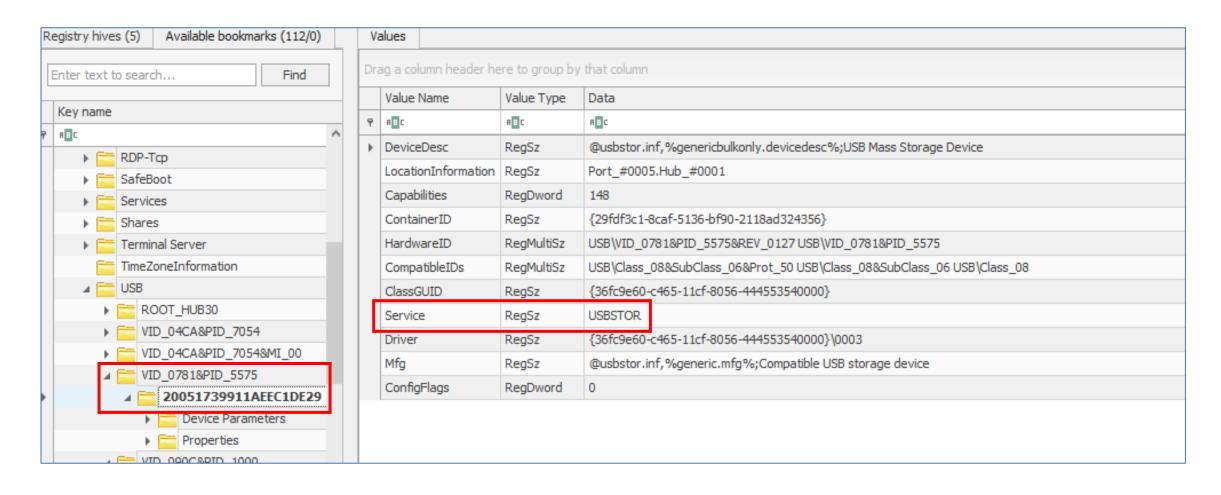
USB Device Analysis

- Identify connected USB Devices
- USB Device information
 - Vendor
 - Model
 - Firmware Revision
 - Physical Serial Number
 - First usage
 - Last usage
 - Volume name
 - Volume Serial Number
- Source of information
 - Registry
 - SYSTEM, SOFTWARE, NTUSER.DAT
 - Shell Items

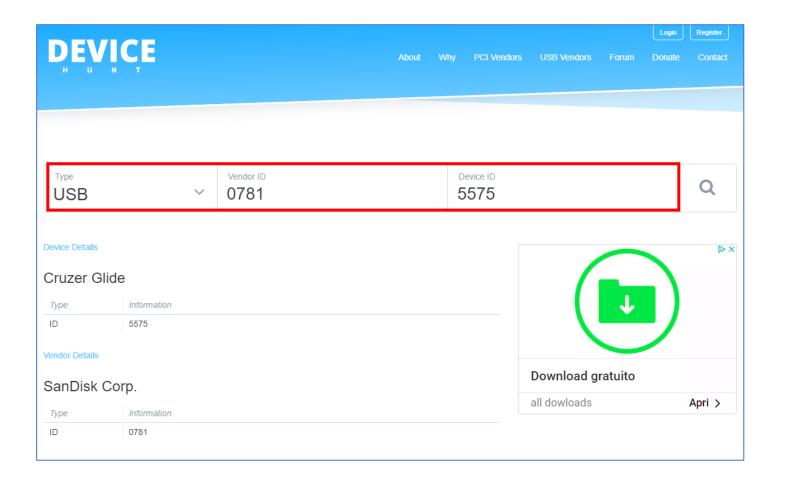
USB – Vendor ID – Product ID - Physical S/N

SYSTEM\Current Control Set\ENUM\USB



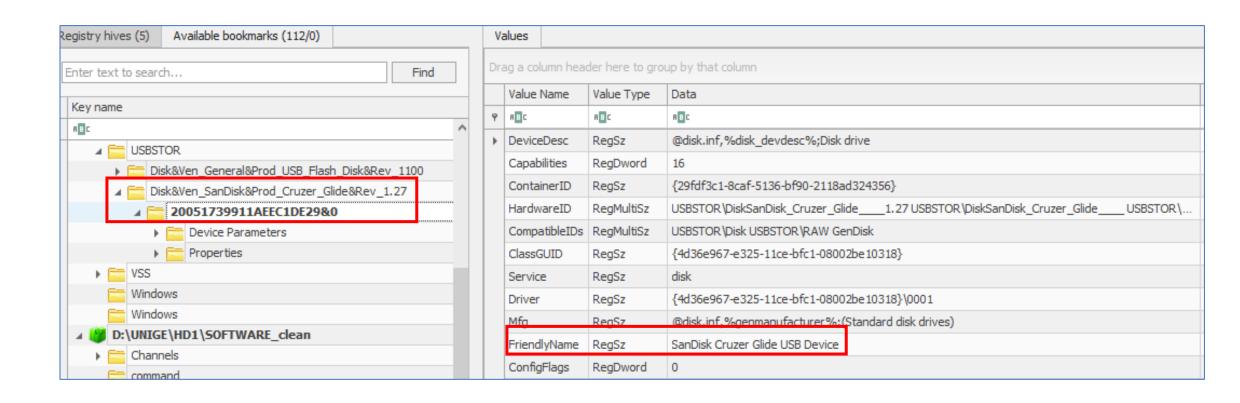
USB - Vendor ID - Product ID - Physical S/N

www.devicehunt.com



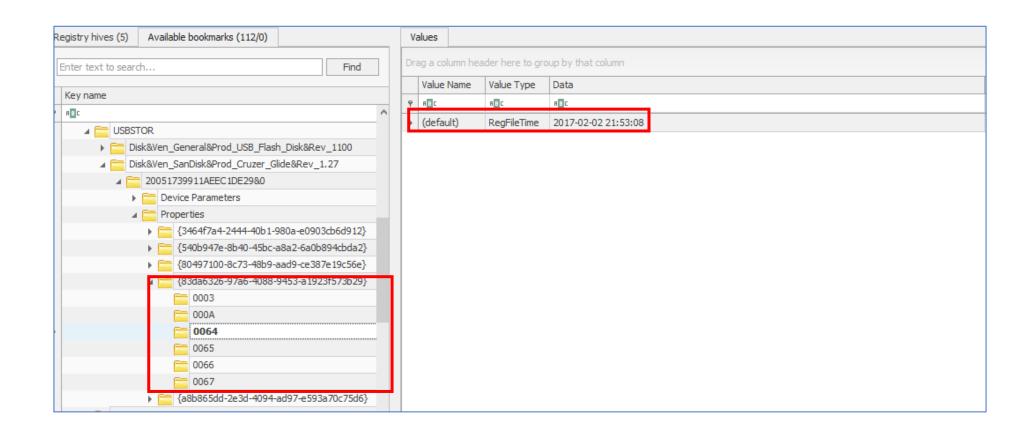
USB – Vendor – Product – Physical S/N – Friendly Name

SYSTEMCurrent Control Set\ENUM\USBSTOR



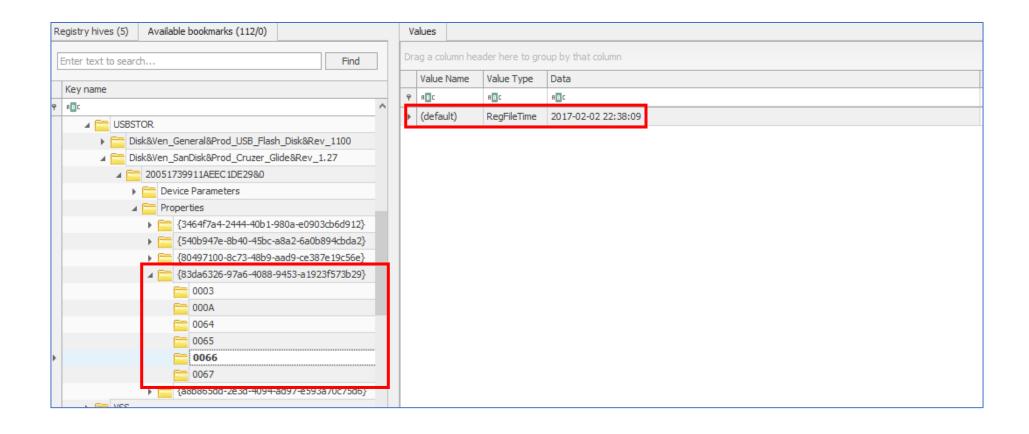
USB – Installation date / First connection

SYSTEM*Current Control Set*\ENUM\USBSTOR\<device>\<S/N>\
Properties\{83da6326-97a6-4088-9453-a1923f573b29}\00000064



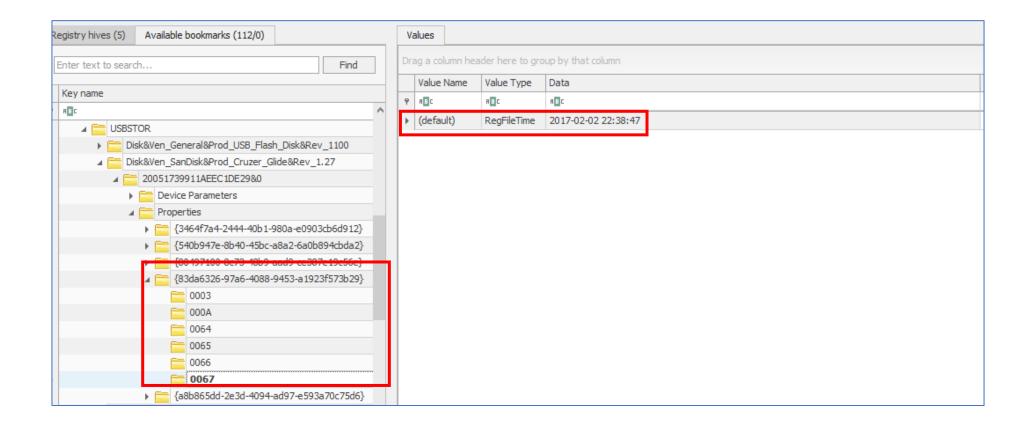
USB – Last connection

SYSTEM*Current Control Set*\ENUM\USBSTOR\<device>\<S/N>\
Properties\{83da6326-97a6-4088-9453-a1923f573b29}\00000066



