Optimize Making The Timeline

and yet it does move malware.co.kr

- dorumugs -

Log2Timeline

- The tool is written in Perl for Linux
- A framework for automatic creation of a super timeline.
- The main purpose is to provide a single tool to parse various log files and artifacts found on suspect systems.
- A timeline that can be analysed by forensic

Log2Timeline for Windows

Heavy

When Examiner analyzes the images,
 VMware is heavy.



http://katerawlings.com/2010/08/19/looking-for-heavy-metcons/

Windows Ver

- But It is not working. because we use unicode(korean).
- http://log2timeline.net/INSTALL.txt



Fix Log2Timeline +_+



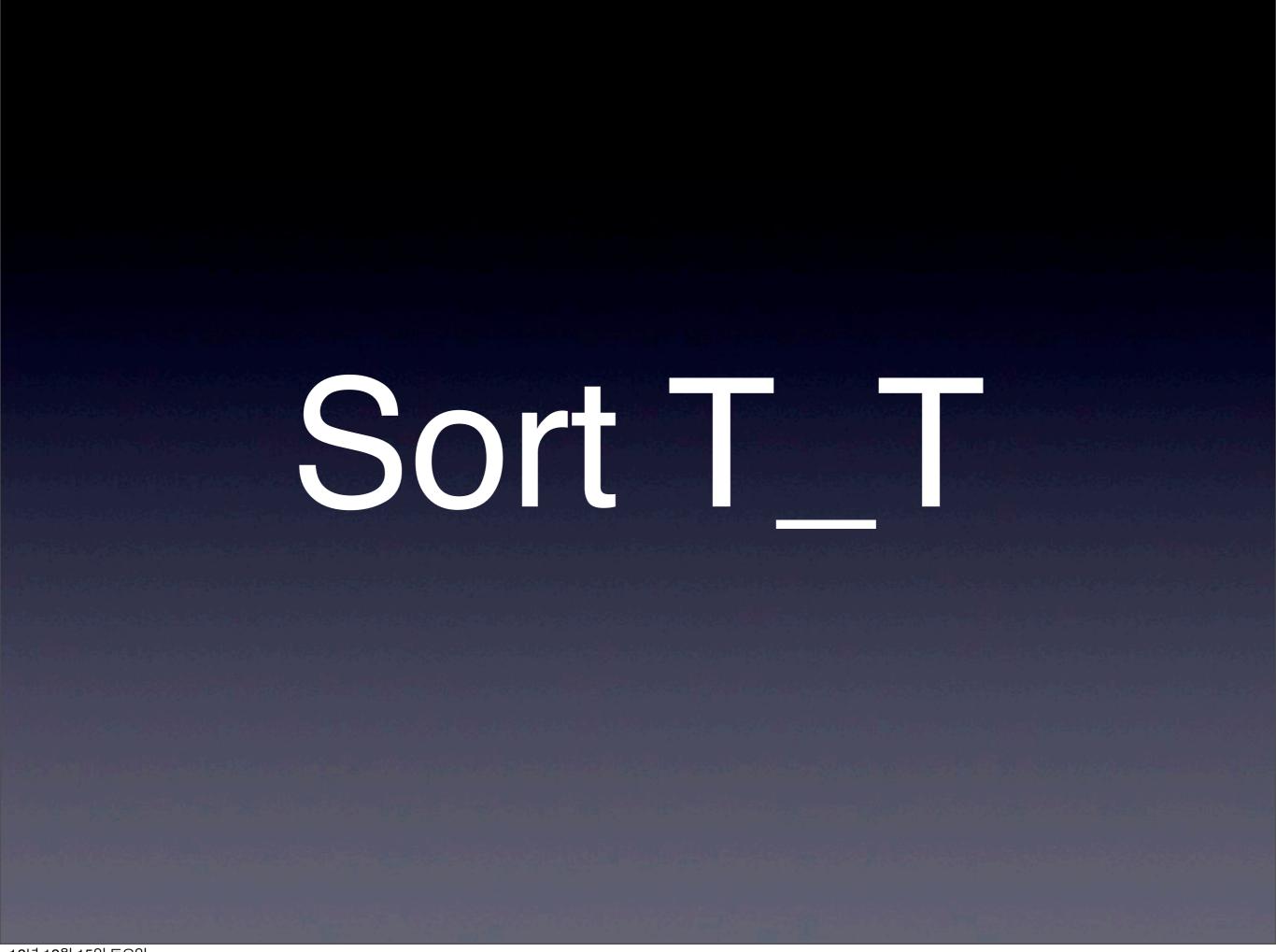
http://fixthispcnow.webs.com/virusremovalservice.htm

