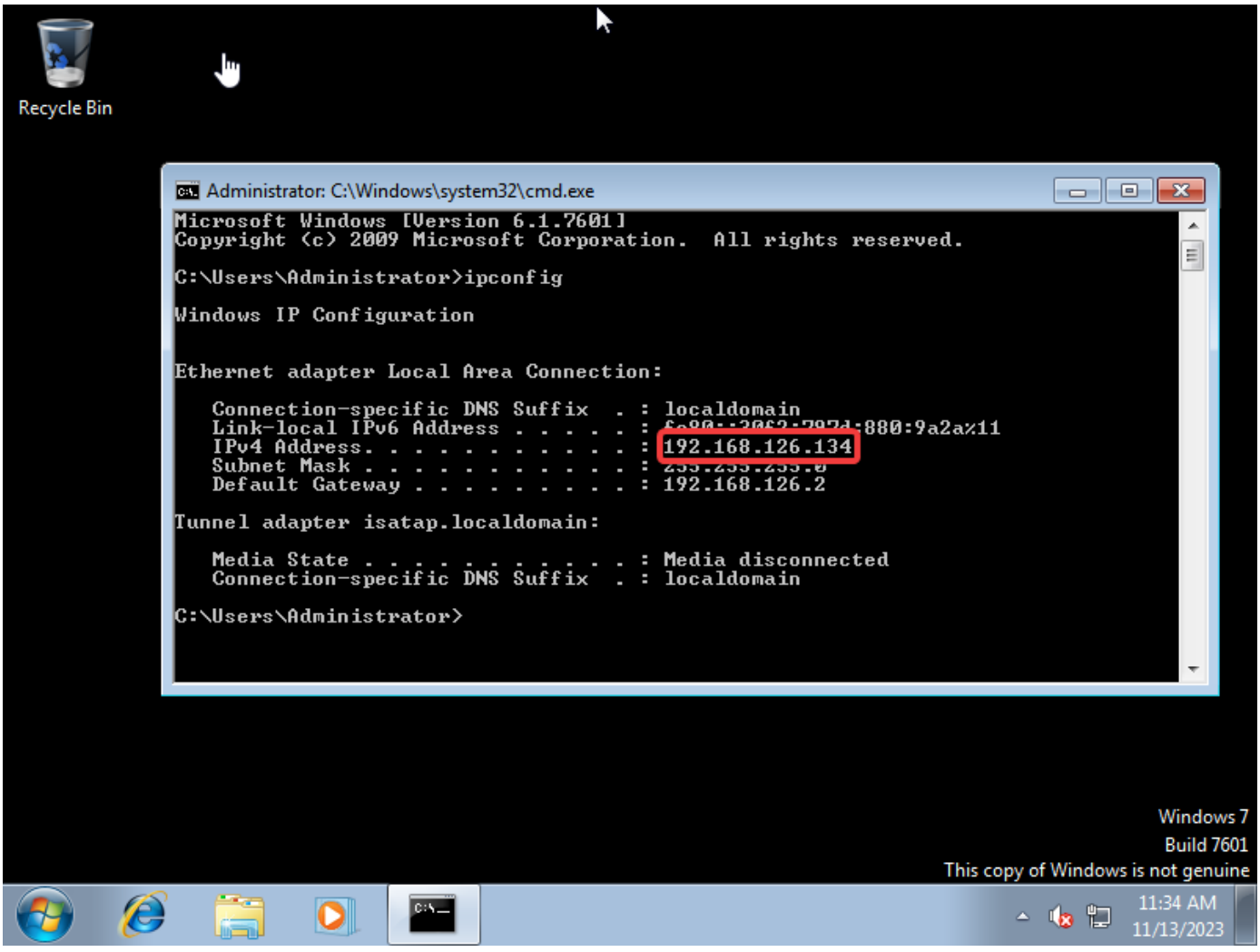
Capstone Links

[VMs]
[Dev.zip]
[Windows Priv Esc for Beginners]
[Linux Priv Esc for Beginners]