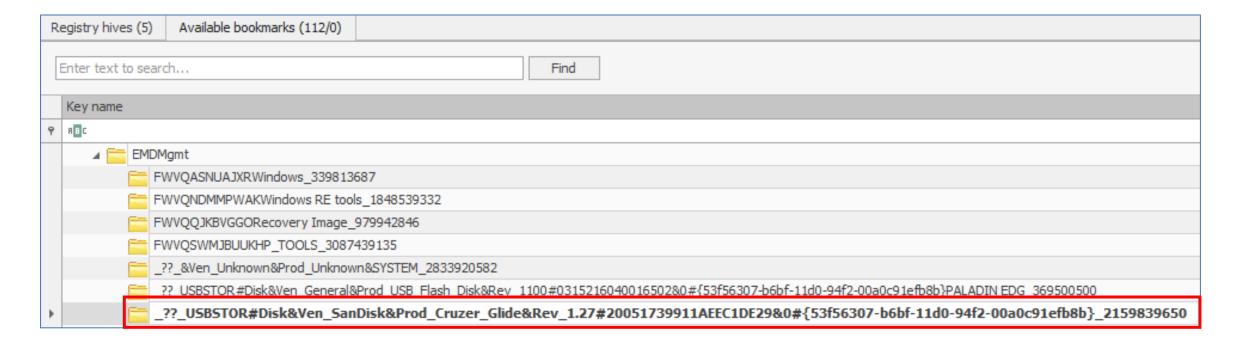
USB – Last removal

SYSTEM*Current Control Set*\ENUM\USBSTOR\<device>\<S/N>\ Properties\{83da6326-97a6-4088-9453-a1923f573b29}\00000067



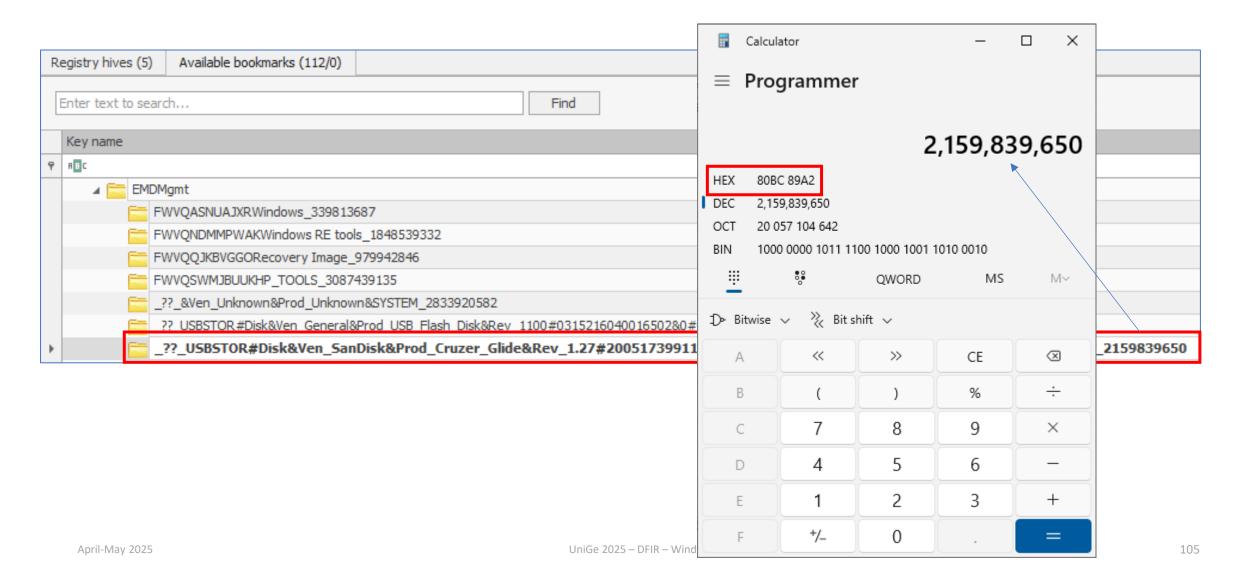
USB – Volume Serial Number

SOFTWARE\Microsoft\Windows NT\CurrentVersion\EMDMgmt



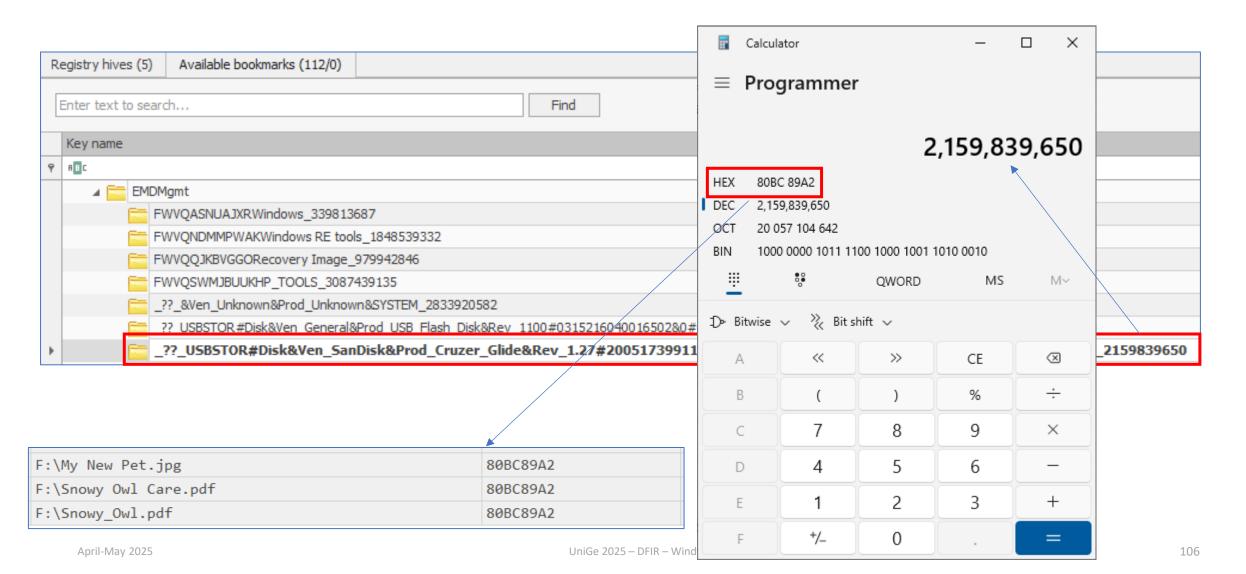
USB – Volume Serial Number

SOFTWARE\Microsoft\Windows NT\CurrentVersion\EMDMgmt



USB – Volume Serial Number

SOFTWARE\Microsoft\Windows NT\CurrentVersion\EMDMgmt



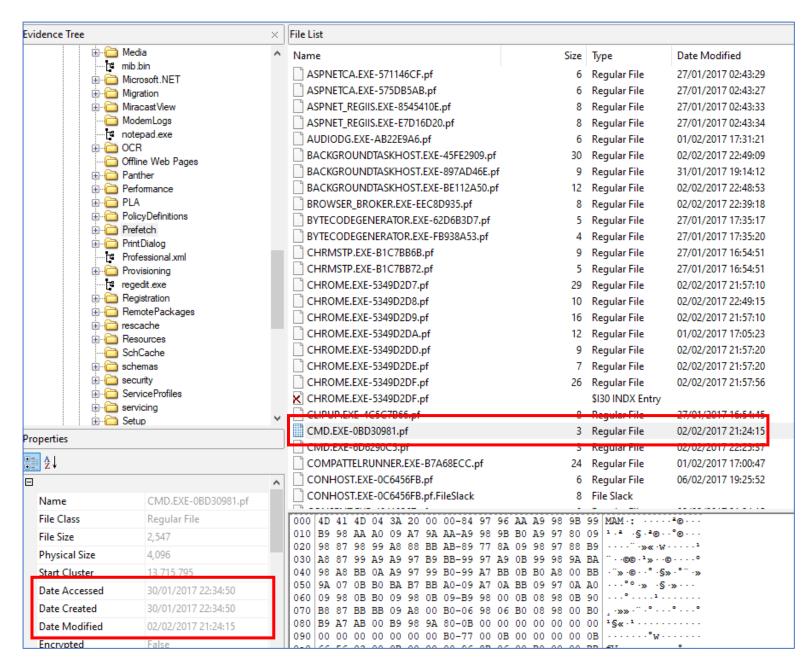
Exercise 9

Identify all the information about connected USB Devices

- Vendor
- Model
- Firmware Revision
- Physical Serial Number
- First usage
- Last usage
- Volume name
- Volume Serial Number

Prefetch

- Windows XP/Vista/7/8/10 feature
- Used to increase system performances by preloading libraries/code
- Stored in .pf files in C:\Windows\Prefetch
- One file per executable
- Vista/7 → 128 file max
- 8/10 → 1024 file max
- It contains last time run (Vista/7) and last 8 times run (8/10)



