

Week in the Life of a DFIR

**Elizabeth Schweinsberg
@bethlogic**

Motivation

What my friends think I do



What my mom thinks I do



What IT thinks I do



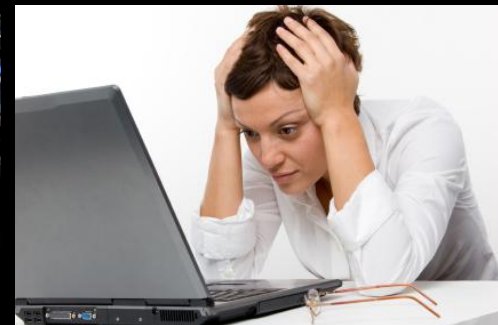
What my cat thinks I do



What I think I do



What I really do



Calendar

Today



May 19 – 25, 2013

Day

Week

Month

4 Days

Agenda

More



CREATE

Sun 5/19

Mon 5/20

Tue 5/21

Wed 5/22

Thu 5/23

Fri 5/24

Sat 5/25

GMT-08

May 2013

S	M	T	W	T	F	S
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

My calendars

Other calendars

Time	Sun 5/19	Mon 5/20	Tue 5/21	Wed 5/22	Thu 5/23	Fri 5/24	Sat 5/25
6am							
7am							
8am							
9am		9:30 – Weekly Sync	9:30 – 11:30 Research Block		9:30 – Install Java Plugin		
10am					10 – 12p SANS Webinar: Detecting Persistence Mechanisms		
11am			11:30 – 12:30p Taco Tuesday!	11:30 – 1p Respond to Phishing reports			
12pm					12p – 1p Uninstall Java plugin		
1pm		12:30p – 4p Research Block			1p – 5p Write a Plaso Plugin on the Webinar		
2pm							
3pm							
4pm		4p – 5:30p Happy Hour				4p – 5p Happy Hour	
5pm							
6pm							
7pm							
8pm							
9pm							
10pm							
11pm							

Monday 9:30

Weekly Sync meeting with partner teams

It was a quiet weekend... too quiet...

Monday 10:23

**SNORT ALERT FOR A JAVA EXPLOIT ON A MACBOOK..
IN PRAGUE**

- Have a local Tech remove drive from laptop and connect to your server for imaging
 - Calculate hashes
 - Copy drive to filer
 - Check hashes
- Start log2timeline massive processing on the image and have a beer with co-workers before heading home

Tuesday

- Read twitter and catch up on blogs - Research IDXs for today's case
 - A great blog tells you all you need to do!
 - <http://computer-forensics.sans.org/blog/2013/02/16/idx-sample-file-malware>
- Head to lunch for Taco Tuesday
- Investigate the image from yesterday
 - Get an IDX parser from your research -- Perl or Python?
 - Use the timeline, grep, and icat to extract the IDX files
 - Data reduction -- my timeline is 2GB! Where to begin?
 - Web history for that day
 - Process execution
 - Packet capture from the Snort alert
- Write a plaso plug in to make this easier next time

Tuesday, during NCIS:LA..

DNS HIJACK ALERT FOR YOUR .FN CC TLD

Receive an alert from our 3rd party monitoring system that the DNS resolution our cc tld for Florin (.fn) has been redirected to a non-corporate site.

- Confirm that webfu.fn is not pointing to our page anymore
 - Grab a screenshot, check whois, and check dig to collect intel
- Get someone to redirect
- Work with your Domain Management company to contact the registry
- Give PR a heads up

Wednesday

- Bug the Domain Monitoring company to get a postmortem from the .fn registrar
- Respond to emails about reports of phishing
 - Get headers and look into the origins of the email
 - Search Google for reports
 - Reassure your coworkers that it's standard spam and nothing targeted

Wednesday 13:43

LOST LAPTOP WITH CONFIDENTIAL DATA

A financial analyst reports that her car was broken into while she was at dinner the night before and her work bag containing her work laptop, RSA token, and tablet with corporate data access were stolen.

- Get her to change her password, and revoke any other access like OAuth tokens
- Look at her account access for the last day -- no unusual locations
- Talk to her about confidential data and if she had any on her laptop
- Talk to the lawyers about what she reports

Thursday

- Install Java plugin for Firefox on Linux system
- Watch a SANS webcast -- Detecting Persistence Mechanisms
- Uninstall the Java plugin
- Write a plaso plugin inspired by SANS webcast

Thursday 15:07

FIREEYE ALERT FOR A MALICIOUS FILE DOWNLOAD

- Connect to GRR to investigate
- Run the Chrome History flow
- Find out there was more than one Chrome profile, so go back and run that flow on all the profiles
- Pull down Registry files and Windows Evtx files
- Run plaso on them for a timeline
- Catch the original website that redirected to the malicious one, see the file downloaded, and execution stopped by Bit9
- Feed the URLs to the Safe Browsing team, upload to VirusTotal

Friday

- Quick analysis of the binary -- it was just the dropper
 - Run the dropper in a sandbox and allow it to get the main file
 - Do some static and dynamic analysis to get the C2 info out
 - Write a Snort signature to detect the dropper and main file
- Finish the plaso plugin you started on Thursday...
- Have a beer with coworkers, and head out for a hopefully quiet weekend

CREATE ▾

▼ May 2013 < >

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► My calendars ▾

► Other calendars ▾

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6am							
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9am							
10am		9:30 – Weekly Sync	9:30 – 11:30 Research Block: IDX	10 – 11:30 Follow up on Domain Hijack	9:30 – Install Java Plugii	10 – 12:30p Malware Analysis Morning	
11am		10:30 – 11:30 Snort Alert: Java Exploit on a MRP		11:30 – 1p Respond to Phishing reports	10 – 12p SANS Webinar: Detecting Persistence Mechanisms		
12pm		11:30 – 12:30p Get Tech to Image Drive	11:30 – 12:30p Taco Tuesday!		12p – 1p Uninstall Java plugin		
1pm		12:30p – 1:30p Hash/Copy/Hash	12:30p – 4p Dive into the timeline	1:30p – 4p Lost Laptop: Confidential Data lost	1p – 3p Write a Plaso Plugin on the Webinar		
2pm		2p – 12 Run log2timeline...				2p – 3:30p Fix plaso plugin after code review	
3pm					3p – 6p Fireeye Alert: Malware downloaded!		
4pm		4p – 5:30p Happy Hour	4p – 5:30p Write a Java IDX plugin			4p – 5p Happy Hour	
5pm							
6pm							
7pm							
8pm							
9pm			9p – 10:30p Website's DNS Hacked				
10pm							
11pm							