No Fuss FOSS

Free and Open Source SOC



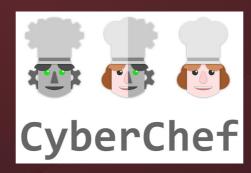














Cortex

Why a FOSS?

Security products are expensive

- It can be hard to get budget for new products.
- If you have some time and skills though you can replicate 80%+ of the big price tag products with open source

How do we build a FOSS?

Quality open source projects

Open source versions of vendor products

Free subscription level to security services

What do we need?

- At least 1 server(VM, physical, or cloud)
- Some scripting capabilities
 - I use bash and python in my implementation
- (Free) Subscription to various security services
- A few email accounts

TheHive



Open source project

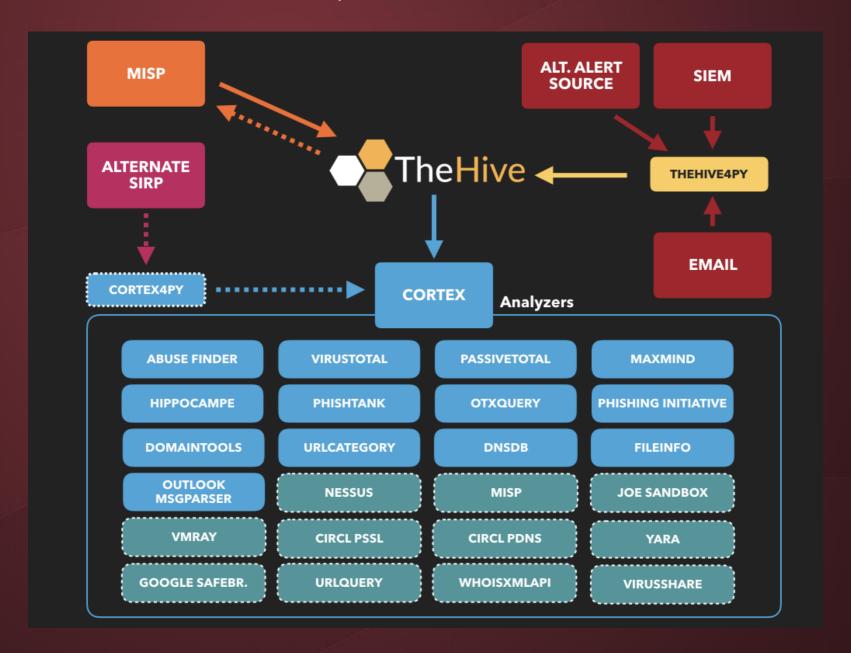
- SoC ticketing, noting, and centralized database for incident reporting, tracking, and investigating.
- Web front end
- Elasticsearch DB backend

Cortex

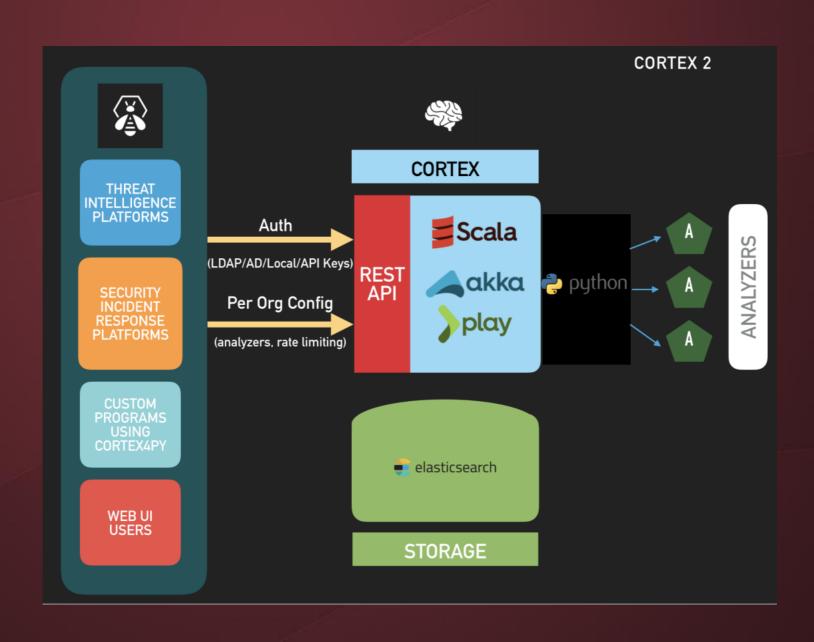


- Companion to TheHive
 - Comprised of analyzers that you can run against 'observables'
 - Can be run independent
 - You can create your own analyzers in python using api's