Parsing Prefetch

PECmd by Eric Zimmerman

```
C:\Windows\System32\cmd.exe
                                                                                                                                     Microsoft Windows [Version 10.0.19045.4170]
(c) Microsoft Corporation. All rights reserved.
C:\ForensicTools\ZimmermanTools\net6>pecmd
Description:
 PECmd version 1.5.0.0
  Author: Eric Zimmerman (saericzimmerman@gmail.com)
 https://github.com/EricZimmerman/PECmd
 Examples: PECmd.exe -f "C:\Temp\CALC.EXE-3FBEF7FD.pf"
           PECmd.exe -f "C:\Temp\CALC.EXE-3FBEF7FD.pf" -- json "D:\jsonOutput" -- jsonpretty
           PECmd.exe -d "C:\Temp" -k "system32, fonts"
           PECmd.exe -d "C:\Temp" --csv "c:\temp" --csvf foo.csv --json c:\temp\json
           PECmd.exe -d "C:\Windows\Prefetch"
           Short options (single letter) are prefixed with a single dash. Long commands are prefixed with two dashes
 PECmd [options]
ptions:
  -f <f>
                   File to process. Either this or -d is required
  -d <d>
                   Directory to recursively process. Either this or -f is required
  -k <k>
                   Comma separated list of keywords to highlight in output. By default, 'temp' and 'tmp' are highlighted. Any
                  additional keywords will be added to these
                   When specified, save prefetch file bytes to the given path. Useful to look at decompressed Win10 files
  -0 <0>
                   Do not dump full details about each file processed. Speeds up processing when using --json or --csv [default:
  -q
                  Directory to save JSON formatted results to. Be sure to include the full path in double quotes
  --json <json>
  --jsonf <jsonf> File name to save JSON formatted results to. When present, overrides default name
  --csv <csv>
                   Directory to save CSV formatted results to. Be sure to include the full path in double quotes
                  File name to save CSV formatted results to. When present, overrides default name
  --csvf <csvf>
  --html <html>
                  Directory to save xhtml formatted results to. Be sure to include the full path in double quotes
                  The custom date/time format to use when displaying time stamps. See https://goo.gl/CNVq0k for options [default:
  --dt <dt>
                   yyyy-MM-dd HH:mm:ss]
                   When true, display higher precision for timestamps [default: False]
  --mp
                  Process all Volume Shadow Copies that exist on drive specified by -f or -d [default: False]
  --dedupe
                   Deduplicate -f or -d & VSCs based on SHA-1. First file found wins [default: False]
  --debug
                   Show debug information during processing [Jthiffæul1025F-albfik - Windows
  --trace
                   Show trace information during processing [default: False]
```

Parsing a single PF file

PEcmd.exe –f "filename.pf"

```
C:\Windows\System32\cmd.exe
C:\ForensicTools\ZimmermanTools\net6>pecmd -f e:\Windows\Prefetch\MICROSOFT.PHOTOS.EXE-CD521852.pf
PECmd version 1.5.0.0
Author: Eric Zimmerman (saericzimmerman@gmail.com)
https://github.com/EricZimmerman/PECmd
Command line: -f e:\Windows\Prefetch\MICROSOFT.PHOTOS.EXE-CD521852.pf
Warning: Administrator privileges not found!
Keywords: temp, tmp
Processing e:\Windows\Prefetch\MICROSOFT.PHOTOS.EXE-CD521852.pf
Created on: 2017-01-27 17:23:12
Modified on: 2017-01-27 17:23:36
Last accessed on: 2024-04-07 10:08:09
Executable name: MICROSOFT.PHOTOS.EXE
Hash: CD521852
File size (bytes): 155,634
Version: Windows 10 or Windows 11
Run count: 4
Last run: 2017-01-27 17:23:32
Other run times: 2017-01-27 17:23:28, 2017-01-27 17:23:25, 2017-01-27 17:23:02
Volume information:
#0: Name: \VOLUME{01d2783140af8e9f-14412537} Serial: ሂሚፋኒያያን የቮይāቲどは 0 0 06:48 Directories: 39 File references: 171
```

Parsing a single PF file

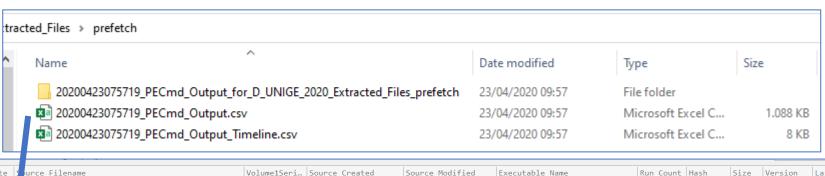
PEcmd.exe –f "filename.pf"

```
C:\Windows\System32\cmd.exe
 0: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\WINSPOOL.DRV
 1: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\VERSION.DLL
2: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\WINDOWS.APPLICATIONMODEL.LOCKSCREEN.DLL
 3: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\WINCORLIB.DLL
 4: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\EFSWRT.DLL
5: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\MPR.DLL
 6: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\TZRES.DLL
7: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\EN-US\TZRES.DLL.MUI
8: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\EN-US\WINDOWS.STORAGE.DLL.MUI
 9: \VOLUME{01d2783140af8e9f-14412537}\PROGRAMDATA\MICROSOFT\WINDOWS\CACHES\CVERSIONS.2.DB
 1: \VOLUME{01d2783140af8e9f-14412537}\PROGRAMDATA\MICROSOFT\WINDOWS\CACHES\{DDF571F2-BE98-426D-8288-1A9A39C3FDA2}.2.VER0X00000000000000001.DB
L: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\EN-US\WINDOWS.UI.XAML.DLL.MUI
23: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\TWINAPI.DLL
 4: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SERVICEPROFILES\LOCALSERVICE\APPDATA\LOCAL\FONTCACHE\~FONTCACHE-SYSTEM.DAT
5: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SERVICEPROFILES\LOCALSERVICE\APPDATA\LOCAL\FONTCACHE\~FONTCACHE-FONTFACE.DAT
 6: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SERVICEPROFILES\LOCALSERVICE\APPDATA\LOCAL\FONTCACHE\~FONTCACHE-S-1-5-21-929903582-3707417421-3176878646-1002.DAT
7: \VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.511.8780.0_X64__8WEKYB3D8BBWE\APPCS\ASSETS\PHTOMDL2.1.61.TTF
28: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\FONTS\SEGOEUI.TTF
 9. \VOLUME{01d2783140af8e9f-14412537}\WTNDOWS\FONTS\SEGMDL2 TTE
 : \VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\DESKTOP\PETS\SNOWY OWL.JPG
 1: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\PHOTOMETADATAHANDLER.DLL
 2: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\EN-US\KERNELBASE.DLL.MUI
 3: \VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\DESKTOP\PETS\PYGMY OWL.JPG
 4: \VOLUME{01d2783140af8e9f-14412537}\$MFT
 5: \VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\LOGONCLI.DLL
 : \VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\DESKTOP\PETS\GREAT HORNED OWL.JPG
```

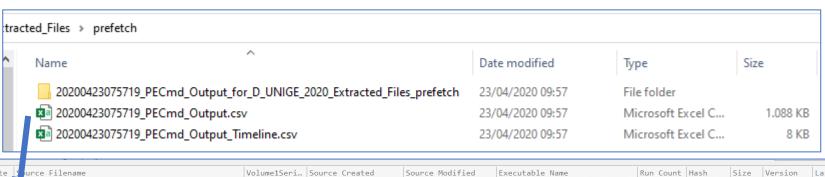
PEcmd.exe –d <PATH-TO-FOLDER> --csv <PATH-TO-OUTPUT> -q

```
C:\Windows\System32\cmd.exe
                                                                                                                                                                                                                     o ×
              :\<u>ForensicTools\Zimmerm</u>anTools\net6>pecmd -d e:\Windows\Prefetch\ --csv D:\UNIGE\EXTRACTED\ -q
              ECmd version 1.5.0.0
              Author: Eric Zimmerman (saericzimmerman@gmail.com)
             nttps://github.com/EricZimmerman/PECmd
             Command line: -d e:\Windows\Prefetch\ --csv D:\UNIGE\EXTRACTED\ -q
             Warning: Administrator privileges not found!
             Keywords: temp, tmp
              .ooking for prefetch files in e:\Windows\Prefetch\
              ound 225 Prefetch files
               ------ Processed e:\Windows\Prefetch\56.0.2924.87 56.0.2924.76 CHR-D7B50B6D.pf in 0.00552420 seconds ------
               ----- Processed e:\Windows\Prefetch\ACCELEROMETERST.EXE-41616180.pf in 0.00021120 seconds ------
               ------ Processed e:\Windows\Prefetch\AM DELTA.EXE-78CA83B0.pf in 0.00024460 seconds ------
               ------ Processed e:\Windows\Prefetch\AM DELTA PATCH 1.235.1383.0.E-789A3F12.pf in 0.00011460 seconds
               ------ Processed e:\Windows\Prefetch\AM DELTA PATCH 1.235.1750.0.E-CF523DC0.pf in 0.00013780 seconds ------
               ------ Processed e:\Windows\Prefetch\APPCMD.EXE-047C9281.pf in 0.00017480 seconds ------
                       Processed e:\Windows\Prefetch\APPLICATIONFRAMEHOST.EXE-8CE9A1EE.pf in 0.00032730 seconds ------
                       Processed e:\Windows\Prefetch\ASPNETCA.EXE-571146CF.pf in 0.00018710 seconds ------
                      Processed e:\Windows\Prefetch\ASPNETCA.EXE-575DB5AB.pf in 0.000
                       Processed e:\Windows\Prefetch\ASPNET REGIIS.EXE-8545410E.pf in 0.0
               ------ Processed e:\Windows\Prefetch\ASPNET REGIIS.EXE-E7D16D20.pf in 0.0002270
                                                                                              00 seconds -----
                      Processed e:\Windows\Prefetch\AUDIODG.EXE-AB22E9A6.pf in 0.0
                       Processed e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-45FE2909.pf in 0.0
                       Processed e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-897AD46E.pf in 0.0
               ------ Processed e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-BE112A50.pf in 0.00
               ------ Processed e:\Windows\Prefetch\BROWSER BROKER.EXE-EEC8D935.pf in 0.00025970 seconds -------
               ------ Processed e:\Windows\Prefetch\BYTECODEGENERATOR.EXE-62D6B3D7.pf in 0.00021040 seconds ------
                       Processed e:\Windows\Prefetch\BYTECODEGENERATOR.EXE-FB938A53.pf in 0.00022130 seconds ------
                       Processed e:\Windows\Prefetch\CHRMSTP.EXE-B1C7BB6B.pf in 0.00032160
                       Processed e:\Windows\Prefetch\CHRMSTP.EXE-B1C7BB72.pf in 0.00
                      Processed e:\Windows\Prefetch\CHROME.EXE-5349D2D7.pf in 0.0
                       Processed e:\Windows\Prefetch\CHROME.EXE-5349D2D8.pf in 0.0
                      Processed e:\Windows\Prefetch\CHROME.EXE-5349D2D9.pf in 0.00039610
                      Processed e:\Windows\Prefetch\CHROME.EXE-5349D2DA.pf in 0.00031200
                      • Processed e:\Windows\Prefetch\CHROME.EXE-5349D2DD.pf in 0.0002353
                      Processed e:\Windows\Prefetch\CHROME.EXE-5349D2DE.pf in 0.0
               ------ Processed e:\Windows\Prefetch\CHROME.EXE-5349D2DF.pf in 0.0
               ------ Processed e:\Windows\Prefetch\CLIPUP.EXE-4C5C7B66.pf in 0.00022140 seconds ------
               ------ Processed e:\Windows\Prefetch\CMD.EXE-0BD30981.pf in 0.00010130 seconds ------
               ------ Processed e:\Windows\Prefetch\CMD.EXE-6D6290C5.pf in 0.00011150 seconds ------
              ------- Processed e:\Windows\Prefetch\COMPATTELRUNNER.EXE-B7A68ECC.pf in 0.00257130 seconds -------
April-May 2( Error opening e:\Windows\Prefetch\CONHOST.EXE-0C6456FB.pf. Message: Invalid signature! Should be 'SCCA'
              ystem.Exception: Invalid signature! Should be 'SCCA'
```