Setup Blue

Import Blue in to VMWare or VirtualBox
`User:Password123!`
`Administrator:Password456!`

Get the IP just to make sure you can communicate with the machine



Attacking Blue

Scanning

```
sudo nmap -T4 -v 192.168.126.134
sudo nmap -T4 -p 135,139,445,49152,49153,49154,49155,49156,49156 -sV -sC -v 192.168.126.134 -oA Blue
```

```
┌──(root㉿kali)-[~]
└─# sudo nmap -T4 -v 192.168.126.134
Starting Nmap 7.94 ( https://nmap.org ) at 2023-11-13 12:36 EST
Initiating Ping Scan at 12:36
Scanning 192.168.126.134 [4 ports]
Completed Ping Scan at 12:36, 1.52s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 12:36
Completed Parallel DNS resolution of 1 host. at 12:36, 1.01s elapsed
Initiating SYN Stealth Scan at 12:36
Scanning WIN-845Q99OO4PP (192.168.126.134) [1000 ports]
Discovered open port 135/tcp on 192.168.126.134
Discovered open port 445/tcp on 192.168.126.134
Discovered open port 139/tcp on 192.168.126.134
Discovered open port 49152/tcp on 192.168.126.134
Increasing send delay for 192.168.126.134 from 0 to 5 due to 75 out of 187 dropped probes since last increase.
Discovered open port 49157/tcp on 192.168.126.134
Discovered open port 49156/tcp on 192.168.126.134
Discovered open port 49155/tcp on 192.168.126.134
Discovered open port 49153/tcp on 192.168.126.134
Discovered open port 49154/tcp on 192.168.126.134
Completed SYN Stealth Scan at 12:37, 5.52s elapsed (1000 total ports)
Nmap scan report for WIN-845Q99OO4PP (192.168.126.134)
Host is up (0.00036s latency).
Not shown: 991 closed tcp ports (reset)
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
49152/tcp open  unknown
49153/tcp open  unknown
49154/tcp open  unknown
49155/tcp open  unknown
49156/tcp open  unknown
49157/tcp open  unknown

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 8.14 seconds
           Raw packets sent: 1084 (47.648KB) | Rcvd: 1001 (40.076KB)

┌──(root㉿kali)-[~]
└─#
```

```
PORT      STATE SERVICE     VERSION
135/tcp   open  msrpc       Microsoft Windows RPC
139/tcp   open  netbios-ssn Microsoft Windows netbios-ssn
445/tcp   open  ♦♦♦`U      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
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_clock-skew: mean: 1h39m57s, deviation: 2h53m12s, median: -2s
| smb2-time:
|   date: 2023-11-13T17:39:15
|_  start_date: 2023-11-13T16:31:02
| nbstat: NetBIOS name: WIN-845Q99OO4PP, NetBIOS user: <unknown>, NetBIOS MAC: 00:0c:29:e2:7c:12 (VMware)
| Names:
|   WIN-845Q99OO4PP<00>  Flags: <unique><active>
|   WORKGROUP<00>        Flags: <group><active>
|   WIN-845Q99OO4PP<20>  Flags: <unique><active>
|   WORKGROUP<1e>        Flags: <group><active>
|   WORKGROUP<1d>        Flags: <unique><active>
|_  \x01\x02__MSBROWSE__\x02<01>  Flags: <group><active>
| smb2-security-mode:
|   2:1:0:
|_    Message signing enabled but not required
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb-os-discovery:
|   OS: Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1)
|   OS CPE: cpe:/o:microsoft:windows_7::sp1
|   Computer name: WIN-845Q99OO4PP
|   NetBIOS computer name: WIN-845Q99OO4PP\x00
|   Workgroup: WORKGROUP\x00
|_  System time: 2023-11-13T12:39:15-05:00

NSE: Script Post-scanning.
Initiating NSE at 12:39
Completed NSE at 12:39, 0.00s elapsed
Initiating NSE at 12:39
Completed NSE at 12:39, 0.00s elapsed
Initiating NSE at 12:39
Completed NSE at 12:39, 0.00s elapsed
Read data files from: /usr/bin/../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 66.54 seconds
           Raw packets sent: 16 (656B) | Rcvd: 9 (392B)
```

