

File Directory in Edge's history file:

```
-/r * 101800-128-4: $OrphanFiles/ResiliencyLinks/msedge.exe.sig.DAT
(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$ cat file_directory_original.csv | grep -i 'edge' | grep -F 'History' | cut -f 1,2
r/r 94798-128-3: Users/Kamryn/AppData/Local/Microsoft/Edge/User Data/Default/History
r/r 116120-128-4: Users/Kamryn/AppData/Local/Microsoft/Edge/User Data/Default/History Provider Cache
r/r 94818-128-4: Users/Kamryn/AppData/Local/Microsoft/Edge/User Data/Default/History-journal
r/r 109066-128-4: Users/Kamryn/AppData/Local/Microsoft/Edge/User Data/Default/Media History
r/r 94812-128-4: Users/Kamryn/AppData/Local/Microsoft/Edge/User Data/Default/Media History-journal
d/d 44447-144-1: Users/Kamryn/AppData/Local/Packages/Microsoft.MicrosoftEdge.Stable_8wekyb3d8bbwe/AC/INetHistory
d/d 93500-144-1: Users/Kamryn/AppData/Local/Packages/Microsoft.MicrosoftEdge.Stable_8wekyb3d8bbwe/AC/INetHistory
```

File directory csv file to locate history file for internet explorer:

```
(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$ cat file_directory_original.csv | grep -F 'WebCache' | cut -f 1,2
d/d 94594-144-5: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache
r/r 94612-128-3: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V01.chk
r/r 94608-128-3: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V01.log
r/r 96246-128-3: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V0100034.log
r/r 205947-128-3: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V0100035.log
r/r 206075-128-3: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V0100036.log
r/r 94604-128-4: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V01res00001.jrs
r/r 94611-128-4: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V01res00002.jrs
r/r 206586-128-3: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/V01tmp.log
r/r 94619-128-4: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/WebCacheV01.dat
r/r 94618-128-4: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCache/WebCacheV01.jfm
r/r 94595-128-1: Users/Kamryn/AppData/Local/Microsoft/Windows/WebCacheLock.dat
```

Use icat to extract history files:

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

(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 94798-128-3 >> ../Exports/Web_History/History
zsh: no such file or directory: ../Exports/Web_History/History

(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 94798-128-3 >> ../Exports/Web_History/History

(kali@kali)-[~/Illegal_Download_Case/Reference_Files]
$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 94619-128-4 >> ../Exports/Web_History/WebCacheV01.dat

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

Verify you have history files:

```
(kali㉿kali)-[~/Illegal_Download_Case/Reference_Files]
$ cd ../Exports/Web_History

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ sudo ls
[sudo] password for kali:
History  WebCacheV01.dat

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

Use strings to look through the Internet Explorer's History:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ strings WebCacheV01.dat | grep -i 'http' | more -10
http://ocsp.digicert.com00
4http://cacerts.digicert.com/DigiCertGlobalRootG2.crt0{
1http://crl3.digicert.com/DigiCertGlobalRootG2.crl07
1http://crl4.digicert.com/DigiCertGlobalRootG2.crl0
ahttp://www.microsoft.com/pkiops/certs/Microsoft%20Azure%20TLS%20Issuing%20CA%2005%20-%20xsign.cr
t0-
!http://oneocsp.microsoft.com/ocsp0
Shttp://www.microsoft.com/pkiops/crl/Microsoft%20Azure%20TLS%20Issuing%20CA%2005.crl0f
3http://www.microsoft.com/pkiops/Docs/Repository.htm0
http://ocsp.digicert.com00
4http://cacerts.digicert.com/DigiCertGlobalRootG2.crt0{
1http://crl3.digicert.com/DigiCertGlobalRootG2.crl07
1http://crl4.digicert.com/DigiCertGlobalRootG2.crl0
--More--
```