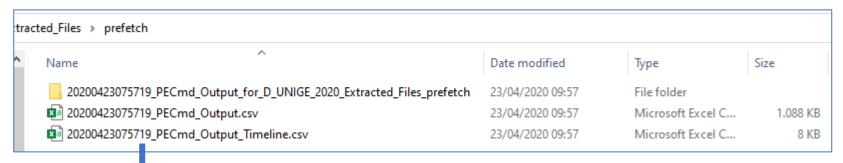
112



L 4	Tag	Note	Surce Filename	Volume1Seri	Source Created	Source Modified	Executable Name	Run Count	Hash	Size	Version	Last Run	
▼ =	ш	явс		R □ C	=	=	A □ C	-	я 🛭 с	-	REC	-	
	1 _		e:\Windows\Prefetch\56.0.2924.87_56.0.2924.76_C		2017-02-02 21:25:54	2017-02-02 21:25:54	56.0.2924.87_56.0.2924.76_CHR	1	D7B50B6D	36808	Windows	2017-02-02	21:25:44
	2 🗌		$\verb e:\Windows\Prefetch\ACCELEROMETERST.EXE-4161618 $		2017-01-30 18:46:42	2017-02-02 21:24:51	ACCELEROMETERST.EXE	5	41616180	29360	Windows	2017-02-02	21:24:40
	3 🗌		e:\Windows\Prefetch\AM_DELTA.EXE-78CA83B0.pf		2017-01-30 18:47:35	2017-02-02 21:26:44	AM_DELTA.EXE	3	78CA83B0	45236	Windows	2017-02-02	21:26:33
	4		e:\Windows\Prefetch\AM_DELTA_PATCH_1.235.1383.0		2017-01-27 17:13:25	2017-01-27 17:13:25	AM_DELTA_PATCH_1.235.1383.0.E	1	789A3F12	14882	Windows	2017-01-27	17:13:15
	5 🗌		e:\Windows\Prefetch\AM_DELTA_PATCH_1.235.1750.0		2017-02-01 16:59:03	2017-02-01 16:59:03	AM_DELTA_PATCH_1.235.1750.0.E	1	CF523DC0	15770	Windows	2017-02-01	16:58:53
	6 🗌		e:\Windows\Prefetch\APPCMD.EXE-047C9281.pf		2017-01-27 02:43:22	2017-01-27 02:43:23	APPCMD.EXE	5	47C9281	25282	Windows	2017-01-27	02:43:23
	7		$\verb e:\Windows\Prefetch\APPLICATIONFRAMEHOST.EXE-8C \\$		2017-01-27 17:22:31	2017-02-02 22:00:50	APPLICATIONFRAMEHOST.EXE	7	8CE9A1EE	50612	Windows	2017-02-02	22:00:40
	8 🗌		e:\Windows\Prefetch\ASPNETCA.EXE-571146CF.pf		2017-01-27 02:43:29	2017-01-27 02:43:29	ASPNETCA.EXE	1	571146CF	24844	Windows	2017-01-27	02:43:28
	9 🗌		e:\Windows\Prefetch\ASPNETCA.EXE-575DB5AB.pf		2017-01-27 02:43:27	2017-01-27 02:43:27	ASPNETCA.EXE	1	575DB5AB	25602	Windows	2017-01-27	02:43:26
1	0 🗌		e:\Windows\Prefetch\ASPNET_REGIIS.EXE-8545410E		2017-01-27 02:43:33	2017-01-27 02:43:33	ASPNET_REGIIS.EXE	1	8545410E	34884	Windows	2017-01-27	02:43:32
1	1 _		e:\Windows\Prefetch\ASPNET_REGIIS.EXE-E7D16D20		2017-01-27 02:43:34	2017-01-27 02:43:34	ASPNET_REGIIS.EXE	1	E7D16D20	34848	Windows	2017-01-27	02:43:33
1	2 🗌		e:\Windows\Prefetch\AUDIODG.EXE-AB22E9A6.pf		2017-01-27 16:57:20	2017-02-01 17:31:21	AUDIODG.EXE	6	AB22E9A6	22530	Windows	2017-02-01	17:31:11
1	3 🗌		$\verb e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-45FE \\$		2017-01-27 17:17:04	2017-02-02 22:49:09	BACKGROUNDTASKHOST.EXE	13	45FE2909	132288	Windows	2017-02-02	22:48:59
1	4		$\verb e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-897A \\$		2017-01-30 19:20:40	2017-01-31 19:14:12	BACKGROUNDTASKHOST.EXE	3	897AD46E	36294	Windows	2017-01-31	19:14:12
1	5 🗌		$\verb e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-BE11 \\$		2017-01-27 17:22:19	2017-02-02 22:48:53	BACKGROUNDTASKHOST.EXE	6	BE112A50	48004	Windows	2017-02-02	22:48:53
1	6 🗌		e:\Windows\Prefetch\BROWSER_BROKER.EXE-EEC8D935		2017-01-27 17:22:27	2017-02-02 22:39:18	BROWSER_BROKER.EXE	6	EEC8D935	32396	Windows	2017-02-02	22:39:08
1	7		e:\Windows\Prefetch\BYTECODEGENERATOR.EXE-62D6B		2017-01-27 17:12:36	2017-01-27 17:35:17	BYTECODEGENERATOR.EXE	16	62D6B3D7	16526	Windows	2017-01-27	17:35:16
1	8 🗌		$\verb e:\Windows\Prefetch\BYTECODEGENERATOR.EXE-FB938 $		2017-01-27 17:13:30	2017-01-27 17:35:20	BYTECODEGENERATOR.EXE	3	FB938A53	14236	Windows	2017-01-27	17:35:19
1	9 🗌		e:\Windows\Prefetch\CHRMSTP.EXE-B1C7BB6B.pf		2017-01-27 16:54:51	2017-01-27 16:54:51	CHRMSTP.EXE	1	B1C7BB6B	42686	Windows	2017-01-27	16:54:50
2	0 🗌		e:\Windows\Prefetch\CHRMSTP.EXE-B1C7BB72.pf		2017-01-27 16:54:51	2017-01-27 16:54:51	CHRMSTP.EXE	1	B1C7BB72	22610	Windows	2017-01-27	16:54:50
2	1 🗌		e:\Windows\Prefetch\CHROME.EXE-5349D2D7.pf		2017-01-27 16:57:59	2017-02-02 21:57:10	CHROME.EXE	13	5349D2D7	138304	Windows	2017-02-02	21:57:10
2	2 🗌		e:\Windows\Prefetch\CHROME.EXE-5349D2D8.pf		2017-01-27 16:58:06	2017-02-02 22:49:15	CHROME.EXE	62	5349D2D8	43132	Windows	2017-02-02	22:49:15
2	3 🗌		e:\Windows\Prefetch\CHROME.EXE-5349D2D9.pf		2017-01-27 16:58:05	2017-02-02 21:57:10	CHROME.EXE	14	5349D2D9	61966	Windows	2017-02-02	21:57:10
2	4		e:\Windows\Prefetch\CHROME.EXE-5349D2DA.pf		2017-01-27 17:01:43	2017-02-01 17:05:23	CHROME.EXE	16	5349D2DA	53532	Windows	2017-02-01	17:05:13
2	5 🗌		e:\Windows\Prefetch\CHROME.EXE-5349D2DD.pf		2017-01-27 16:58:04	2017-02-02 21:57:20	CHROME.EXE	16	5349D2DD	34832	Windows	2017-02-02	21:57:10
2	6 🗌		e:\Windows\Prefetch\CHROME.EXE-5349D2DE.pf		2017-01-27 16:58:03	2017-02-02 21:57:20	CHROME.EXE	16	5349D2DE	27458	Windows	2017-02-02	21:57:10
2	7 🗌		e:\Windows\Prefetch\CHROME.EXE-5349D2DF.pf		2017-01-27 16:58:43	2017-02-02 21:57:56	CHROME.EXE	24	5349D2DF	108842	Windows	2017-02-02	21:57:56
2	8 🗌		e:\Windows\Prefetch\CLIPUP.EXE-4C5C7B66.pf		2017-01-27 02:47:59	2017-01-27 16:54:45	CLIPUP.EXE	5	4C5C7B66	31608	Windows	2017-01-27	16:54:44
2	9 🗌		e:\Windows\Prefetch\CMD.EXE-0BD30981.pf		2017-01-30 22:34:50	2017-02-02 21:24:15	CMD.EXE	7	BD30981	8250	Windows	2017-02-02	21:24:15
3	0 🗌		e:\Windows\Prefetch\CMD.EXE-6D6290C5.pf		2017-02-02 22:25:27	2017-02-02 22:25:37	CMD.EXE	6	6D6290C5	12480	Windows	2017-02-02	22:25:37
3	1 🗆		e:\Windows\Prefetch\COMPATTELRUNNER.EXE-B7A68EC		2017-01-27 02:48:31	2017-02-01 17:00:47	COMPATTELRUNNER.EXE	7	B7A68ECC	153870	Windows	2017-02-01	17:00:46
3	2 🗌		e:\Windows\Prefetch\CONSENT.EXE-40419367.pf		2017-01-27 16:54:36	2017-02-02 21:24:15	CONSENT.EXE	4	40419367	35262	Windows	2017-02-02	21:24:15
3	3 🗌		e:\Windows\Prefetch\CREDENTIALUIBROKER.EXE-8CED		2017-01-30 22:40:07	2017-01-30 22:40:07	CREDENTIALUIBROKER.EXE	1	8CEDA3EB	104982	Windows	2017-01-30	22:40:04