TheHive/Cortex Stack



TheHive/Cortex Stack



Canaries



- While thinkst sells commercial products they offer Open Source version of many of their tools
 - Open Canary kind of honeypot
 - Canary tokens alerting base on honeyfiles

'Intelligence'





• Use both open source and free intel

- Talos Inteligence
- Cymon
- Urlscan.io
- Phishtank
- Openphish
- Alienvault OTX
- Threatconnect
- Passivetotal / riskiq

Feed tools to TheHive

- UrlScan2Hive
- Imap2thehive

Scanning





While traditional AV can be useful to run standard on endpoints step up you response/hunt capabilities with custom signatures for your environment.

- ClamAV Sigtool
- Yara yarGenDeploy with scripts
- Blazescan
- Minerchk

Sandboxes





While you can totally go out and build a cuckoo sandbox or other sandbox solution, let's use some easy and free services to get started.

- Virus total
- Reverse.it / Hybrid Analysis

Infosec Swiss Army tool

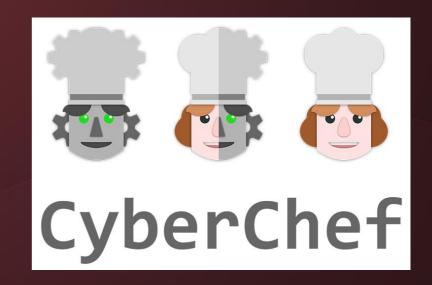
Cyberchef

- Great tool full of many easy to use utilities
- Counting, Extracting, beautifying
- Conversion between formats
- Deobfuscation

Other online options:

https://www.unphp.net/

https://www.javascriptdeobfuscator.com/



Slides posted to laskowski-tech.com

Resources TheHive tools

- TheHive https://github.com/TheHive-Project/TheHive
- Cortex https://github.com/TheHive-Project/Cortex
- Hive4py
 https://github.com/TheHive-Project/TheHive4py
- Cortex4py
 https://github.com/TheHive-Project/Cortex4py

Resources 2

Canaries

- Open Canary https://github.com/thinkst/opencanary
 - Setup guide
 - https://laskowski-tech.com/2017/12/19/setting-up-a-honey pot-using-opencanary/
- Canarytokens https://canarytokens.org/generate

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Scanning

- ClamAV, Clamscan, sigtool
 https://www.clamav.net/downloads
- Yara https://virustotal.github.io/yara/
- yarGen https://github.com/Neo23x0/yarGen

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Cyberchef

• https://github.com/gchq/CyberChef

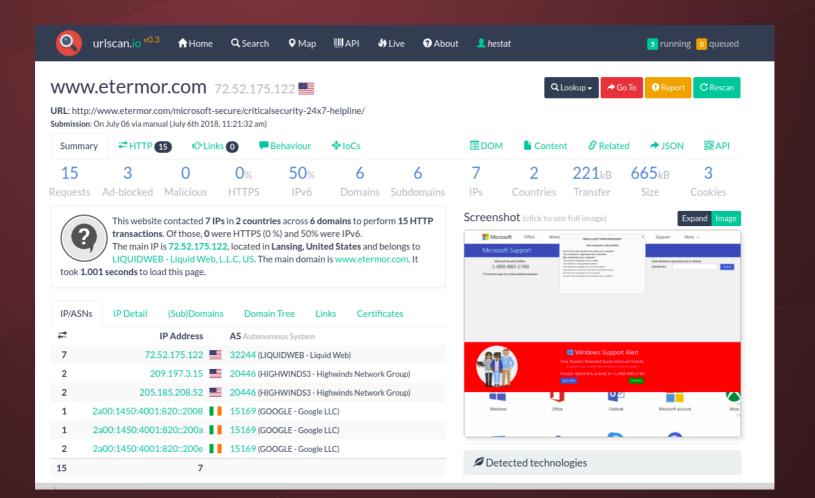
My scripts and sigs:

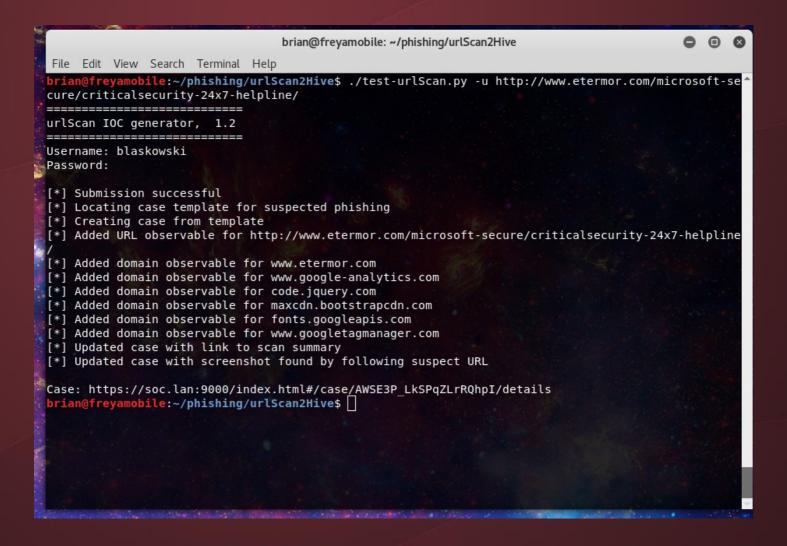
```
https://github.com/Hestat/minerchk
https://github.com/Hestat/blazescan
https://github.com/Hestat/lw-yara
https://github.com/Hestat/vt.py
https://github.com/Hestat/cryptojacking-scanner
```

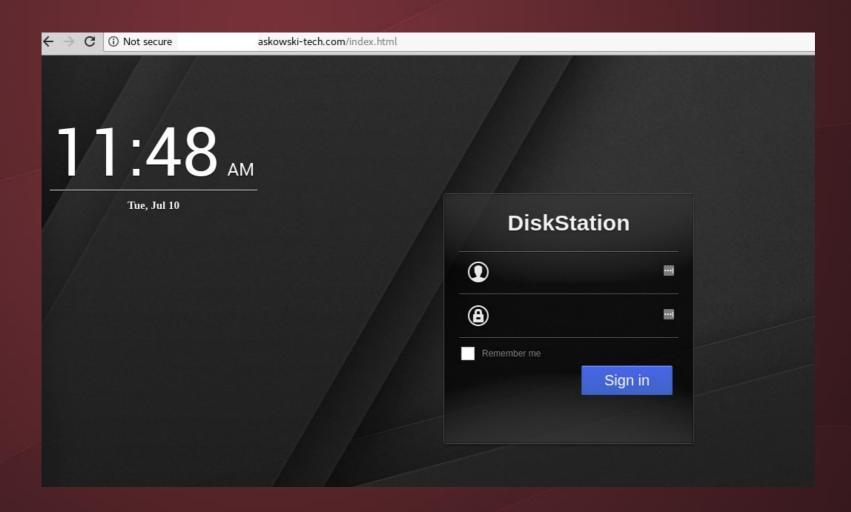
Services

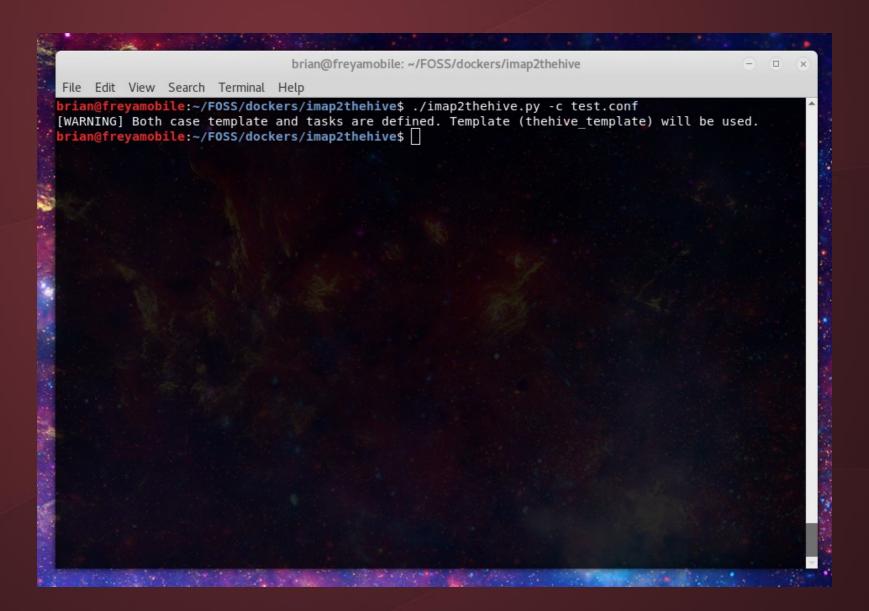
```
https://www.reverse.it/
https://virustotal.com
https://www.phishtank.com/
https://urlscan.io/
https://www.openphish.com/
https://otx.alienvault.com
https://cymon.io/
https://threatconnect.com/
https://www.talosintelligence.com/
https://community.riskiq.com/
```