Using sqlite to open Edge's History file in read only mode:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ sqlite3 History -readonly
SQLite version 3.46.0 2024-05-23 13:25:27
Enter ".help" for usage hints.
sqlite>
```

Using .tables to figure out what tables are in history file:

```
sqlite> .tables
downloads          meta               urls
downloads_slices   segment_usage      visit_source
downloads_url_chains  segments           visits
keyword_search_terms typed_url_sync_metadata
sqlite>
```

Use .schema to determine what fields are in the urls table:

```
sqlite> .schema urls
CREATE TABLE urls(id INTEGER PRIMARY KEY AUTOINCREMENT,url LONGVARCHAR,title LONGVARCHAR,visit_count INTEGER DEFAULT 0 NOT NULL,typed_count INTEGER DEFAULT 0 NOT NULL,last_visit_time INTEGER NOT NULL,hidden INTEGER DEFAULT 0 NOT NULL);
CREATE INDEX urls_url_index ON urls (url);
sqlite>
```

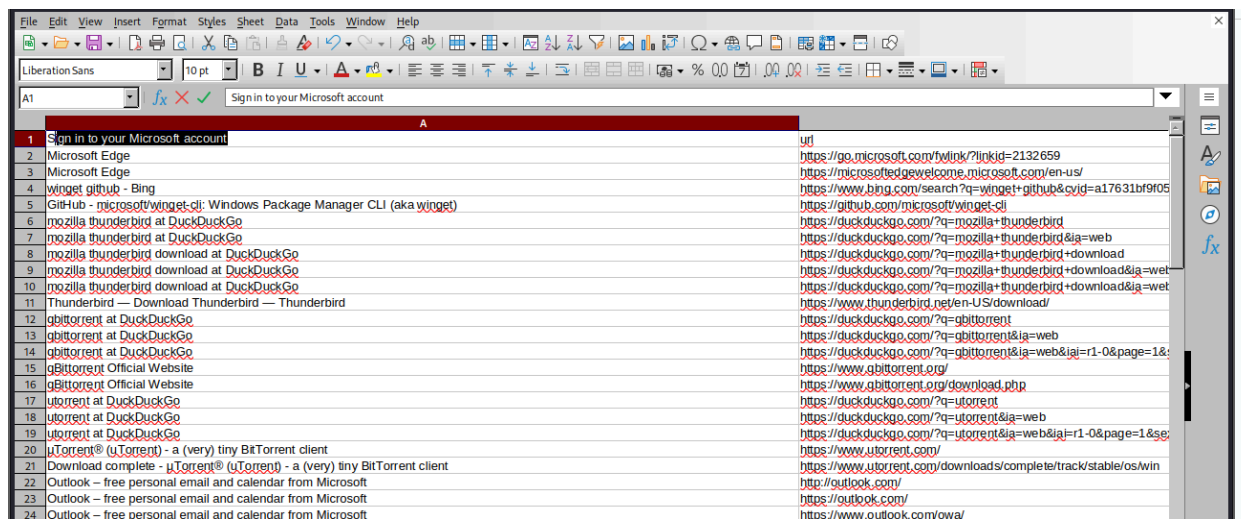
Export Edge's history to a csv file:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ sqlite3 History
SQLite version 3.46.0 2024-05-23 13:25:27
Enter ".help" for usage hints.
sqlite> .header on
sqlite> .mode csv
sqlite> .output edge_history_original.csv
sqlite> select
...> title, url, datetime(last_visit_time / 1000000 * (strftime('%s', '1601-01-01')), 'unixepoch')