L	▲ Tag	Note	Surce Filename	Volume1Seri	Source Created	Source Modified	Executable Name	Run Count	Hash	Size	Version	Last Run	
▼ =		REC		я∎с	=	=	n⊡c	-	явс	-	8 B C	-	
	1		e:\Windows\Prefetch\56.0.2924.87_56.0.2924.76_C		2017-02-02 21:25:54	2017-02-02 21:25:54	56.0.2924.87_56.0.2924.76_CHR	1	D7B50B6D	36808	Windows	2017-02-02	21:25:44
	2		e:\Windows\Prefetch\ACCELEROMETERST.EXE-4161618		2017-01-30 18:46:42	2017-02-02 21:24:51	ACCELEROMETERST.EXE	5	41616180	29360	Windows	2017-02-02	21:24:40
	3		e:\Windows\Prefetch\AM_DELTA.EXE-78CA83B0.pf		2017-01-30 18:47:35	2017-02-02 21:26:44	AM_DELTA.EXE	3	78CA83B0	45236	Windows	2017-02-02	21:26:33
	4		e:\Windows\Prefetch\AM_DELTA_PATCH_1.235.1383.0		2017-01-27 17:13:25	2017-01-27 17:13:25	AM_DELTA_PATCH_1.235.1383.0.E	1	789A3F12	14882	Windows	2017-01-27	17:13:15
	5		e:\Windows\Prefetch\AM_DELTA_PATCH_1.235.1750.0		2017-02-01 16:59:03	2017-02-01 16:59:03	AM_DELTA_PATCH_1.235.1750.0.E	1	CF523DC0	15770	Windows	2017-02-01	16:58:53
	6		e:\Windows\Prefetch\APPCMD.EXE-047C9281.pf		2017-01-27 02:43:22	2017-01-27 02:43:23	APPCMD.EXE	5	47C9281	25282	Windows	2017-01-27	02:43:23
	7		e:\Windows\Prefetch\APPLICATIONFRAMEHOST.EXE-8C		2017-01-27 17:22:31	2017-02-02 22:00:50	APPLICATIONFRAMEHOST.EXE	7	8CE9A1EE	50612	Windows	2017-02-02	22:00:40
	8		e:\Windows\Prefetch\ASPNETCA.EXE-571146CF.pf		2017-01-27 02:43:29	2017-01-27 02:43:29	ASPNETCA.EXE	1	571146CF	24844	Windows	2017-01-27	02:43:28
	9		e:\Windows\Prefetch\ASPNETCA.EXE-575DB5AB.pf		2017-01-27 02:43:27	2017-01-27 02:43:27	ASPNETCA.EXE	1	575DB5AB	25602	Windows	2017-01-27	02:43:26
1	10		e:\Windows\Prefetch\ASPNET_REGIIS.EXE-8545410E		2017-01-27 02:43:33	2017-01-27 02:43:33	ASPNET_REGIIS.EXE	1	8545410E	34884	Windows	2017-01-27	02:43:32
:	11		e:\Windows\Prefetch\ASPNET_REGIIS.EXE-E7D16D20		2017-01-27 02:43:34	2017-01-27 02:43:34	ASPNET_REGIIS.EXE	1	E7D16D20	34848	Windows	2017-01-27	02:43:33
1	12		e:\Windows\Prefetch\AUDIODG.EXE-AB22E9A6.pf		2017-01-27 16:57:20	2017-02-01 17:31:21	AUDIODG.EXE	6	AB22E9A6	22530	Windows	2017-02-01	17:31:11
1	13		e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-45FE		2017-01-27 17:17:04	2017-02-02 22:49:09	BACKGROUNDTASKHOST.EXE	13	45FE2909	132288	Windows	2017-02-02	22:48:59
1	14		e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-897A		2017-01-30 19:20:40	2017-01-31 19:14:12	BACKGROUNDTASKHOST.EXE	3	897AD46E	36294	Windows	2017-01-31	19:14:12
1	15		e:\Windows\Prefetch\BACKGROUNDTASKHOST.EXE-BE11		2017-01-27 17:22:19	2017-02-02 22:48:53	BACKGROUNDTASKHOST.EXE	6	BE112A50	48004	Windows	2017-02-02	22:48:53
:	16		e:\Windows\Prefetch\BROWSER_BROKER.EXE-EEC8D935		2017-01-27 17:22:27	2017-02-02 22:39:18	BROWSER_BROKER.EXE	6	EEC8D935	32396	Windows	2017-02-02	22:39:08
1	17		e:\Windows\Prefetch\BYTECODEGENERATOR.EXE-62D6B		2017-01-27 17:12:36	2017-01-27 17:35:17	BYTECODEGENERATOR.EXE	16	62D6B3D7	16526	Windows	2017-01-27	17:35:16
1	18		e:\Windows\Prefetch\BYTECODEGENERATOR.EXE-FB938		2017-01-27 17:13:30	2017-01-27 17:35:20	BYTECODEGENERATOR.EXE	3	FB938A53	14236	Windows	2017-01-27	17:35:19
1	19		e:\Windows\Prefetch\CHRMSTP.EXE-B1C7BB6B.pf		2017-01-27 16:54:51	2017-01-27 16:54:51	CHRMSTP.EXE	1	B1C7BB6B	42686	Windows	2017-01-27	16:54:50
1	20		e:\Windows\Prefetch\CHRMSTP.EXE-B1C7BB72.pf		2017-01-27 16:54:51	2017-01-27 16:54:51	CHRMSTP.EXE	1	B1C7BB72	22610	Windows	2017-01-27	16:54:50
1	21		e:\Windows\Prefetch\CHROME.EXE-5349D2D7.pf		2017-01-27 16:57:59	2017-02-02 21:57:10	CHROME.EXE	13	5349D2D7	138304	Windows	2017-02-02	21:57:10
1	22		e:\Windows\Prefetch\CHROME.EXE-5349D2D8.pf		2017-01-27 16:58:06	2017-02-02 22:49:15	CHROME.EXE	62	5349D2D8	43132	Windows	2017-02-02	22:49:15
	23		e:\Windows\Prefetch\CHROME.EXE-5349D2D9.pf		2017-01-27 16:58:05	2017-02-02 21:57:10	CHROME.EXE	14	5349D2D9	61966	Windows	2017-02-02	21:57:10
1	24		e:\Windows\Prefetch\CHROME.EXE-5349D2DA.pf		2017-01-27 17:01:43	2017-02-01 17:05:23	CHROME.EXE	16	5349D2DA	53532	Windows	2017-02-01	17:05:13
	25		e:\Windows\Prefetch\CHROME.EXE-5349D2DD.pf		2017-01-27 16:58:04	2017-02-02 21:57:20	CHROME.EXE	16	5349D2DD	34832	Windows	2017-02-02	21:57:10
1	26		e:\Windows\Prefetch\CHROME.EXE-5349D2DE.pf		2017-01-27 16:58:03	2017-02-02 21:57:20	CHROME.EXE	16	5349D2DE	27458	Windows	2017-02-02	21:57:10
1	27		e:\Windows\Prefetch\CHROME.EXE-5349D2DF.pf		2017-01-27 16:58:43	2017-02-02 21:57:56	CHROME.EXE	24	5349D2DF	108842	Windows	2017-02-02	21:57:56
1	28		e:\Windows\Prefetch\CLIPUP.EXE-4C5C7B66.pf		2017-01-27 02:47:59	2017-01-27 16:54:45	CLIPUP.EXE	5	4C5C7B66	31608	Windows	2017-01-27	16:54:44
	29		e:\Windows\Prefetch\CMD.EXE-0BD30981.pf		2017-01-30 22:34:50	2017-02-02 21:24:15	CMD.EXE	7	7 BD30981	8250	Windows	2017-02-02	21:24:15
3	30		e:\Windows\Prefetch\CMD.EXE-6D6290C5.pf		2017-02-02 22:25:27	2017-02-02 22:25:37	CMD.EXE	6	6D6290C5	12480	Windows	2017-02-02	22:25:37
	31		e:\Windows\Prefetch\COMPATTELRUNNER.EXE-B7A68EC		2017-01-27 02:48:31	2017-02-01 17:00:47	COMPATTELRUNNER.EXE	7	B7A68ECC	153870	Windows	2017-02-01	17:00:46
3	32		e:\Windows\Prefetch\CONSENT.EXE-40419367.pf		2017-01-27 16:54:36	2017-02-02 21:24:15	CONSENT.EXE	4	40419367	35262	Windows	2017-02-02	21:24:15
	33		e:\Windows\Prefetch\CREDENTIALUIBROKER.EXE-8CED		2017-01-30 22:40:07	2017-01-30 22:40:07	CREDENTIALUIBROKER.EXE	1	8CEDA3EB	104982	Windows	2017-01-30	22:40:04



