IR Timeline Analysis -Tryhackme Writeup

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Learn about timeline analysis using various tools and scenarios.

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https://tryhackme.com/signup?referrer=633819acb90069005f4fd623.

Link to the room https://tryhackme.com/r/room/dfirtimelineanalysis

Task 1:Introduction

In digital investigations, the more forensic data you have, the more complex things will be to process and analyze. It is, therefore, important to establish a sequence of events by extracting vital information and identifying a chronology of events that would have resulted in a breach or security incident. As forensic analysts, we delve deep into the intricate layers of digital artifacts to reconstruct the sequence of events, uncovering crucial details that shed light on the who, what, when, and how of a cyber incident. In this room, we embark on a journey to master the art of timeline analysis, learning how to wield tools like Log2Timeline with finesse to extract actionable intelligence from the vast sea of data contained within disk images.

Task 2:Basics of Timeline Analysis

> *When security events are reviewed sequentially against time, what is this known as?*

Ans: Timeline Analysis

> *When a file is created, what timestamp tag would it have?*

Ans: birth

> **Converting event timestamps into UTC can be described as?**

Ans: Time synchronization

Task 3:Artifact Acquisition & Processing

> *What specific data source provides detailed information regarding user interactions within a digital environment?*

Ans: File system metadata

Task 4:Timelines with Log2Timeline

> *What argument is used with Log2Timeline to indicate our output file?*

Ans: — storage-file

> *Based on the Jimmy_timeline.plaso file, how many event sources are parsed after running `pinfo.py` against the storage file?*

Ans: 4982

> **On the same timeline file, how many events were generated for the firefox_history?**

Ans: 50

> *Based on the B4DM755 timeline, what time was the interview.txt file created? (hh:mm:ss)*

Ans: 14:02:34

Create a Plaso file then a CSV file and investigate it.

Task 5:Timeline Analysis with Timesketch

> *How many data types were in the Jimmy Supertimeline sketch?*

Ans: 48

> *How many entries were in the EVTX Gap Analysis under the Jimmy Supertimeline?*

Ans: 34870

> *Which search engine did Jimmy Wilson use to search for "how to disappear without a trace?"*

Ans: bing

Search through the browser search records from the Analyzer.

> *What is the path of the program that was called to initiate Microsoft Antimalware Service?*

Ans: C:\Program Files\Microsoft Security Client\MsMpEng.exe

check the graph

Task 6:Timeline Analysis Practical

> *How many event sources were identified?*

Ans: 189100

Run pinfo.py against the timeline.

> *How many events were generated from the* `dpkg` *parser?*

Ans: 14718

> *How many total tags were set?*

Ans: 5408

psort.py -o null — analysis tagging — tagging-file tag_linux.txt Timeline_Challenge.plaso

> *What is the highest tagged element?*

Ans: login_failed

> *Under which username does the cronjob that executes app.py run?*

Ans: smokey

Check the syslog:cron:task_run data type on Timesketch

> *What is the hash of the successful SSH login with the PID 1669?*

Ans: a2407e0f3c80d01d2369f15e2b8aa279e790eaa0b1d20ab71cd35c2c7f5aee71

Check the syslog:ssh:login data type on Timesketch

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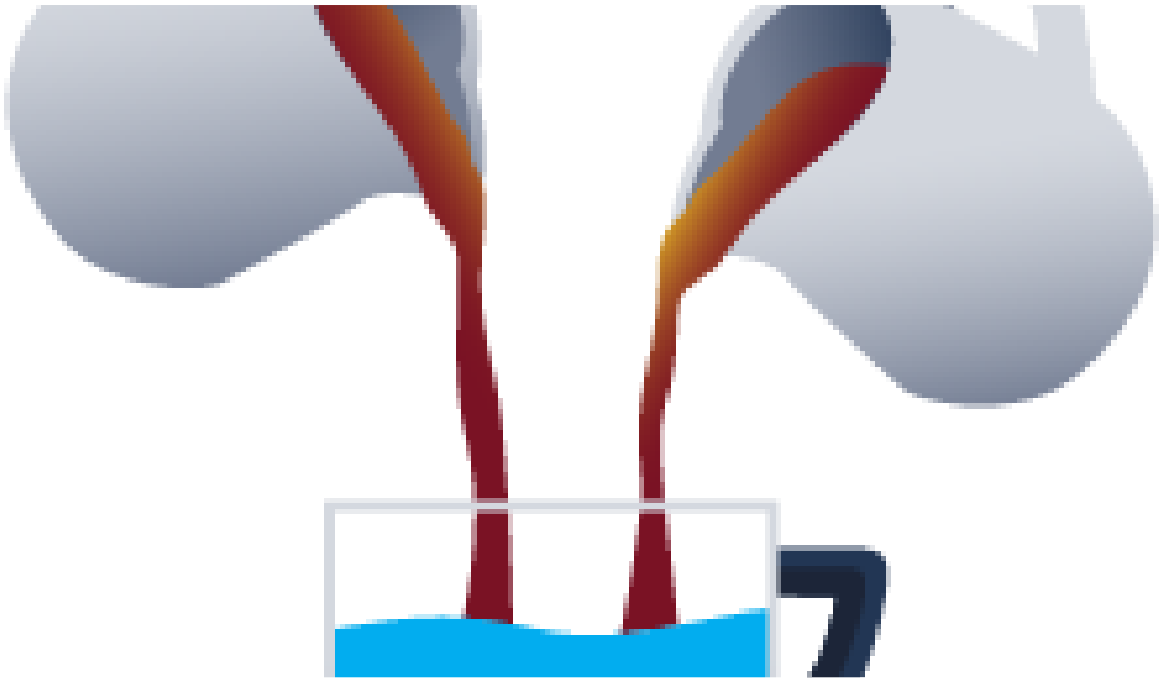

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