Open Ports

```
PORT      STATE SERVICE     VERSION
135/tcp   open  msrpc       Microsoft Windows RPC
139/tcp   open  netbios-ssn Microsoft Windows netbios-ssn
445/tcp   open  ♦♦♦`U      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
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
```

```
|_clock-skew: mean: 1h39m57s, deviation: 2h53m12s, median: -2s
| smb2-time:
|   date: 2023-11-13T17:39:15
|_  start_date: 2023-11-13T16:31:02
| nbstat: NetBIOS name: WIN-845Q99OO4PP, NetBIOS user: <unknown>, NetBIOS
MAC: 00:0c:29:e2:7c:12 (VMware)
| Names:
|   WIN-845Q99OO4PP<00>  Flags: <unique><active>
|   WORKGROUP<00>        Flags: <group><active>
|   WIN-845Q99OO4PP<20>  Flags: <unique><active>
|   WORKGROUP<1e>        Flags: <group><active>
|   WORKGROUP<1d>        Flags: <unique><active>
|_  \x01\x02__MSBROWSE__\x02<01>  Flags: <group><active>
| smb2-security-mode:
|   2:1:0:
|_    Message signing enabled but not required
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
| smb-os-discovery:
|   OS: Windows 7 Ultimate 7601 Service Pack 1 (Windows 7 Ultimate 6.1)
|   OS CPE: cpe:/o:microsoft:windows_7::sp1
|   Computer name: WIN-845Q99OO4PP
|   NetBIOS computer name: WIN-845Q99OO4PP\x00
|   Workgroup: WORKGROUP\x00
|_  System time: 2023-11-13T12:39:15-05:00
```