Test! ^

 perl log2timeline.pl -r -p -z Asia/Seoul -w bodyfile c:\timeline\lmage_name\

```
C:\strawberry>perl log2timeline -r -p -z Asia/Seoul -w aaa.txt c:\timeline\ms-dr
t\\
Start processing file/dir [c:\timeline\ms-drt\] ...
Starting to parse using input modules(s): [all]
[PreProcessing] Unable to retrieve information from Log2t::PreProc::user_browser

[PreProcessing] Unable to retrieve information from Log2t::PreProc::win_sysinfo
Loading output module: csv
mft file name c:\timeline\ms-drt\\C\$MFT
Run time of the tool: 583 seconds
```



12t_process

• 12t_Process is boring. because it takes a lot of times.



http://static4.businessinsider.com/image/4fbfb86becad044879000001-400-300/sleepy-tired-boring.jpg

Column(0) + Column(1)

	А	В	С	D	E	F		- 4	A	В	С	D	E	F
1	date	time	imezone	MACB	source	sourcetype	type	1	date_time	timezone	MACB	source	sourcetype	type
2	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	2	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
3	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	3	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
4	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	4	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
5	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	5	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
6	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	6	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
7	11/23/2012		Asia/Seoul		FILE	NTFS \$MFT	\$SI [.A] time	7	2012-11-23 22:16	Asia/Seoul	.A	FILE	NTFS \$MFT	\$SI [.A] time
8	10/31/2012	16:25:27	Asia/Seoul	M.C.	FILE	NTES SMET	\$SI [M.C.] time	8	2012-10-31 16:25	Asia/Seoul	M.C.	FILE	NTFS \$MFT	\$SI [M.C.] time
9	01/28/2010	9:59:35	Asia/Seoul	В	FILE	NTFS \$MFT	SSI [B] time	9	2010-01-28 9:59	Asia/Seoul	B	FILE	NTFS \$MFT	\$SI [B] time
10	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	10	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
11	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	11	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
12	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	12	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
13	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	13	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
14	01/28/2010		Asia/Seoul		FILE	NTFS \$MFT	\$SI [MACB] time	14	2010-01-28 9:59		MACB	FILE	NTFS \$MFT	\$SI [MACB] time
15	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	15	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
16	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	16	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
17	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	17	2010-01-28 9:59		MACB	FILE	NTFS \$MFT	\$SI [MACB] time
18	01/28/2010				FILE	NTFS \$MFT	\$SI [MACB] time	18	2010-01-28 9:59		MACB	FILE	NTFS \$MFT	\$SI [MACB] time
19	01/28/2010	9:59:35	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time	19	2010-01-28 9:59	Asia/Seoul	MACB	FILE	NTFS \$MFT	\$SI [MACB] time
20	01/28/2010	10:01:25	Asia/Seoul	B	FILE	NTFS \$MFT	\$SI [B] time	20	2010-01-28 10:01	Asia/Seoul	B	FILE	NTFS \$MFT	\$SI [B] time
21	11/23/2012	21:26:51	Asia/Seoul	M.C.	FILE	NTFS \$MFT	\$SI [M.C.] time	21	2012-11-23 21:26		M.C.	FILE	NTFS \$MFT	\$SI [M.C.] time
22	11/23/2012		Asia/Seoul		FILE	NTFS \$MFT	\$SI [.A] time	22	2012-11-23 21:16		.A	FILE	NTFS \$MFT	\$SI [.A] time
_	01/28/2010		Asia/Seoul		FILE	NTFS \$MFT	\$SI [B] time	23	2010-01-28 9:45		B	FILE	NTFS \$MFT	\$SI [B] time
24	01/28/2010	10:29:20	Asia/Seoul	MAC.	FILE	NTFS \$MFT	\$SI [MAC.] time	24	2010-01-28 10:29	Asia/Seoul	MAC.	FILE	NTFS \$MFT	\$SI [MAC.] time