...> from urls;
sqlite> .quit
Error: unknown command or invalid arguments: ".quit". Enter ".help" for help
sqlite> ls
...> .quit
...> ^C
...> .quit
...> .quit;
Parse error: near "ls": syntax error
ls .quit .quit .quit;
^__ error here
sqlite> .quit

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ ls
edge_history_original.csv History WebCacheV01.dat

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

Use LibreOffice Calc to open csv file:



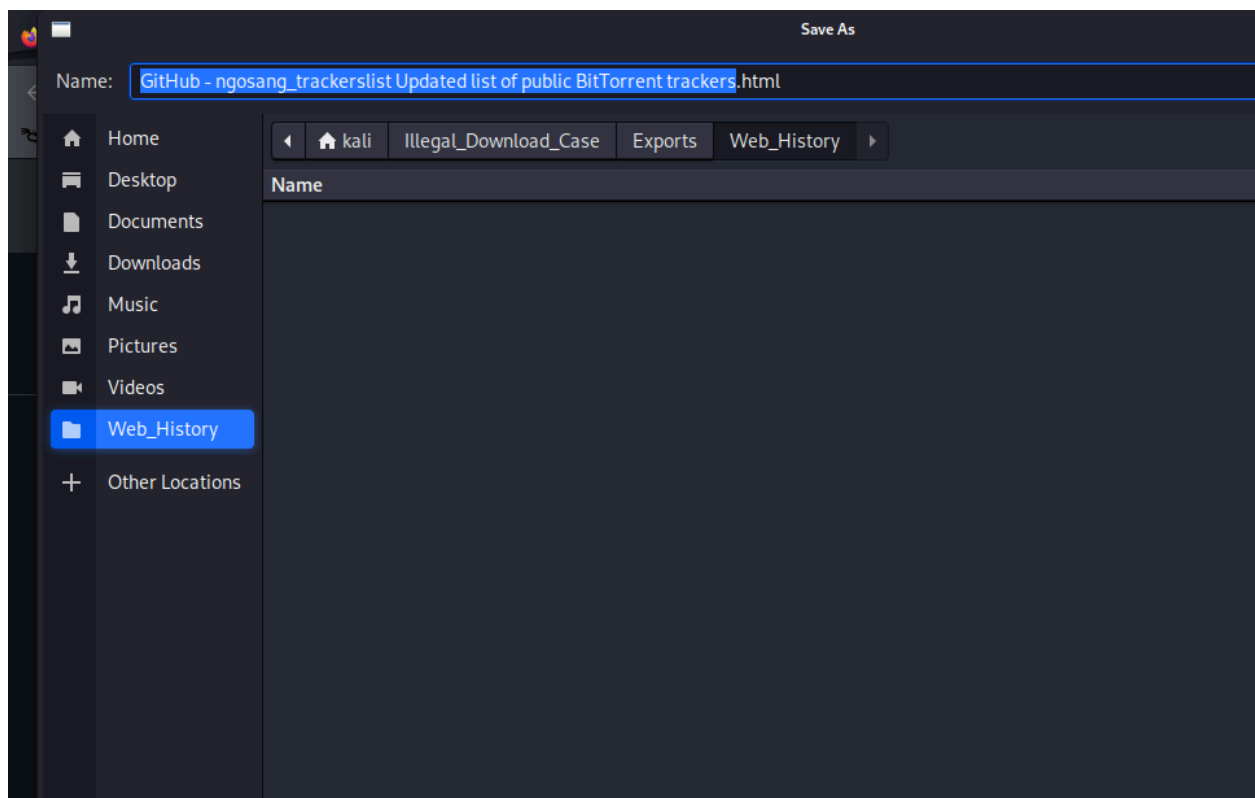
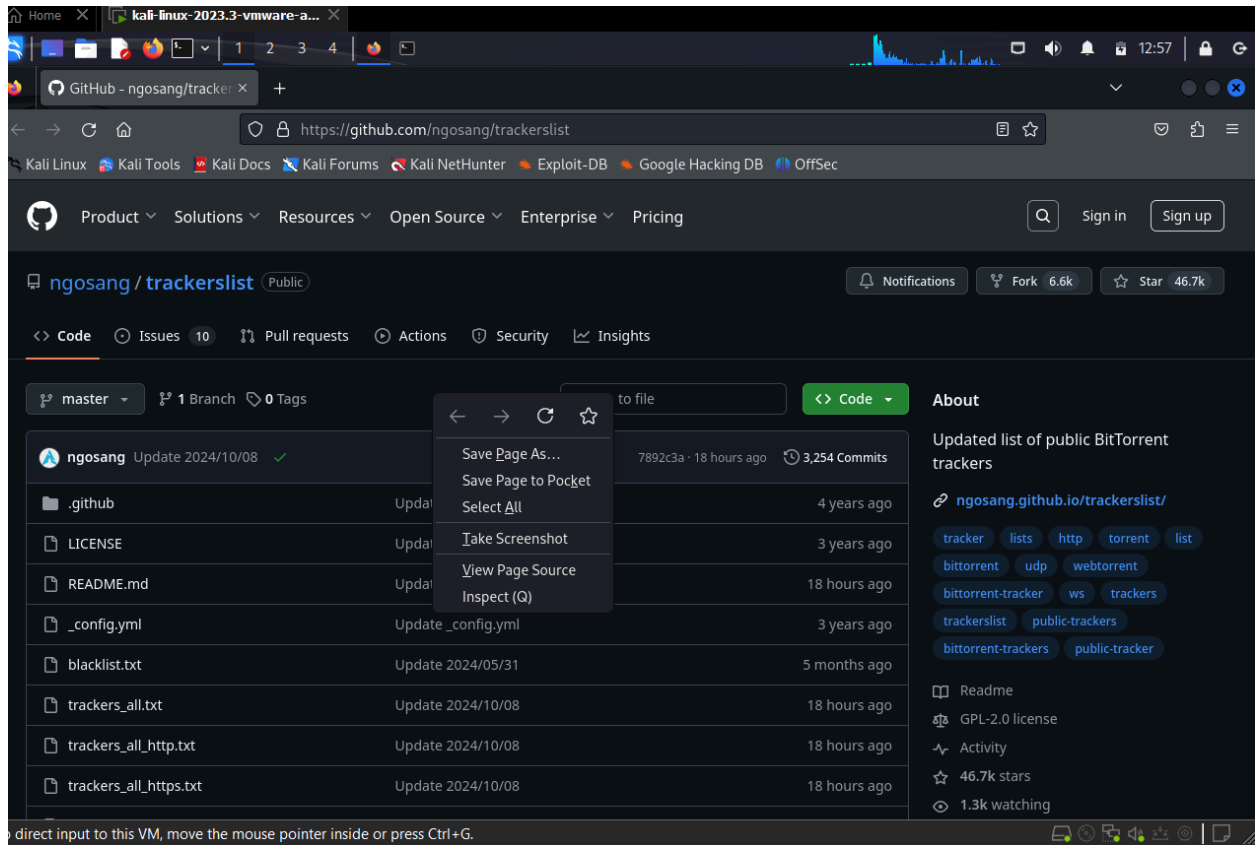
	A	url
1	Sign in to your Microsoft account	
2	Microsoft Edge	https://go.microsoft.com/fwlink/?linkid=2132659
3	Microsoft Edge	https://microsoftedgewelcome.microsoft.com/en-us/
4	winget github - Bing	https://www.bing.com/search?q=winget+github&cid=a17631bf9f05
5	GitHub - microsoft/winget-cli: Windows Package Manager CLI (aka winget)	https://github.com/microsoft/winget-cli
6	mozilla thunderbird at DuckDuckGo	https://duckduckgo.com/?q=mozilla+thunderbird
7	mozilla thunderbird at DuckDuckGo	https://duckduckgo.com/?q=mozilla+thunderbird&ia=web
8	mozilla thunderbird download at DuckDuckGo	https://duckduckgo.com/?q=mozilla+thunderbird+download
9	mozilla thunderbird download at DuckDuckGo	https://duckduckgo.com/?q=mozilla+thunderbird+download&ia=web
