

### User Regripper to find out when uTorrent could have been installed

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Registry_Files]
$ rip.pl -r NTUSER.DAT -p uninstall
Launching uninstall v.20200525
uninstall v.20200525
(Software, NTUSER.DAT) Gets contents of Uninstall keys from Software, NTUSER.DAT hives

Uninstall
Software\Microsoft\Windows\CurrentVersion\Uninstall

2021-03-21 20:39:08Z
  µTorrent v.3.5.5.45852

2021-03-21 20:08:31Z
  Microsoft OneDrive v.21.030.0211.0002
```

### Use grep to get relevant file paths for uTorrent

```
(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ grep -F 'uTorrent.exe' file_directory_original.csv | cut -f 1,2
r/r 205772-128-3:      Users/Kamryn/AppData/Roaming/uTorrent/uTorrent.exe
r/r 97182-128-4:      Users/Kamryn/Desktop/uTorrent.exe
r/r 97182-128-7:      Users/Kamryn/Desktop/uTorrent.exe:SmartScreen

(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$
```

### Use grep to search for torrent files

```
(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ grep -F '.torrent' file_directory_original.csv | cut -f 1,2
r/r 79927-128-4:      Users/Kamryn/AppData/Roaming/uTorrent/Contraband.mp3.torrent
r/r 79927-128-5:      Users/Kamryn/AppData/Roaming/uTorrent/Contraband.mp3.torrent:Zone.Identifier
r/r 206281-128-1:      Users/Kamryn/AppData/Roaming/uTorrent/Sample-1.mp3.torrent
r/r 55634-128-4:      Users/Kamryn/Downloads/Torrents/Contraband.mp3.torrent
r/r 55634-128-5:      Users/Kamryn/Downloads/Torrents/Contraband.mp3.torrent:Zone.Identifier
r/r 206280-128-4:      Users/Kamryn/Downloads/Torrents/Sample-1.mp3.torrent
```

### For torrent files on PC

- a. What was the original file?
  - i. Sample-1.mp3
  - ii. Contraband.mp3
- b. What trackers are on the torrent file?
  - i. Udp
  - ii. Http

**c. What torrent application created it?**

i. uTorrent

**d. When was the torrent file created?**

i. Contraband.mp3 file was created on 3/27/21 at 10:05:03 A.M.

ii. Sample-1.mp3 was created on 3/21/21 at 4:42:39 P.M

**Use icat to extract the torrent files**

```
(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ mkdir ../Exports/Torrents
mkdir: created directory '../Exports/Torrents'

(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 55634-128-4 >> ../Exports/Torrents/Contraband.mp3.torrent

(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 206280-128-4 >> ../Exports/Torrents/Sample-1.mp3.torrent

(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$
```

**Verify that you have genuine copies:**

Said to skip

**Verify that extracted files are same as ones in Users/Kamryn/AppData/Roaming/uTorrent:**

Said to skip

**Use torrent file editor to analyze the torrent file Sample-1.mp3.torrent:**

```
C:\windows\system32\cmd.exe
Microsoft Windows 10.0.19043

Z:\home\kali\Illegal_Download_Case\Exports\Torrents>start torrent-file-editor-1.0.0-x32.exe
Application could not be started, or no application associated with the specified file.
ShellExecuteEx failed: File not found.

Z:\home\kali\Illegal_Download_Case\Exports\Torrents>start torrent-file-editor-1.0.0-x32.exe Sample-1.mp3.torrent
Application could not be started, or no application associated with the specified file.
ShellExecuteEx failed: File not found.

