508.4 - Timeline Analysis

Malware Discovery 5-17
Anomaly detection5-17
Temporal analysis (timelining)5
YARA patterns6-8
Overview6
Example7
yara64.exe8
Density s cout – Entropy analysis9-11
Overview9
Example11
sigcheck.exe — Signature checking12-13
Overview12
VirusTotal checking with sigcheck13
capa – Enumerate Malware Capabilities 14-16
Overview14
Usage15
Example16
Putting it all together17
Timeline Analysis
Timeline Analysis
Timeline Analysis 19-116 Timeline analysis overview 22-47 Benefits 22 Utopia vs. Reality 23-24 Windows Forensic Trinity 25 FS metadata, Windows artifacts, Registry 25 Windows Forensics Artifact Review 26-42 The pivot point 43-44 Temporal proximity 43
Timeline Analysis 19-116 Timeline analysis overview .22-47 Benefits .22 Utopia vs. Reality .23-24 Windows Forensic Trinity .25 FS metadata, Windows artifacts, Registry .25 Windows Forensics Artifact Review .26-42 The pivot point .43-44 Temporal proximity .43 How do you find the pivot point? .44
Timeline Analysis
Timeline Analysis 19-116 Timeline analysis overview 22-47 Benefits 22 Utopia vs. Reality 23-24 Windows Forensic Trinity 25 FS metadata, Windows artifacts, Registry 25 Windows Forensics Artifact Review 26-42 The pivot point 43-44 Temporal proximity 43 How do you find the pivot point? 44 Timeline context dues 45 Timeline tool capabilities 46
Timeline Analysis

FAT time vs NFTS time	5
Windows time rules cheatsheet	5
Time rule exceptions	5
Lateral movement time rule example	5
Unders tanding filesys tem timeline format	56-5
How-to: Creating triage timeline	58-6
Creating triage timeline step 1: Bodyfile	58-6
MFTECmd.exe	58-5
fls	6
Creating triage timeline step 2: mactime	61-6
Super Timeline	66-8
Ove view	6
Lateral movement example	6
Malware installation example	7
Plaso & log2timeline.py	72-8
Overview	7
Plaso parsers	73-7
Windows parsers (win_gen, winxp, win7).	73-7
Registry parsers (winreg)	75-7
Webhistory parsers (webhist)	7
Linux/Android/Mac parsers	78-7
log2timeline.py usage	80-8
Overview	8
Examples	8
Targeted Super Timeline creation	85-9
Overview	85-8
log2timeline.py	87-8
Parser presets	8
Filter files	88-8
Triage artifacts list	9
Triage image timelining	9
Filtering the Super Timeline	94-10
ʻpinfo.py' – Plaso da tabase info	94-9
'psort.py' – Filtering timeline	99-10
Web server intrusion example	10
Remote timeline creation example	10

Super Timeline analysis	105-116
Timeline output (CSV)	105-108
Recommended columns	109
Timeline Explorer	111-112
Timeline analysis process	113
Scaling timeline analysis	116
yara_match.py	116
Splunk	116
ELK	116