
Your workflow



is NOT

my workflow!

SANS DFIR Summit EU - 2014

A short rant about “tool imposed workflow”
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Google™



Your workflow is NOT my workflow!

- Stop the BS: ~~super timeline, sniper forensics~~ “Whatever works (most optimal) for you.”
 - Incident Response: first triage then analyze
 1. Hypothesize; first ask the 5-w’s:
who, what, when, where, why (and how?)
 2. Determine scope and priority:
What do I need? ~~Now~~ Yesterday, what can wait?
 3. Start collecting data and analyzing:
How many systems? Where? Do I call in support?
 4. Continuously revisit points 1, 2, 3.
 5. Aftercare: Peer review, fix issues and/or tooling.
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Get Security.Evtx of a volume snapshot from a BitLocker image

- Steps: start case?, add evidence?, preserve evidence and wait?, BDE support?, VSS support?, process evidence and wait?, EVTX + message strings support?
 - The suite, e.g. <enter name here> versus the toolbox e.g. SIFT
 - How about x 10 systems. Can I script it?
 - Remote location(s)? Do I need a dongle?
 - How interact with 3rd party tools?
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My ideal tooling

1. Does not get in the way of the analysis!
2. No dongle!
3. Supports one-off scripts, targeted analysis and auto-processing.
4. Allows for analysis and exploring, also useful for research purposes.
5. Easily adaptable and extendable.
6. Be transparent all the way.
7. ...



What has been achieved

- 2006: “Timelining with mactime is better than most other tools. Alas it only reads RAW. Why not have the SleuthKit read the E01 format?” => libewf
- 2009: “We have this mactime timeline, why not include more time sources into it?” => log2timeline
- 2012/2013: “What I really need is a forensic Swiss army knife” => plaso + libyal

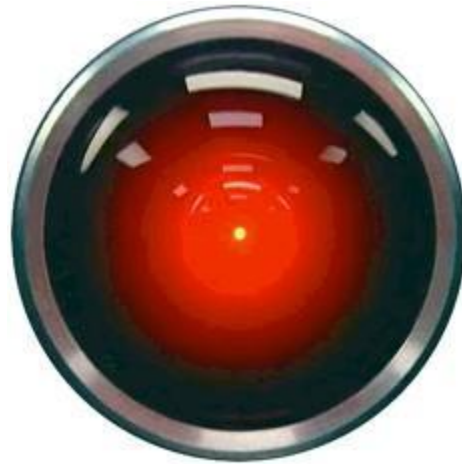


What I want to achieve

- Domain knowledge reuse
 - Enriching data
 - Forensic artifacts
 - Visualization
 - Heatmaps, clustering, charts, tree/graphs
 - Automated analysis support
 - Better one-off script support, e.g. pyvfs
 - Semantic technology: AFF4, GRR semantic proto
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Conclusion

~~“I'm sorry, Dave, I'm afraid I can't do that.”~~



Have the tools work for you! Not vice versa.

References

Google logo (Used with permission)

Digital chalk outline (Creative Commons)

http://www.forensicswiki.org/wiki/File:Joachim_Metz.jpeg

swiss army knife (Creative Commons)

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Plaso logo (Used with permission)

https://lh6.googleusercontent.com/lmix4Wnn8v_wXcv4vXdXwzOzIFuiV6i5uVvUm2_8F6FMY7Qjze-gcHLiugFjwsOdNn9s5aVrk94diS2kRumQPPPZZHLzNq1VdSk8vSuoHrqPwCot1RoifA6UMU

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