10	mozilla thunderbird download at DuckDuckGo	https://duckduckgo.com/?q=mozilla+thunderbird+download&ia=web
11	Thunderbird — Download Thunderbird — Thunderbird	https://www.thunderbird.net/en-US/download/
12	qbittorrent at DuckDuckGo	https://duckduckgo.com/?q=qbittorrent
13	qbittorrent at DuckDuckGo	https://duckduckgo.com/?q=qbittorrent&ia=web
14	qbittorrent at DuckDuckGo	https://duckduckgo.com/?q=qbittorrent&ia=web&iaj=r1-0&page=1&
15	qBittorrent Official Website	https://www.qbittorrent.org/
16	qBittorrent Official Website	https://www.qbittorrent.org/download.php
17	utorrent at DuckDuckGo	https://duckduckgo.com/?q=utorrent
18	utorrent at DuckDuckGo	https://duckduckgo.com/?q=utorrent&ia=web
19	utorrent at DuckDuckGo	https://duckduckgo.com/?q=utorrent&ia=web&iaj=r1-0&page=1&se
20	µTorrent® (uTorrent) - a (very) tiny BitTorrent client	https://www.utorrent.com/
21	Download complete - µTorrent® (uTorrent) - a (very) tiny BitTorrent client	https://www.utorrent.com/downloads/complete/track/stable/os/win
22	Outlook – free personal email and calendar from Microsoft	http://outlook.com/
23	Outlook – free personal email and calendar from Microsoft	https://outlook.com/
24	Outlook – free personal email and calendar from Microsoft	https://www.outlook.com/owa/

Analyze the history file in the terminal:

```
(kali@kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ cat edge_history_original.csv | grep -i 'torrent'
"qbittorrent at DuckDuckGo",https://duckduckgo.com/?q=qbittorrent,"2021-03-10 00:28:12"
"qbittorrent at DuckDuckGo",https://duckduckgo.com/?q=qbittorrent&ia=web,"2021-03-10 00:28:14"
"qbittorrent at DuckDuckGo",https://duckduckgo.com/?q=qbittorrent&ia=web&iai=r1-0&page=1&sexp=%7B%22cdrexp%22%3A%22b%22%2C%22artexp%22%3A%22b%22%2C%22prodexp%22%3A%22b%22%2C%22prdsdexp%22%3A%22c%22%2C%22biaexp%22%3A%22b%22%2C%22msvrteexp%22%3A%22b%22%7D","2021-03-10 00:28:15"
"qBittorrent Official Website",https://www.qbittorrent.org/,"2021-03-10 00:28:15"
"qBittorrent Official Website",https://www.qbittorrent.org/download.php,"2021-03-10 00:28:27"
"utorrent at DuckDuckGo",https://duckduckgo.com/?q=utorrent,"2021-03-10 00:28:51"
"utorrent at DuckDuckGo",https://duckduckgo.com/?q=utorrent&ia=web,"2021-03-10 00:28:52"
"utorrent at DuckDuckGo",https://duckduckgo.com/?q=utorrent&ia=web&iai=r1-0&page=1&sexp=%7B%22cdrexp%22%3A%22b%22%2C%22artexp%22%3A%22b%22%2C%22prodexp%22%3A%22b%22%2C%22prdsdexp%22%3A%22c%22%2C%22biaexp%22%3A%22b%22%2C%22msvrteexp%22%3A%22b%22%2C%22videxp%22%3A%22a%22%7D","2021-03-10 00:28:55"
"µTorrent® (uTorrent) - a (very) tiny BitTorrent client",https://www.utorrent.com/,"2021-03-10 00:28:55"
"Download complete - µTorrent® (uTorrent) - a (very) tiny BitTorrent client",https://www.utorrent.com/downloads/complete/track/stable/os/win,"2021-03-10 00:29:50"
"bittorrent tracker list at DuckDuckGo",https://duckduckgo.com/?q=bittorrent+tracker+list,"2021-03-21 20:22:45"
"bittorrent tracker list at DuckDuckGo",https://duckduckgo.com/?q=bittorrent+tracker+list&ia=software,"2021-03-21 20:22:46"
"bittorrent tracker list at DuckDuckGo",https://duckduckgo.com/?q=bittorrent+tracker+list&ia=software&iai=r1-0&page=1&sexp=%7B%22cdrexp%22%3A%22b%22%2C%22prodexp%22%3A%22b%22%2C%22prdsdexp%22%3A%22c%22%2C%22biaexp%22%3A%22b%22%2C%22msvrteexp%22%3A%22b%22%7D","2021-03-21 20:22:51"
"GitHub - ngosang/trackerslist: Updated list of public BitTorrent trackers",https://github.com/ngosang/trackerslist,"2021-03-21 20:22:51"
"Product News - µTorrent® (uTorrent) - a (very) tiny BitTorrent client",http://utorrent.com/prodnews?v=3%2e5%2e5%2e1%2e45852,"2021-03-21 20:39:55"
"Product News - µTorrent® (uTorrent) - a (very) tiny BitTorrent client",http://www.utorrent.com/prodnews?v=3%2e5%2e5%2e1%2e45852,"2021-03-21 20:39:55"
"Product News - µTorrent® (uTorrent) - a (very) tiny BitTorrent client",https://www.utorrent.com/prodnews?v=3%2e5%2e5%2e1%2e45852,"2021-03-21 20:39:55"
```

View and save the github page for your records:

```
(kali@kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ firefox --new-window 'https://github.com/ngosang/trackerslist'
```



Use sqlite3 to get downloads:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ sqlite3 History --readonly
SQLite version 3.46.0 2024-05-23 13:25:27
Enter ".help" for usage hints.
sqlite> .schema downloads
CREATE TABLE downloads (id INTEGER PRIMARY KEY, guid VARCHAR NOT NULL, current_path LONGVARCHAR NOT
NULL, target_path LONGVARCHAR NOT NULL, start_time INTEGER NOT NULL, received_bytes INTEGER NOT NUL
L, total_bytes INTEGER NOT NULL, state INTEGER NOT NULL, danger_type INTEGER NOT NULL, interrupt_reas
on INTEGER NOT NULL, hash BLOB NOT NULL, end_time INTEGER NOT NULL, opened INTEGER NOT NULL, last_acc
ess_time INTEGER NOT NULL, transient INTEGER NOT NULL, referrer VARCHAR NOT NULL, site_url VARCHAR N
OT NULL, tab_url VARCHAR NOT NULL, tab_referrer_url VARCHAR NOT NULL, http_method VARCHAR NOT NULL, b
y_ext_id VARCHAR NOT NULL, by_ext_name VARCHAR NOT NULL, etag VARCHAR NOT NULL, last_modified VARCHA
R NOT NULL, mime_type VARCHAR(255) NOT NULL, original_mime_type VARCHAR(255) NOT NULL);
sqlite> █
```