Line		Run Time 🔺	Executable Name
=	ш	=	n c
379		2017-02-02 22:00:41	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
528		2017-02-02 22:01:10	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\RUNDLL32.EXE
700		2017-02-02 22:05:12	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SVCHOST.EXE
737		2017-02-02 22:05:21	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\IMMERSIVECONTROLPANEL\SYSTEMSETTINGS.EXE
810		2017-02-02 22:05:22	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\WIFITASK.EXE
378		2017-02-02 22:05:31	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
655		2017-02-02 22:07:18	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SVCHOST.EXE
81		2017-02-02 22:07:25	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
566		2017-02-02 22:11:28	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SEARCHFILTERHOST.EXE
578		2017-02-02 22:11:28	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SEARCHPROTOCOLHOST.EXE
678		2017-02-02 22:12:11	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SVCHOST.EXE
80		2017-02-02 22:23:43	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
565		2017-02-02 22:25:03	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SEARCHFILTERHOST.EXE
577		2017-02-02 22:25:03	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SEARCHPROTOCOLHOST.EXE
624		2017-02-02 22:25:10	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\SMARTSCREEN.EXE
869		2017-02-02 22:25:11	YAHOO-MESSENGER-0.8.288-WIN32
790		2017-02-02 22:25:12	\VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\APPDATA\LOCAL\SQUIRRELTEMP\UPDATE.EXE
862		2017-02-02 22:25:20	\VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\APPDATA\LOCAL\YAHOOMESSENGER\APP-0.8.288\YAHOO MESSENGER.EXE
518		2017-02-02 22:25:23	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSWOW64\REG.EXE
789		2017-02-02 22:25:23	\VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\APPDATA\LOCAL\YAHOOMESSENGER\UPDATE.EXE
868		2017-02-02 22:25:23	$\label{thm:local-yahoomessenger-app-0.8.288-yahoo} $$ \VOLUME \{01d2783140 af 8e9f-14412537\} \VOLUME \{01d2784140 af 8e9f-14412537\} \VOLUME \{01d27$
198		2017-02-02 22:25:25	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSTEM32\DLLHOST.EXE
861		2017-02-02 22:25:25	\VOLUME{01d2783140af8e9f-14412537}\USERS\SARAH M\APPDATA\LOCAL\YAHOOMESSENGER\APP-0.8.288\YAHOO MESSENGER.EXE
838		2017-02-02 22:25:26	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSWOW64\WBEM\WMIC.EXE
140		2017-02-02 22:25:27	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSWOW64\CMD.EXE
141		2017-02-02 22:25:27	\VOLUME{01d2783140af8e9f-14412537}\WINDOWS\SYSWOW64\CMD.EXE

Exercise 10

- 1. When was Google Chrome executed for the last time?
- 2. When was Microsoft Photos executed for the last time?
- 3. When was **Skype** executed for the **last time**?

		l	
Line	Tag	Run Time 🔺	Executable Name
=		=	or chrome
125		2017-01-31 19:15:53	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
113		2017-02-01 16:57:11	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
88		2017-02-01 16:57:12	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
105		2017-02-01 16:57:12	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
124		2017-02-01 16:57:58	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
123		2017-02-01 17:00:03	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
122		2017-02-01 17:03:13	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
94		2017-02-01 17:05:13	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
112		2017-02-01 19:09:34	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
87		2017-02-01 19:09:35	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
104		2017-02-01 19:09:35	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
84		2017-02-01 19:09:36	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
85		2017-02-01 19:09:36	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
121		2017-02-01 19:10:21	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
590		2017-02-02 21:25:44	thm:lem:lem:lem:lem:lem:lem:lem:lem:lem:le
591		2017-02-02 21:25:44	thm:lem:lem:lem:lem:lem:lem:lem:lem:lem:le
71		2017-02-02 21:28:24	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:
103		2017-02-02 21:28:25	$\label{thm:chrome} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATIO$
111		2017-02-02 21:28:25	$\label{thm:chrome} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE. $$$
83		2017-02-02 21:28:26	$\label{thm:chrome_application} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE $$$
120		2017-02-02 21:29:11	$\label{thm:chrome_application} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE $$$
119		2017-02-02 21:35:08	$\label{thm:chrome} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE. $$$
70		2017-02-02 21:57:10	$\label{thm:chrome} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE. $$$
82		2017-02-02 21:57:10	$\label{thm:chrome} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXE\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATION\CHROME\APPLICATIO$
86		2017-02-02 21:57:10	$\label{thm:chrome_application} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE $$$
102		2017-02-02 21:57:10	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
110		2017-02-02 21:57:10	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
118		2017-02-02 21:57:56	$\label{thm:chrome} $$\VOLUME\{01d2783140af8e9f-14412537\}\PROGRAM\ FILES\ (X86)\GOOGLE\CHROME\APPLICATION\CHROME\.EXERGERS $$$
81		2017-02-02 22:07:25	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
80		2017-02-02 22:23:43	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
79		2017-02-02 22:42:30	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE
78		2017-02-02 22:49:15	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\GOOGLE\CHROME\APPLICATION\CHROME.EXE

Tag	Run Time ▲	Executable Name
	=	all photos
	2017-01-27 17:23:02	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.511.8780.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-01-27 17:23:25	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.511.8780.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-01-27 17:23:28	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.511.8780.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-01-27 17:23:32	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.511.8780.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-01-27 17:30:54	$\label{thm:cosoft.windows.photos_16.1118.10000.0_X64_8WEKYB3D8BBWE\mbox{\tt MICROSOFT.Photos.EXE} \\$
	2017-01-28 22:09:25	$\label{thm:cosoft.windows.photos_16.1118.10000.0_X64_8WEKYB3D8BBWE\mbox{\tt MICROSOFT.Photos.EXE} \\$
	2017-01-30 22:56:34	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-01-31 19:36:24	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-01-31 19:36:44	$\label{thm:cosoft.windows.photos_16.1118.10000.0_X64_8WEKYB3D8BBWE\mbox{\tt MICROSOFT.Photos.EXE} \\$
	2017-02-01 17:31:09	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-02-02 22:00:41	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
	2017-02-02 22:05:31	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES\WINDOWSAPPS\MICROSOFT.WINDOWS.PHOTOS_16.1118.10000.0_X648WEKYB3D8BBWE\MICROSOFT.PHOTOS.EXE
		■ =

Line T	Гад	Run Time	Executable Name
=		=	^{®©} skype
612		2017-01-30 18:47:50	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE
792		2017-01-30 18:48:07	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\UPDATER\UPDATER.EXE
620		2017-01-30 18:51:25	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
611		2017-01-30 18:51:31	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE
619		2017-01-30 18:52:09	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
618		2017-01-30 18:52:51	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
610		2017-01-30 19:20:39	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE
617		2017-01-30 19:20:41	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
609		2017-01-31 18:59:38	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE
616		2017-01-31 18:59:51	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
791		2017-01-31 18:59:52	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\UPDATER\UPDATER.EXE
615		2017-01-31 19:01:05	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
608		2017-01-31 19:01:08	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE
614		2017-01-31 19:01:09	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
613		2017-01-31 19:01:14	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\BROWSER\SKYPEBROWSERHOST.EXE
607		2017-01-31 19:26:31	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE
606		2017-01-31 20:01:41	\VOLUME{01d2783140af8e9f-14412537}\PROGRAM FILES (X86)\SKYPE\PHONE\SKYPE.EXE

Internet Browsers

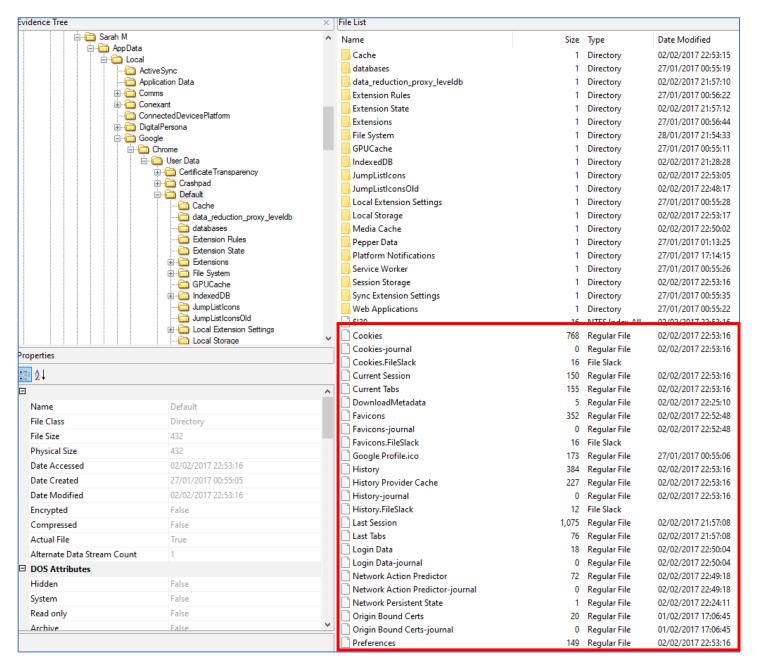
- More than one browser can be installed on a system
- Most commonly used browsers are:
 - Google Chrome
 - Microsoft Edge
 - Mozilla Firefox
- We can recover:
 - History
 - Cache
 - Cookies
 - Filled forms
 - And more...