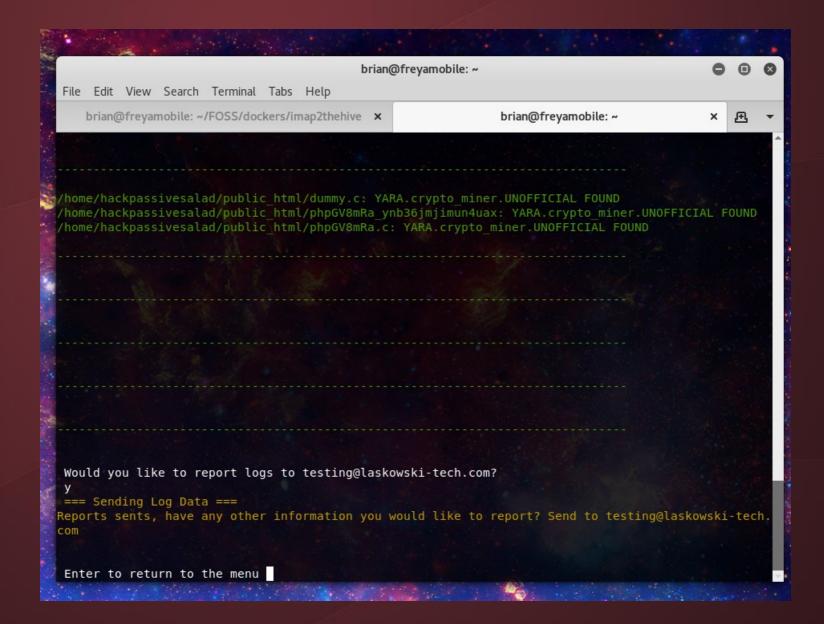
https://urlscan.io/result/91610b1f-4548-4 66e-b058-ac9290ab83fc/