Sort +_+

 Python log2_sort.py -i timeline.txt -o timelin.csv -n 1000000



For More Speed

- Gather just necessary files
 - No change time information
 - No change folder information

Prefetch

MFT

Link

OS Artifacts

SysLog

ETC

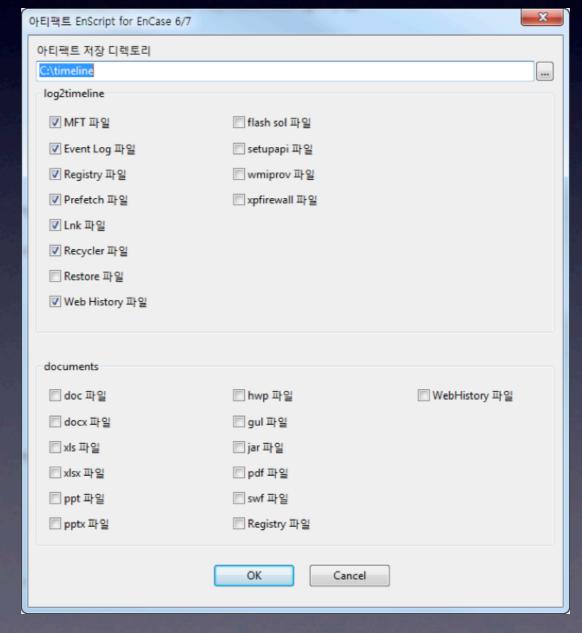
Event Log

Registry

HOW?

• EnScript is a perfect tool to gather OS

artifacts.



and then

- Run EnScript.
- Log2Timeline Windows ver
- Sort Bodyfile



But....

• If your timeline is crash, change the encoding from something to unicode.

텍스트 마법사 - 3단계 중 1단계
데이터가 너비가 일정함(으)로 설정되어 있습니다. 데이터 형식이 올바로 선택되었다면 [다음] 단추를 누르고, 아닐 경우 적절하게 선택하십시오.
원본 데이터 형식
원본 데이터의 파일 유형을 선택하십시오. ③ 구분 기호로 분리됨(<u>D</u>) - 각 필드가 쉼표나 탭과 같은 문자로 나누어져 있습니다.
○ 너비가 일정함(৬) - 각 필드가 일정한 너비로 정렬되며 인수되다 Unicode(UTF-8)
구분 시작 행(<u>H</u>): □
10081 : 터키어(Mac) 1254 : 터키어(Windows) 10017 : 우크라이나어(Mac)
C:₩strawberry₩aaa,txt 파일 미리 보기 165001 : 유니코드(UTF-7) 165001 : 유니코드(UTF-8) 20127 : US-ASCII
1 date, time, timezone, MACB, source, sourcetype, type, user, host, short, desc, version, filename, inode, not 2 12/07/2008, 04:53:38, Asia/Seoul, MACB, FILE, NTFS \$MFT, \$SI [MACB] time, -, -, /\$MFT, /\$MFT, 2, /\$MFT, 0,
3 12/07/2008,04:53:38,Asia/Seoul,MACB,FILE,NTFS \$MFT,\$SI [MACB] time,-,-,/\$MFTMirr,/\$MFTMirr,2,/ 4 12/07/2008,04:53:38,Asia/Seoul,MACB,FILE,NTFS \$MFT,\$SI [MACB] time,-,-,/\$LogFile,/\$LogFile,2,/
취소 〈뒤로(B) 다음(N)〉 마침(E)