Export Edge's download history to a csv file:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ sqlite3 History
SQLite version 3.46.0 2024-05-23 13:25:27
Enter ".help" for usage hints.
sqlite> .header on
sqlite> .mode csv
sqlite> .output edge_downloads.csv
sqlite> select
...> tab_url, target_path, received_bytes, total_bytes,
...> datetime(start_time / 1000000 + (strftime('%s', '1601-01-01')), 'unixepoch'),
...> datetime(end_time / 1000000 + (strftime('%s', '1601-01-01')), 'unixepoch'),
...> datetime(last_access_time / 1000000 + (strftime('%s', '1601-01-01')), 'unixepoch')
...> from downloads;
sqlite> .quit

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ ls
edge_downloads.csv
edge_history_original.csv
'GitHub - ngosang_trackerslist Updated list of public BitTorrent trackers_files'
'GitHub - ngosang_trackerslist Updated list of public BitTorrent trackers.html'
History
WebCacheV01.dat

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ █
```

Look at edges download history in the terminal:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ cat edge_downloads.csv | grep -i 'torrent'
https://www.utorrent.com/downloads/complete/track/stable/os/win,C:\Users\Kamryn\Downloads\utorren
t.exe,4954408,4954408,"2021-03-10 00:29:51","2021-03-10 00:30:02","1601-01-01 00:00:00"

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Web_History]
$ █
```

Reference the MFT timeline to search for the 'List-' text files:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
└─$ grep -F 'List-' mft_timeline_condensedf.csv
Sun 03 21 2021 20:25:45," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/List-1.lnk"
Sun 03 21 2021 20:25:45," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/List-1.lnk ($FILE_NAME)"
Sun 03 21 2021 20:25:45," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-1.txt"
Sun 03 21 2021 20:25:45," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-1.txt ($FILE_NAME)"
Sun 03 21 2021 20:25:46," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-1.txt"
Sun 03 21 2021 20:25:46," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-1.txt ($FILE_NAME)"
Sun 03 21 2021 20:26:16," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/List-2.lnk"
Sun 03 21 2021 20:26:16," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/List-2.lnk ($FILE_NAME)"
Sun 03 21 2021 20:26:16," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-2.txt"
Sun 03 21 2021 20:26:16," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-2.txt ($FILE_NAME)"
Sun 03 21 2021 20:26:41," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/List-3.lnk"
Sun 03 21 2021 20:26:41," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/AppData/Roaming/Microsoft/Windows/Recent/List-3.lnk ($FILE_NAME)"
Sun 03 21 2021 20:26:41," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-3.txt"
Sun 03 21 2021 20:26:41," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-3.txt ($FILE_NAME)"
Sun 03 21 2021 20:26:42," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-3.txt"
Sun 03 21 2021 20:26:42," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-3.txt ($FILE_NAME)"
Sun 03 21 2021 20:26:42," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-3.txt"
Sun 03 21 2021 20:26:42," .. / ../Case_Materials/Disk_Image_ID-20210327.001/Users/Kamryn/Documents/Reference/List-3.txt ($FILE_NAME)"
```

Extract the text files:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
└─$ mkdir ../Torrent_Tracker_Lists
mkdir: created directory '../Torrent_Tracker_Lists'

(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
└─$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 215259-128-1 >> ../Torrent_Tracker_Lists/List-1.txt

(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
└─$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 217188-128-3 >> ../Torrent_Tracker_Lists/List-2.txt

(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
└─$ icat -o 104448 ../Case_Materials/Disk_Image_ID-20210327.001 218931-128-3 >> ../Torrent_Tracker_Lists/List-3.txt

(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
└─$
```

Look at the text files:

```
(kali㉿kali)-[~/Illegal_Download_Case/Exports/MFT]
$ cd ../Torrent_Tracker_Lists

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrent_Tracker_Lists]
$ head -10 List-1.txt
udp://208.83.20.20:6969/announce
udp://91.216.110.52:451/announce
udp://5.206.31.154:6969/announce
udp://163.172.170.127:6969/announce
udp://37.235.174.46:2710/announce

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrent_Tracker_Lists]
$ head -10 List-2.txt
udp://93.158.213.92:1337/announce
http://93.158.213.92:1337/announce
udp://208.83.20.20:6969/announce
udp://91.216.110.52:451/announce
udp://5.206.31.154:6969/announce

(kali㉿kali)-[~/Illegal_Download_Case/Exports/Torrent_Tracker_Lists]
$ head -10 List-3.txt
udp://tracker.opentrackr.org:1337/announce
udp://exodus.desync.com:6969/announce
udp://www.torrent.eu.org:451/announce
udp://tracker.torrent.eu.org:451/announce
udp://tracker.tiny-vps.com:6969/announce
```