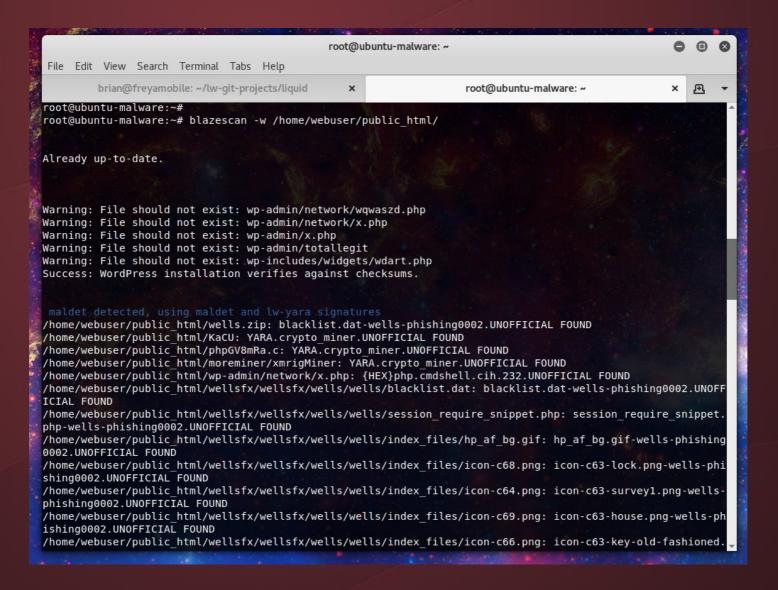


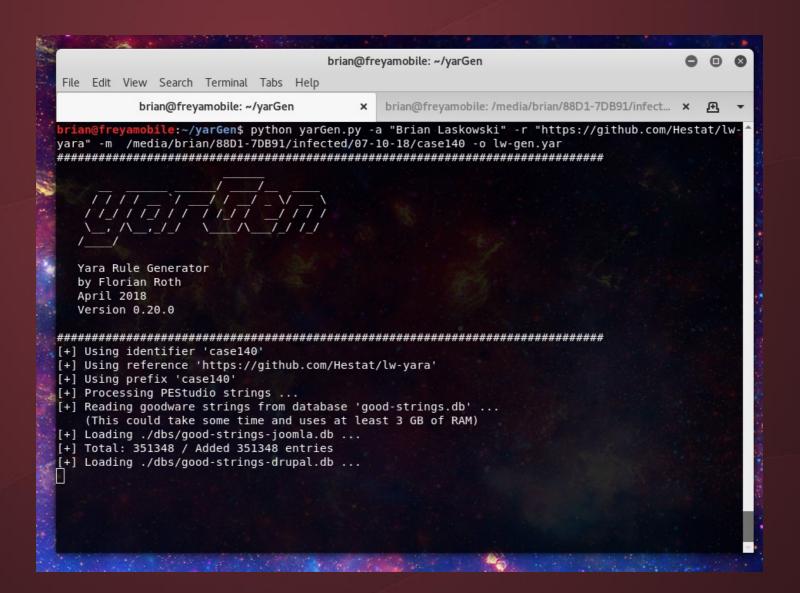


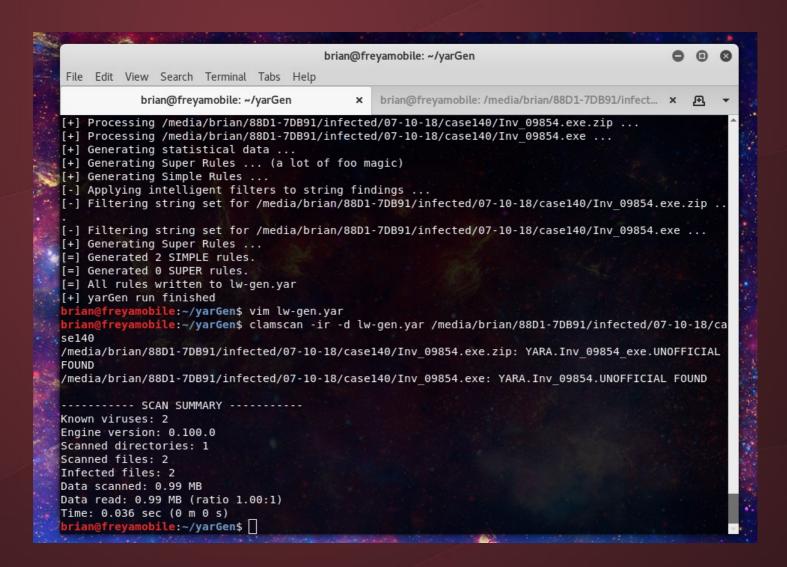


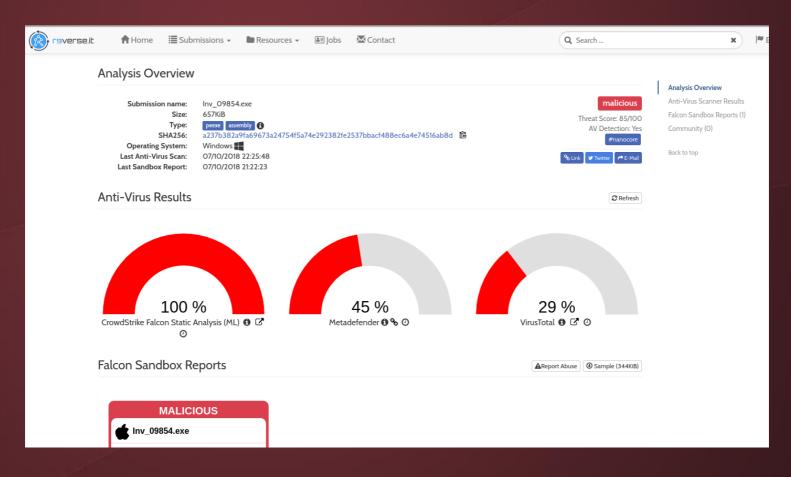












https://www.reverse.it/sample/a237b382a9fa69673a24754f5a74e292382fe2537bbacf488ec6a4e74516ab8d/5b45163a7ca3e15fbc444f34