Z:\home\kali\Illegal_Download_Case\Exports\Torrents>../torrent-file-editor-1.0.0-x32.exe

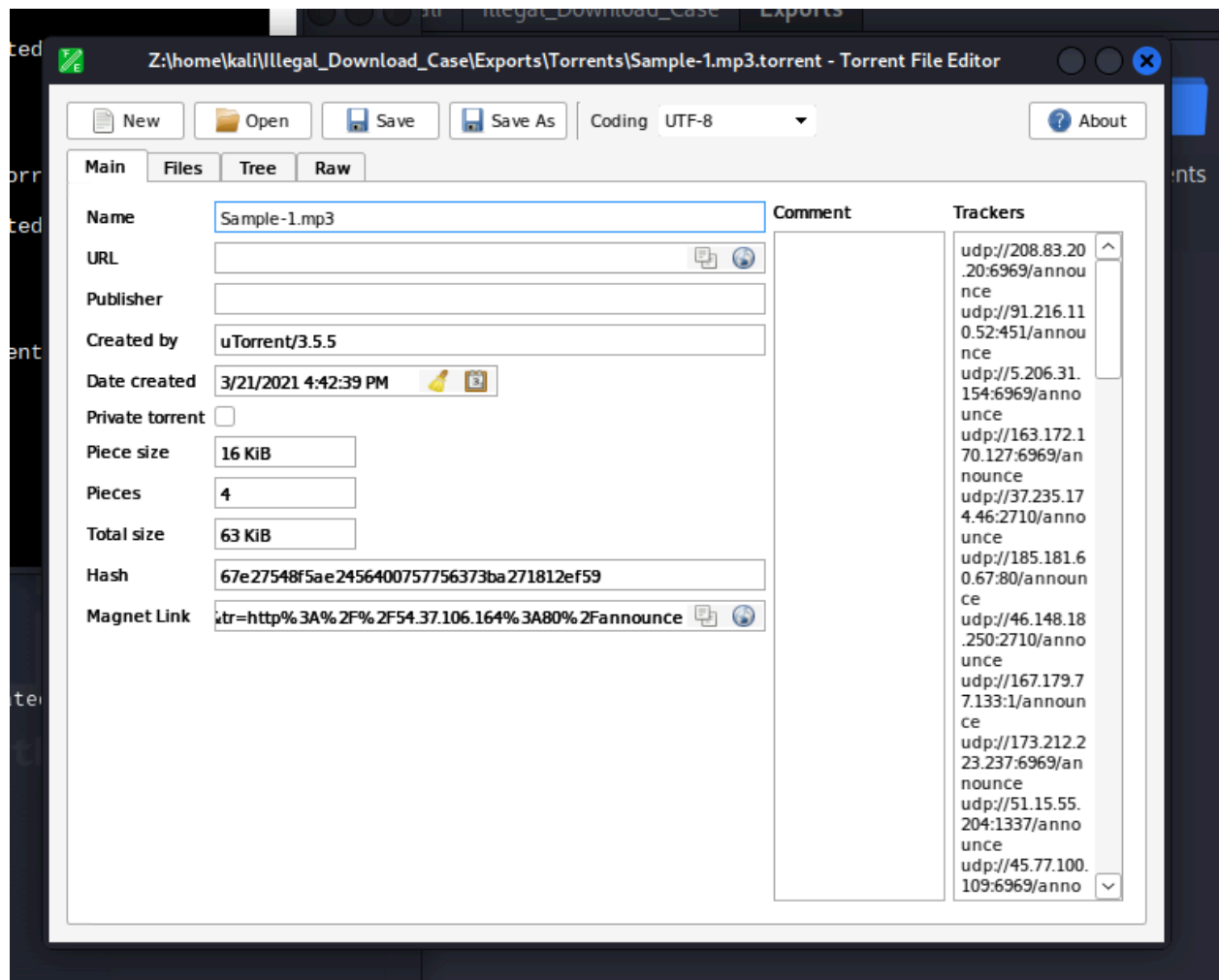
Z:\home\kali\Illegal_Download_Case\Exports\Torrents>

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrents]
$ wine start -h
Application could not be started, or no application associated with the specified file.
ShellExecuteEx failed: File not found.