Google Chrome

User data stored in

C:\Users\<username>\Ap pData\Local\Google\Chro me\User Data\Default

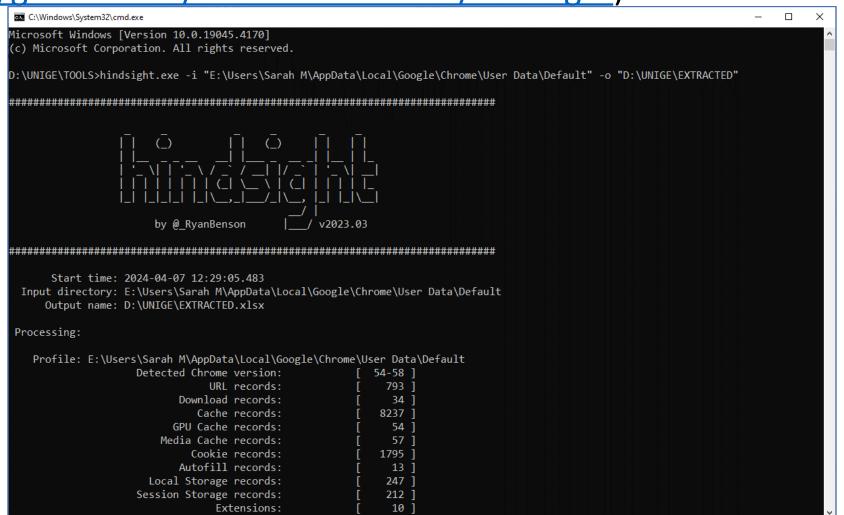
- Data stored in SQLite databases
- Most relevant
 - History
 - Cookies
 - Last Session
 - Last Tabs
 - Login Data



Parsing Google Chrome

Hindsight by Ryan Benson

(https://github.com/obsidianforensics/hindsight)



Parsing Google Chrome

Type	₹ Timestamp (UTC) ₹ URL		Title / Name / Status	Data / Value / Path	Interpretation
url		s.google.com/chrome/intl/en/welcome.html	Getting Started	Data / Value / Lati	merpretation
url		w.google.com/intl/en/chrome/browser/welcome.html			
	sts) 2017-01-27 00:55:20.399 ssl.google-	• • • • • • • • • • • • • • • • • • • •	HSTS observed	26YaoM4gVrY0ie3hywpFBUJh47nllvTljf0QEZuoLCM=: {'dynamic spki hashes expiry': 0.0, 'e	vniry': 1496364920 399954 'mode': 'force-https' 'pkp include subd
url	2017-01-27 00:56:32.273 http://www	•	YouTube		
url	2017-01-27 00:56:32.273 https://ww	•	YouTube		
url	2017-01-27 00:56:34.110 https://ww	•	YouTube		
url	2017-01-27 00:56:52.542 https://ww	•	YouTube		
url		w.youtube.com/results?search_query=game+theory+ha		er - YouTube	search_query: game theory harry potter [Query String Parser]
url		w.youtube.com/results?search_query=game+theory+ha			search_query: game theory harry potter [Query String Parser]
url		w.youtube.com/watch?v=mbC-sDMHypU		er, MORE VOLDEMORT than Voldemort! - YouTube	v: mbC-sDMHypU [Query String Parser]
url		w.google.com/search?q=pottermore&rlz=1C1CHBD_enU			Searched for "pottermore" [Using chrome]
url	2017-01-27 00:59:39.852 https://ww		·	heart of the Wizarding World	
url	2017-01-27 00:59:54.799 https://ww	•	Google		
url	2017-01-27 01:02:03.713 https://ww	w.pottermore.com/cursed-child	Harry Potter and the Cu	rsed Child - Pottermore	
url	2017-01-27 01:02:15.454 https://ww	w.pottermore.com/news	News - Pottermore		
url	2017-01-27 01:02:21.449 https://my	pottermore.com/account/confirm-age	Join - Pottermore		
url	2017-01-27 01:02:29.611 https://my	pottermore.com/account/confirm-age	Join - Pottermore		
url	2017-01-27 01:02:56.615 https://ww	w.google.com/	Google		
url	2017-01-27 01:03:01.911 https://my	pottermore.com/account/confirm-age	Join - Pottermore		
url	2017-01-27 01:03:20.355 https://my	pottermore.com/account/join/verify	Join - Pottermore		
autofill	2017-01-27 01:04:17.000		n	ame Sarah McAvoy	
autofill	2017-01-27 01:04:17.000		e	mail McAvoyS87@gmail.com	
url	2017-01-27 01:04:18.064 https://my	pottermore.com/account/join	Join - Pottermore		
url	2017-01-27 01:04:28.241 https://ww	w.pottermore.com/	Pottermore - The digital	heart of the Wizarding World	
url	2017-01-27 01:05:00.337 https://ww	w.google.com/#q=brightness+setting	brightness setting - Goo	gle Search	Searched for "brightness setting"
url	2017-01-27 01:05:03.752 http://www	v.howtogeek.com/241771/how-to-adjust-your-pcs-scree	r How to Adjust Your PC's	Screen Brightness, Manually and Automatically	
url	2017-01-27 01:05:33.381 https://ww	w.google.com/webhp?sourceid=chrome-instant&rlz=1C	1 Google		sourceid: chrome-instant rlz: 1C1CHBD_enUS729US729 ion: 1
url	2017-01-27 01:05:34.904 https://ww	w.google.com/webhp?sourceid=chrome-instant&rlz=1C	1		Searched for "owls" [Using chrome-instant]
url	2017-01-27 01:05:37.396 https://ww	w.google.com/imgres?imgurl=https://upload.wikimedia	a. Google Image Result for	https://upload.wikimedia.org/wikipedia/commons/thumb/3/39/Athene_noctua_(cropped).jpg	, imgurl: https://upload.wikimedia.org/wikipedia/commons/thum
download		oad.wikimedia.org/wikipedia/commons/thumb/3/39/At	r Complete - 100% [1212:	1/121 C:\Users\Sarah M\Downloads\Luna Owl.jpg	
url	2017-01-27 01:06:30.515 https://ww	w.pottermore.com/explore-the-story	Explore the story - Potte	ermore	
url	2017-01-27 01:06:44.548 https://ww	w.pottermore.com/writing-by-jk-rowling	Writing by J.K. Rowling	- Pottermore	
url		w.pottermore.com/collection/jk-rowling-how-the-wiza		d works - Pottermore	
url		pottermore.com/shop/cart?return_to=%3Futm_source%			return_to: ?utm_source=CartIcon&utm_medium=Pottermore&ut
url		.shop.pottermore.com/?utm_source=CartIcon&utm_me			utm_source: CartIcon utm_medium: Pottermore utm_campaig
url	2017-01-27 01:07:27.370 https://usd	.shop.pottermore.com/products/harry_potter_the_com	p Harry Potter: The Comp	lete Collection - Pottermore Shop	

Exercise 11

- 1. Which Gmail email address was accessed by the Sarah M user?
- 2. Which Facebook account was accessed by the Sarah M user?
- 3. Which files were downloaded?

Exercise 11.1 / 11.2

Hindsight Internet	lindsight Internet History Forensics (v2023.03)								
Type ⊸T	Timestamp (UTC)	URL _T	Title / Name / Status	Data / Value / Path					
url	2017-01-27 17:07:25.416	https://mail.google.com/mail/?pli=1	Gmail						
url	2017-01-27 17:07:25.416	https://mail.google.com/mail/	Gmail						
url	2017-01-27 17:07:27.195	https://mail.google.com/mail/#inbox	Inbox (1) - mcavoys87@gmai	il.com - Gmail					
url	2017-01-27 17:07:50.993	https://mail.google.com/mail/#inbox/159d73b41b53f2e8	Confirm your Twitter accour	nt, Sarah McAvoy - mcavoys87@gmail.com - Gmail					
url	2017-01-27 17:08:11.276	https://mail.google.com/mail/#inbox	Inbox (1) - mcavoys87@gmai	il.com - Gmail					
url	2017-01-27 17:08:12.501	https://mail.google.com/mail/#inbox/159d0e02b296fde4	Sarah, get more out of your	new Android device - mcavoys87@gmail.com - Gmail					
url	2017-01-27 17:08:14.645	https://mail.google.com/mail/#inbox	Inbox (1) - mcavoys87@gmai	il.com - Gmail					

Hindsight Internet	Hindsight Internet History Forensics (v2023.03)							
Type ,T	Timestamp (UTC)	URL JT	Title / Name / Status	Data / Value / Path				
3 url	2017-01-27 17:29:19.594	https://www.facebook.com/	(1) Facebook					
1 url	2017-01-27 17:29:25.297	https://www.facebook.com/sarah.mcavoy.9638	Sarah Mcavoy					
2 url	2017-01-27 17:29:25.426	https://www.facebook.com/sarah.mcavoy.9638	Sarah Mcavoy					
4 url	2017-01-27 17:29:30.146	https://www.facebook.com/sarah.mcavoy.9638	Sarah Mcavoy					
4 url	2017-01-27 17:42:54.117	https://www.facebook.com/sarah.mcavoy.9638#	(2) Sarah Mcavoy					
5 url	2017-01-27 17:42:54.634	https://www.facebook.com/sarah.mcavoy.9638#	(2) Sarah Mcavoy					
6 url	2017-01-27 17:42:55.892	https://www.facebook.com/sarah.mcavoy.9638#	(2) Sarah Mcavoy					
7 url	2017-01-27 17:42:56.829	https://www.facebook.com/sarah.mcavoy.9638#	(2) Sarah Mcavoy					