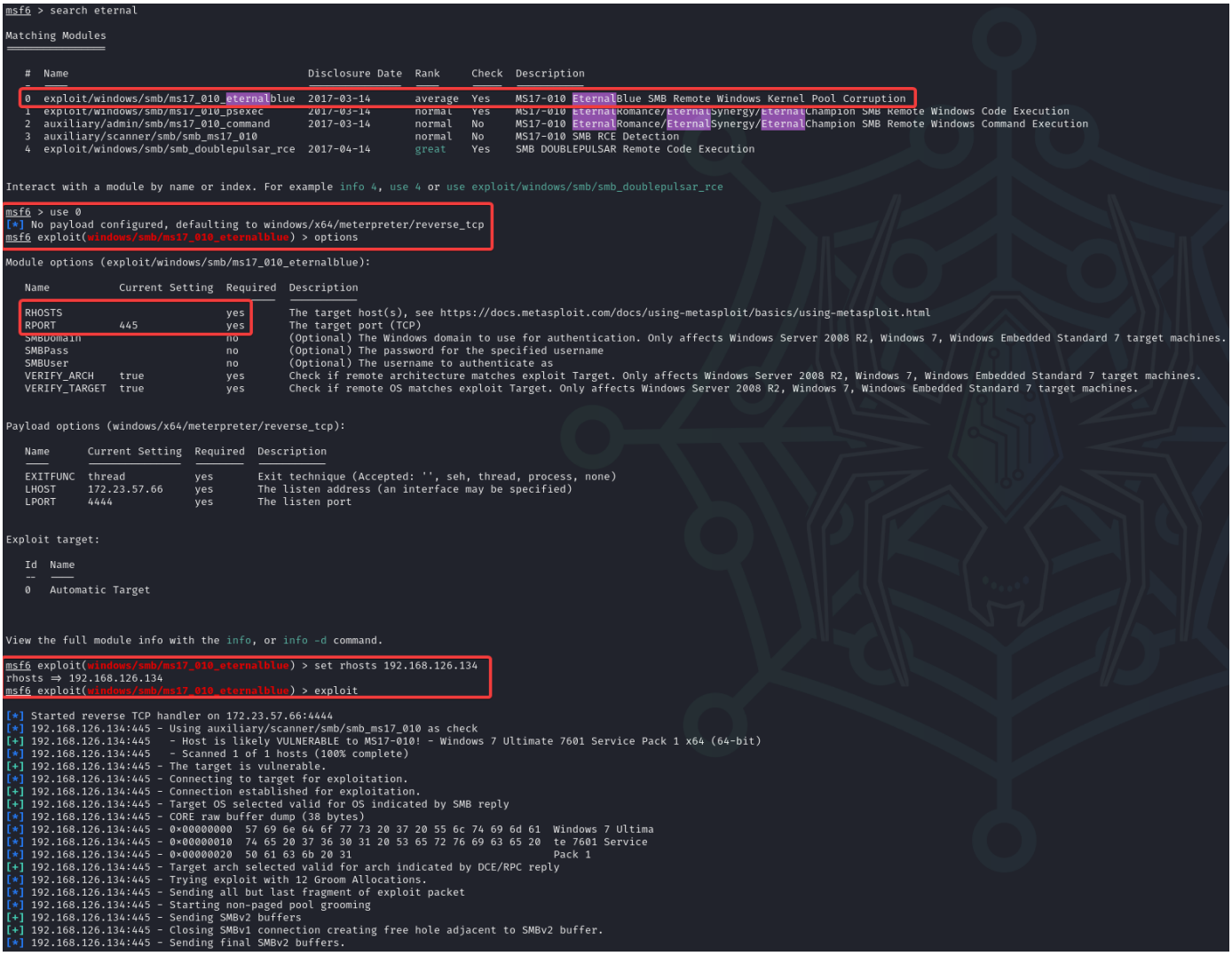
Attacking

Looking at our nmap scan we can see SMB(139 and 445) are open. As this is named blue - I'm going to assume this is named after EternalBlue

Metasploit

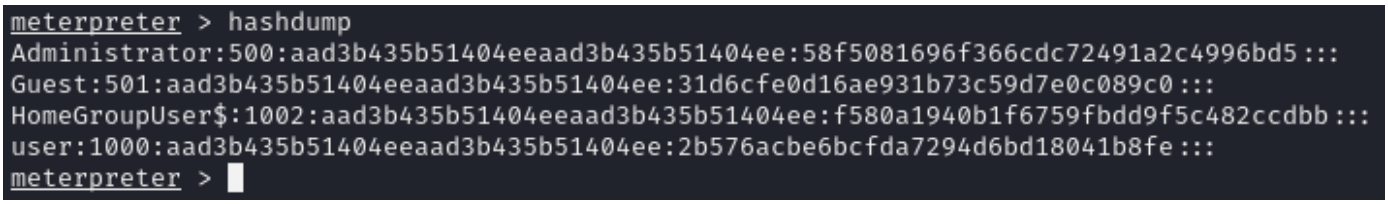
```
masfconsole -q
```

Searching for EternalBlue, use it, set it's options, and exploit it if possible.



We have our shell

From here - there's a lot we can do - First is grabbing the hashes on the machine with `hashdump`.




```
Administrator:500:aad3b435b51404eeaad3b435b51404ee:58f5081696f366cdc72491a2c
4996bd5:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:
::
HomeGroupUser$:1002:aad3b435b51404eeaad3b435b51404ee:f580a1940b1f6759fbdd9f5
```

```
c482ccdbb:::
user:1000:aad3b435b51404eeaad3b435b51404ee:2b576acbe6bcfda7294d6bd18041b8fe:
::
```

With these hashes we can try to crack or it pass the hash but as this is meant to be simple That's all there is to it.

Heaths Walkthrough for Blue

He goes more indepth on searching and talk about a tool that can be use called AutoBlue