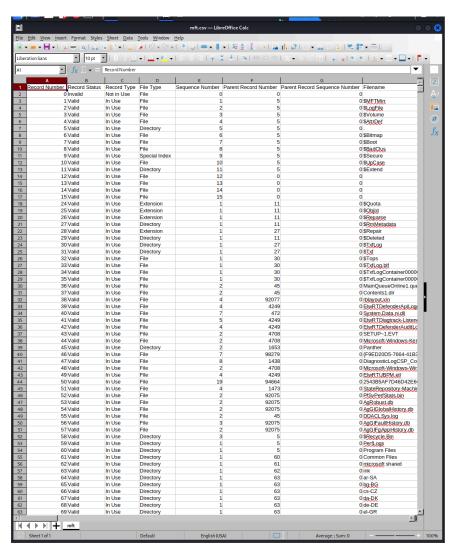
# **Extracting MFT**

# Parsing the MFT



**Opening mft.csv** 



Using istat

```
kali@kali: ~/Illegal_Download_Case/Exports/MFT/analyzeMFT
File Actions Edit View Help
MFT Entry Header Values:
Entry: 0 Sequence: 1
$LogFile Sequence Number: 625197676
Allocated File
Links: 1
$STANDARD_INFORMATION Attribute Values:
Flags: Hidden, System
Owner ID: 0
Security ID: 256
Created: 2021-03-10 02:58:35.077084300 (UTC)
File Modified: 2021-03-10 02:58:35.077084300 (UTC)
MFT Modified: 2021-03-10 02:58:35.077084300 (UTC)
                  2021-03-10 02:58:35.077084300 (UTC)
Accessed:
$FILE_NAME Attribute Values:
Flags: Hidden, System
Name: $MFT
Parent MFT Entry: 5
                           Sequence: 5
                                    Actual Size: 16384
Allocated Size: 16384
                2021-03-10 02:58:35.077084300 (UTC)
Created:
File Modified: 2021-03-10 02:58:35.077084300 (UTC)
MFT Modified: 2021-03-10 02:58:35.077084300 (UTC)
                  2021-03-10 02:58:35.077084300 (UTC)
Accessed:
Attributes:
Type: $STANDARD_INFORMATION (16-0) Name: N/A Resident
Type: $FILE_NAME (48-3) Name: N/A Resident size: 74
                                                                    size: 72
Type: $DATA (128-6) Name: N/A Non-Resident size: 2786432 786433 786434 786435 786436 786437 786438 786439
                                                         size: 231735296 init_size: 231735296
786440 786441 786442 786443 786444 786445 786446 786447
786448 786449 786450 786451 786452 786453 786454 786455
786456 786457 786458 786459 786460 786461 786462 786463
786464 786465 786466 786467 786468 786469 786470 786471
786472 786473 786474 786475 786476 786477 786478 786479
786480 786481 786482 786483 786484 786485 786486 786487
786488 786489 786490 786491 786492 786493 786494 786495
786496 786497 786498 786499 786500 786501 786502 786503
786504 786505 786506 786507 786508 786509 786510 786511
786512 786513 786514 786515 786516 786517 786518 786519
786520 786521 786522 786523 786524 786525 786526 786527
786528 786529 786530 786531 786532 786533 786534 786535
786536 786537 786538 786539 786540 786541 786542 786543
786544 786545 786546 786547 786548 786549 786550 786551
786552 786553 786554 786555 786556 786557 786558 786559
786560 786561 786562 786563 786564 786565 786566 786567
```

## **Searching for files of interest in the \$MFT**

```
788072 788073 788074 788075 788076 788077 788078 788079

(kali@kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]

$ head -1 mft.csv | cut -d ',' -f 1,3,4,8 66 cat mft.csv | grep -E 'Contraband|Sample=|List=|to rrent=|Torrent'| cut -d ',' -f 1,3,4,8 | more -1

Record Number, Record Type, File Type, Filename

52901, In Use, File, Contraband.mp3 lnk

5201, In Use, File, Contraband.mp3.torrent

79927, In Use, File, Contraband.mp3.torrent

79968, In Use, File, Contraband.mp3

80800, In Use, File, Contraband.lnk

83475, In Use, File, Contraband.lnk

83475, In Use, File, Torrent-Sources.lnk

83835, In Use, Directory, Torrent-Sources

97075, In Use, Directory, Torrent-Sources

205675, In Use, Directory, Torrent

205779, In Use, Directory, Torrent

205779, In Use, File, UTorrent.exe

205774, In Use, File, UTorrent.exe

205774, In Use, File, UTorrent.exe

205774, In Use, File, UTorrent.exe
```

```
(kali® kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]
$ head -1 mft.csv | cut -d ',' -f 1,3,4,8 % cat mft.csv | grep -E 'Contraband|Sample-|List-|to rrent-|Torrent' | cut -d ',' -f 1,3,4,8 | more -2
Record Number, Record Type, File Type, Filename
52901, In Use, File, Contraband.mp3
54027, In Use, File, Contraband.mp3.lnk
--More--
```

### Generate a body file

```
-(kali®kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]
spython3 analyzeMFT.py -f /home/kali/Illegal_Download_Case/Exports/MFT/MFT -o mft.body
MFT processing complete. Total records processed: 226304
Writing output in csv format to mft.body
MFT Analysis Statistics:
Total records processed: 226304
Active records: 223851
Directories: 59002
Files: 167302
Analysis complete. Results written to mft.body
  —(kali®kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]
analyzeMFT.py
                LICENSE.txt pyproject.toml
                                                   requirements.txt tests
                mft.body
                             README.md
CHANGES.md
                                                   setup.py
                                                                    USAGE.md
CONTRIBUTING.MD mft.csv
                             requirements-dev.txt src
```

#### **Generate timeline of MFT entries**

### **Analyze timeline**

```
(kali@ kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]
$ echo -e 'Date and Time\tFile' >> mft_timeline_condensed.csv

(kali@ kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]
$ cat mft_timeline_original.csv | grep -E 'Contraband|Sample | torrent|Torrent|Thunderbird|List-' | cut -d ',' -f 1,8 >> mft_timeline_condensed.csv

(kali@ kali)-[~/Illegal_Download_Case/Exports/MFT/analyzeMFT]
$ libreoffice mft_timeline_condensed.csv
```

Analyze timeline for files of interest in terminal