Hindsight Inter	net History Forensics (v202	3.03)		
Туре		_		▼ Data / Value / Path
download	2017-01-27 01:05:43.967	https://upload.wikimedia.org/wikipedia/commons/thumb/3/39/At	Complete - 100% [12121/	/121 C:\Users\Sarah M\Downloads\Luna Owl.jpg
download	2017-01-27 01:16:17.426	http://www.ncwildlife.org/Portals/0/Learning/documents/Profiles/	Complete - 100% [355574	4/35 C:\Users\Sarah M\Downloads\Great Horned Owl Info.pdf
download	2017-01-27 01:47:51.888	https://get.skype.com/go/getskype-windows	Complete - 100% [439188	808/ C:\Users\Sarah M\Downloads\SkypeSetupFull.exe
download		https://get.skype.com/go/getskype		808/ C:\Users\Sarah M\Downloads\SkypeSetupFull.exe
download	2017-01-27 01:47:51.888	https://download.skype.com/f0ea4d7f41d9561cc0d5b27925a74910/p	Complete - 100% [439188	808/ C:\Users\Sarah M\Downloads\SkypeSetupFull.exe
download	2017-01-27 17:19:12.131	https://mail.google.com/mail/?ui=2&ik=411bfb1f1f&view=att&th=1	Complete - 100% [64476/	/644 C:\Users\Sarah M\Downloads\Great Horned Owl.jpg
download	2017-01-27 17:19:12.131	1 https://mail-attachment.googleusercontent.com/attachment/?ui=2	Complete - 100% [64476/	/644 C:\Users\Sarah M\Downloads\Great Horned Owl.jpg
download	2017-01-27 17:19:14.359	https://mail.google.com/mail/?ui=2&ik=411bfb1f1f&view=att&th=1	Complete - 100% [94519/	/945 C:\Users\Sarah M\Downloads\Pygmy Owl.jpg
download	2017-01-27 17:19:14.359	https://mail-attachment.googleusercontent.com/attachment/?ui=2	Complete - 100% [94519/	/945 C:\Users\Sarah M\Downloads\Pygmy Owl.jpg
download	2017-01-27 17:19:16.139	https://mail.google.com/mail/?ui=2&ik=411bfb1f1f&view=att&th=1	Complete - 100% [594898	32/5 C:\Users\Sarah M\Downloads\Snowy Owl.jpg
download	2017-01-27 17:19:16.139	https://mail-attachment.googleusercontent.com/attachment/?ui=2	Complete - 100% [594898	32/5 C:\Users\Sarah M\Downloads\Snowy Owl.jpg
download	2017-01-27 17:33:16.765	https://mail.google.com/mail/?ui=2&ik=411bfb1f1f&view=att&th=1	Complete - 100% [10051/	/100 C:\Users\Sarah M\Downloads\Snowy Owl 2.jpg
download	2017-01-27 17:33:16.765	https://mail-attachment.googleusercontent.com/attachment/?ui=2	Complete - 100% [10051/	/100 C:\Users\Sarah M\Downloads\Snowy Owl 2.jpg
download	2017-01-27 17:33:18.234	https://mail.google.com/mail/?ui=2&ik=411bfb1f1f&view=att&th=1	Complete - 100% [74943/	/749 C:\Users\Sarah M\Downloads\Snowy Owl 3.jpg
download	2017-01-27 17:33:18.234	https://mail-attachment.googleusercontent.com/attachment/?ui=2	Complete - 100% [74943/	/749 C:\Users\Sarah M\Downloads\Snowy Owl 3.jpg
download	2017-01-27 17:33:19.630	https://mail.google.com/mail/?ui=2&ik=411bfb1f1f&view=att&th=1	Complete - 100% [349627	71/3 C:\Users\Sarah M\Downloads\Snowy Owl 4.jpg
download	2017-01-27 17:33:19.630	https://mail-attachment.googleusercontent.com/attachment/?ui=2	Complete - 100% [349627	71/3 C:\Users\Sarah M\Downloads\Snowy Owl 4.jpg
download	2017-01-28 22:34:20.181	https://s-media-cache-ak0.pinimg.com/236x/69/d4/55/69d4553fcad	Complete - 100% [18285/	/182 C:\Users\Sarah M\Downloads\Cool picture of a tiger maybe wallhanging.jpg
download	2017-01-28 22:36:33.987	data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEA	Complete - 100% [9707/9	7707 C:\Users\Sarah M\Downloads\Background.jpg
download	2017-01-31 19:08:56.141	1 http://www.owlpages.com/download/Owl_Emergency_Care.pdf	Complete - 100% [142534	4/14 C:\Users\Sarah M\Downloads\Owl_Emergency_Care.pdf
download	2017-01-31 19:09:08.662	http://www.owlpages.com/download/Owl_Keeping.pdf	Complete - 100% [218461	I/21 C:\Users\Sarah M\Downloads\Owl_Keeping.pdf
download	2017-01-31 19:12:14.687	7 http://dnr2.maryland.gov/wildlife/Documents/Snowy_Owl.pdf	Complete - 100% [593265	5/59 C:\Users\Sarah M\Desktop\Snowy_Owl.pdf
download	2017-01-31 19:12:43.719	http://www.globalowlproject.com/snowy-owl/Bibliography%20-%2	Complete - 100% [396800	0/39 C:\Users\Sarah M\Downloads\Bibliography - Snowy Owl 14 April 2014 - GLOW posting.x
download	2017-01-31 19:14:57.544	4 http://dnr2.maryland.gov/wildlife/Documents/Snowy_Owl.pdf	Complete - 100% [593265	5/59 C:\Users\Sarah M\Desktop\Snowy_Owl.pdf
download	2017-01-31 19:21:13.808	http://www.fosc.org/Sightings2005.xls	Complete - 100% [112128	B/11 C:\Users\Sarah M\Downloads\Sightings2005.xls
download	2017-01-31 19:22:01.756	http://www.fosc.org/Sightings2005.xls	Complete - 100% [112128	B/11 C:\Users\Sarah M\Downloads\Sightings2005 (1).xls
download	2017-01-31 19:26:59.107	http://www.nwf.org/~/media/Content/Animals/Reptiles%20and%2	Complete - 100% [44730/	/447 C:\Users\Sarah M\Desktop\Next pet.jpg
download	2017-02-01 16:59:24.573	https://downloads.sourceforge.net/project/pidgin/Pidgin/2.11.0/pi	Complete - 100% [925622	24/9 C:\Users\Sarah M\Downloads\pidgin-2.11.0.exe
download	2017-02-01 16:59:24.573	https://superb-sea2.dl.sourceforge.net/project/pidgin/Pidgin/2.11.	Complete - 100% [925622	24/9 C:\Users\Sarah M\Downloads\pidgin-2.11.0.exe
download	2017-02-01 17:05:32.243	https://downloads.sourceforge.net/project/pidgin/Pidgin/2.11.0/pi	Complete - 100% [925622	24/9 C:\Users\Sarah M\Downloads\pidgin-2.11.0 (1).exe
download	2017-02-01 17:05:32.243	https://superb-sea2.dl.sourceforge.net/project/pidgin/Pidgin/2.11.	Complete - 100% [925622	24/9 C:\Users\Sarah M\Downloads\pidgin-2.11.0 (1).exe
download	2017-02-02 22:25:03.628	https://s.yimg.com/jd/desktop/0.8.288/yahoo-messenger-0.8.288-w	Complete - 100% [469668	300/ C:\Users\Sarah M\Downloads\yahoo-messenger-0.8.288-win32.exe
download	2017-02-02 22:51:41.348	https://www.flickr.com/photos/142118881@N02/28036340661/in/pl	Complete - 100% [49/49]	C:\Users\Sarah M\Desktop\WOLf Awsome.html
dowrlipadMay	202 52017-02-02 22:52:25.48 7	7 https://www.flickr.com/photos/95843423@N03/9851468684/ଜନ୍ମ ଯାସ	©CompileteVin1000%[49/49]	C:\Users\Sarah M\Desktop\what is this.html

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			_			
2017-01-27 01.05.00.337 https://www.google.com//epthephrosurcel-cf-rome-instant/far-Cl Searche for "onlythouse setting"			_			
2017-01-270158-34-90 https://www.google.com/webp/Psourceidentome-instantRistractions						
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url	2017-01-27 17:04:37.620 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/l& how to care for a owl - Google Search	Searched for "purchase a snowy owl in the united states" [Typed "wl
url	2017-01-27 17:04:52.529 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/l& how to care for a owl - Google Search	Searched for "purchase a snowy owl in the united states" [Typed "wl
url	2017-01-27 17:05:33.404 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/l& where to keep a snowy owl - Google Search	Searched for "how to care for a owl" [Typed "where to keep a snowy
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url	2017-01-27 17:05:57.984 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/I& where to keep a snowy owl - Google Search	Searched for "how to care for a owl" [Typed "where to keep a snowy
url	2017-01-27 17:05:58.226 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/l& how to care for a owl - Google Search	Searched for "purchase a snowy owl in the united states" [Typed "wl
url	2017-01-27 17:06:00.610 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/I& where to keep a snowy owl - Google Search	Searched for "how to care for a owl" [Typed "where to keep a snowy
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url	2017-01-27 17:06:32.276 https://www.google.com/search?q=where+to+keep+a+snowy+ow	/I& where to keep a snowy owl - Google Search	Searched for "how to care for a owl" [Typed "where to keep a snowy
url	2017-01-27 17:29:54.659 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	C1 Google	Searched for "harry potter.com" [Using chrome-instant]
url	2017-01-27 17:30:01.846 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	C1 Google	Searched for "harry potter.com" [Using chrome-instant]
url	2017-01-27 17:30:06.823 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	C1	Searched for "amazon" [Using chrome-instant]
url	2017-01-27 17:31:03.290 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	C1 birdtrader.com - Google Search	Searched for "birdtrader.com" [Using chrome-instant]
url	2017-01-28 21:51:01.471 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10		Searched for "harry potter screenplay" [Using chrome-instant]
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url	2017-01-28 22:15:45.713 https://www.google.com/#q=falcons	falcons - Google Search	Searched for "falcons"
url	2017-01-28 22:15:52.953 https://www.google.com/#q=falcons+birds	Google	Searched for "falcons birds"
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url	2017-01-28 22:26:13.468 https://www.google.com/#q=gmail	gmail - Google Search	Searched for "gmail"
url	2017-01-28 22:32:25.230 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	C1	Searched for "mystical bengal tiges" [Using chrome-instant]
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url	2017-01-28 22:38:13.733 https://www.google.com/search?q=athena+with+an+owl+artistic8	&b Physics notes - Google Search	Searched for "Physics notes" [Browser screen 1536x710]
url	2017-01-28 22:39:39.861 https://www.google.com/#q=etsy	etsy - Google Search	Searched for "etsy"
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Hindsight Internet History Forensics (v2023.03)					
Туре	,▼ Timestamp (UTC) ▼ URL	▼ Title / Name / Status	▼ Data / Value / Path	▼ Interpretation	5
url	2017-01-28 22:38:13.733 https://www.google.com/search?q=athena+with+an+owl+artistic&b Physics notes - Google Search			Searched for "Physics notes" [Browser screen 1536x710]	
url	2017-01-28 22:39:39.861 https://www.google.com/#q=etsy	etsy - Google Search		Searched for "etsy"	
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url	2017-01-30 19:22:12.062 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	1C1		Searched for "Logan movie" [Using chrome-instant]	
url	2017-01-30 19:24:15.299 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	1C1		Searched for "Logan trailer" [Using chrome-instant]	
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url	2017-01-31 19:20:57.753 https://www.google.com/webhp?sourceid=chrome-instant&rlz=10	1C1		Searched for "Owl wingspans" [Using chrome-instant]	
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url	2017-01-31 19:25:43.288 https://www.google.com/webhp?sourceid=chrome-instant&rlz=1C1 snowy owl wingspans - Google Search			Searched for "snowy owl wingspans" [Using chrome-instant	t]
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url	2017-02-02 22:24:05.762 https://www.google.com/#q=yahoo+messenger			Searched for "yahoo messenger"	