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrents]
$ wine start

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrents]
$ sudo ls
[sudo] password for kali:
Contraband.mp3.torrent Sample-1.mp3.torrent
```

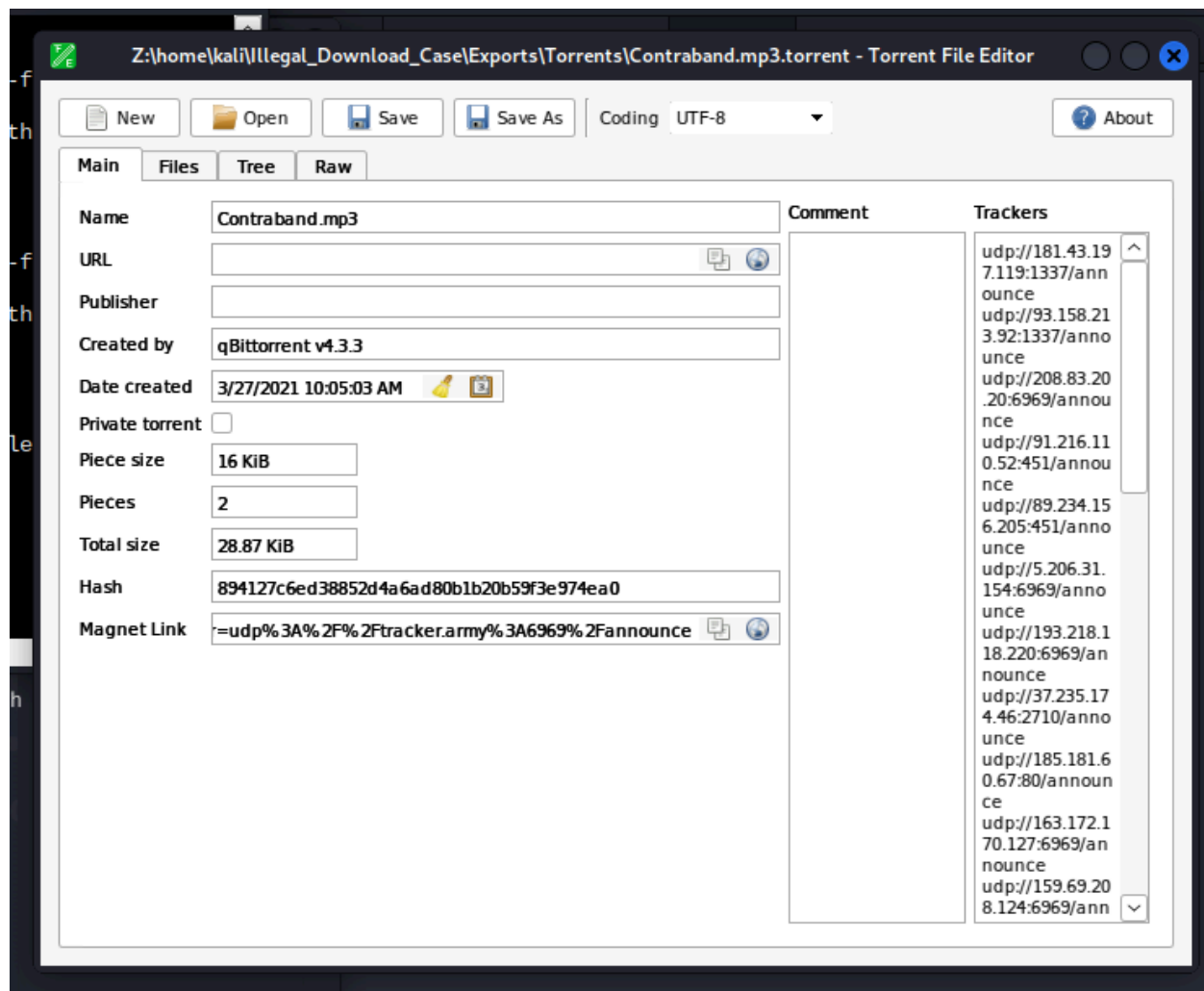
GUI will open, you should see:



Use Torrent File Editor to analyze the torrent file Contraband.mp3s:

See above

GUI will open, you should see:



Use grep to find the log file:

```
(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$ grep -F 'resume.dat' file_directory_original.csv | cut -f 1,2
r/r 85683-128-4:      Users/Kamryn/AppData/Roaming/uTorrent/resume.dat
r/r 88459-128-4:      Users/Kamryn/AppData/Roaming/uTorrent/resume.dat.old
-/r * 90123-128-4:    Users/Kamryn/AppData/Roaming/uTorrent/resume.dat.old
-/r * 99109-128-4:    Users/Kamryn/AppData/Roaming/uTorrent/resume.dat.old
-/r * 226141-128-4:   Users/Kamryn/AppData/Roaming/uTorrent/resume.dat.old
-/r * 226161-128-4:   Users/Kamryn/AppData/Roaming/uTorrent/resume.dat.old
-/r * 226178-128-4:   Users/Kamryn/AppData/Roaming/uTorrent/resume.dat.old

(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$
```

Use icat to extract the log file:

```
(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 85683-128-4 >> ../Exports/Torrents/resume.dat
```

Verify that you have a genuine copy:

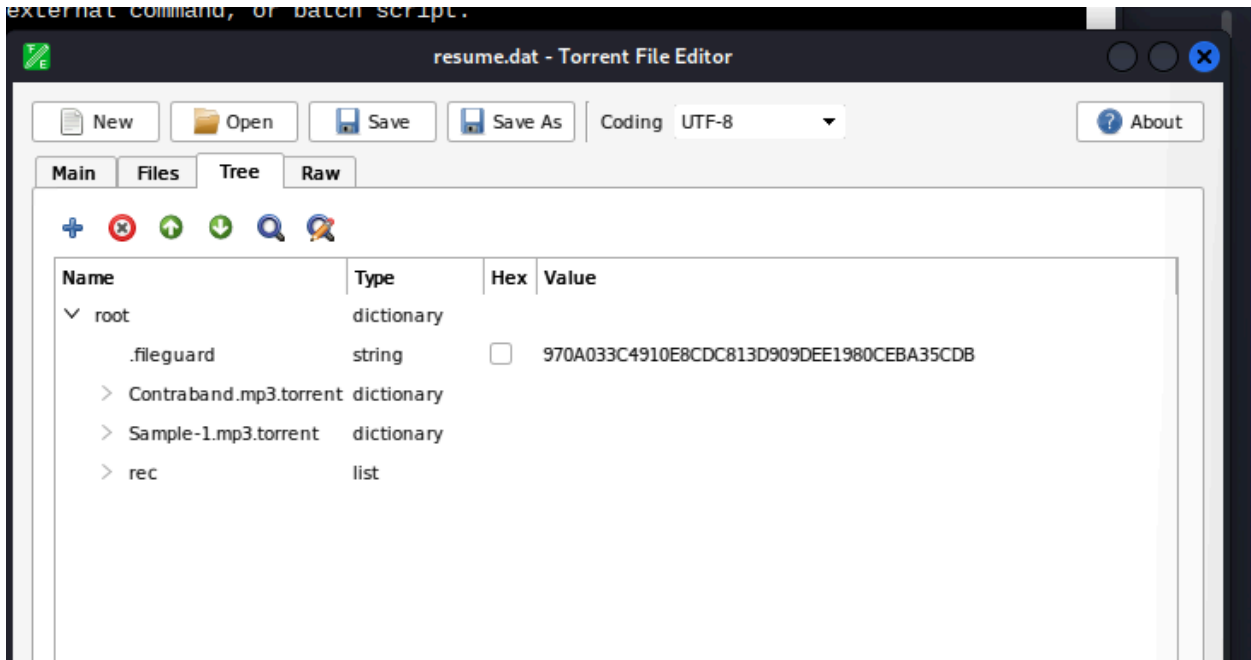
Said to skip

Use Torrent File Editor to analyze the log file:

```
-x32.exe
Z:\home\kali\Illegal_Download_Case\Exports\Torrents>../torrent-file-editor-1.0.0
-x32.exe resume.dat
```

Find out which torrent were added to uTorrent:

external command, or batch script.



Locate the peer information for both torrents:

Contraband.mp3.torrent

override_seedsettings	integer		0
parent_info	string	<input type="checkbox"/>	□□□□□□□□□□□□□□□□
path	string	<input type="checkbox"/>	C:\Users\Kamryn\Downloads\Contraband.mp3
peers6	string	<input checked="" type="checkbox"/>	00000000000000000000ffff0a00020fba3c00000000...
prio	string	<input type="checkbox"/>	□
prio2	integer		1
published_on	integer		0

Sample-1.mp3.torrent

override_seedsettings	integer		0
parent_info	string	<input type="checkbox"/>	□□□□□□□□□□□□□□□□
path	string	<input type="checkbox"/>	C:\Users\Kamryn\Downloads\Sample-1.mp3
peers6	string	<input checked="" type="checkbox"/>	00000000000000000000ffff0a00020fba3c00000000...
prio	string	<input type="checkbox"/>	□
prio2	integer		1
published_on	integer		0

Create a new text file to place the hex data in:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrents]
$ nano peers_hex_format.txt
```

Paste the hex data in the new text file:

```
GNU nano 7.2 peers_he
# For Contraband.mps.torrent
0000000000000000000000ffff0a00020fba3c
0000000000000000000000ffff7f000001ba3c
0000000000000000000000ffff49d468e951c7
0000000000000000000000ffff458f197eba3c

# For Sample-1.mp3.torrent
0000000000000000000000ffff0a00020fba3c
0000000000000000000000ffff7f000001ba3c
```

You should have a text file with these entries:

```
kali@kali: ~/Illegal_Download_Case/Exports/Torrents
File Actions Edit View Help
GNU nano 7.2 peers_hex_format.txt *
# For Contraband.mps.torrent
000000000000000000000000ffff0a00020f3cba → 0a 00 02 0f 3cba
000000000000000000000000ffff7f000001ba3c → 7f 00 01 3cba
000000000000000000000000ffff49d468e9c751 → 49 d4 68 e9 c751
000000000000000000000000ffff458f197eba3c → 45 8f 19 7e 3cba

# For Sample-1.mp3.torrent
000000000000000000000000ffff0a00020f3cba → 0a 00 02 0f 3cba
000000000000000000000000ffff7f000001ba3c → 7f 00 00 01 3cba
```

Write a python script to convert from hex to decimal number:

```
(kali@kali)-[~/Illegal_Download_Case/Exports/Torrents]
$ python3
Python 3.12.6 (main, Sep 7 2024, 14:20:15) [GCC 14.2.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> peer1 = ["0a", "00", "02", "0f", "3cba"]
>>> for x in peer1:
...     result = int(x, 16)
...     print(result)
...
10
0
2
15
15546
>>>
```

These are the IP addresses and port numbers for each peer:

```
File Actions Edit View Help
GNU nano 7.2 peers.txt
# Peers for Contraband.mp3.torrent

Peer 1:
IP address → 10.0.2.15
Port number → 15,546

Peer 2:
IP address → 127.0.0.1
Port number → 15,546

Peer 3:
IP address → 73.212.104.233
Port number → 51,025

Peer 4:
IP address → 69.143.25.126
Port number → 15,546

# Peers for Sample-1.mp3.torrents

Peer 1:
IP address → 10.0.2.15
Port number → 15,546

Peer 2:
IP address → 127.0.0.1
Port number → 15,546
```

Use Regripper to find the IP address of Kamryn's system:

```
(kali@kali)-[~/Illegal_Download_Case/Exports/Registry_Files]
$ rip.pl -r SYSTEM -p ips
Launching ips v.20200518
ips v.20200518
(System) Get IP Addresses and domains (DHCP,static)

IPAddress          Domain
10.0.2.15           hsd1.md.comcast.net   Hint:
```