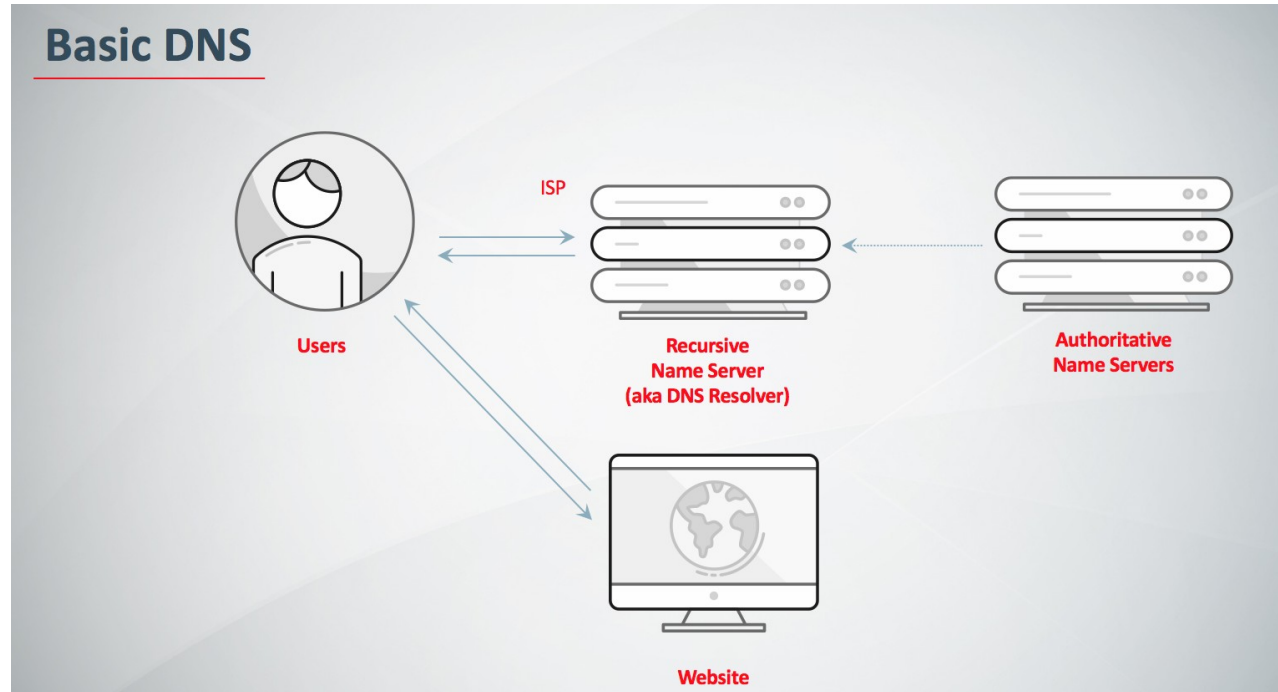


DNS
FTW!

P A R E N T A L
ADVISORY
EXPLICIT CONTENT

DNS basics



Where do I get the data?

- Client
- Server
- On the wire

DNS-over-HTTPS = Game Over?



Block it!



Enrichment ideas

- Lookup types
- GeolP the responses
- Split up the queries into TLD, domain and so on
- Count, count, count

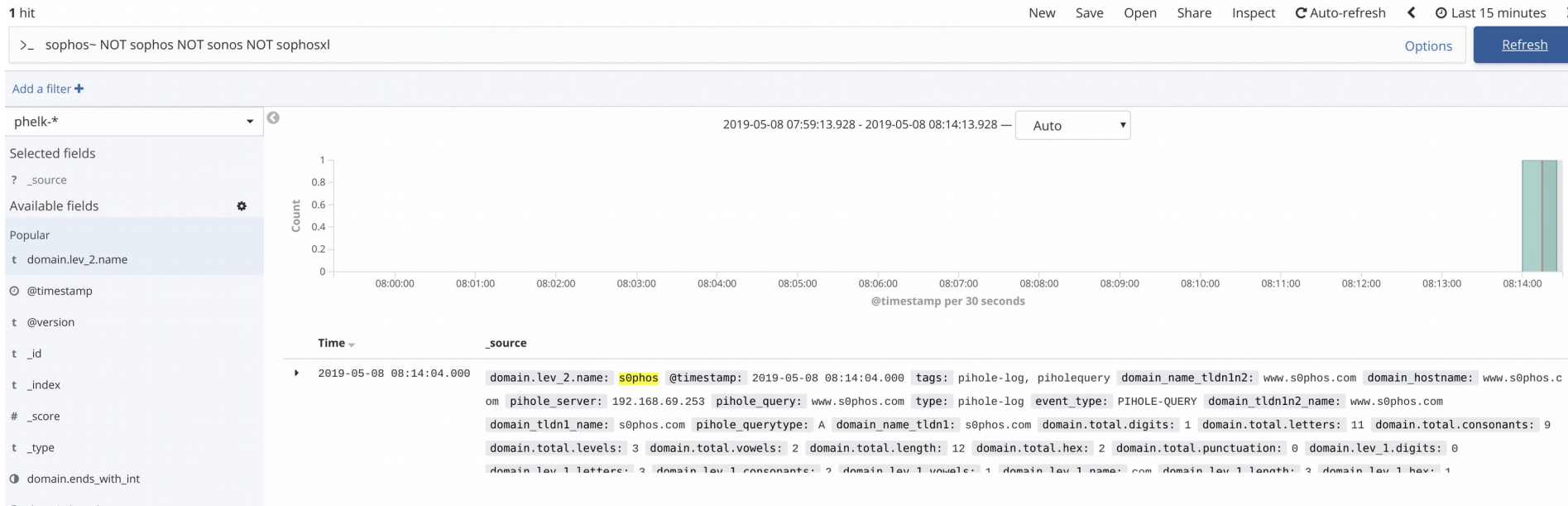
What can I use my enriched DNS data for?

- DNS exfiltration detection (also C2)
- Typo squatting / Phishing detection
- IDN / Homograph attack detection
- Incident Response
- Passive DNS

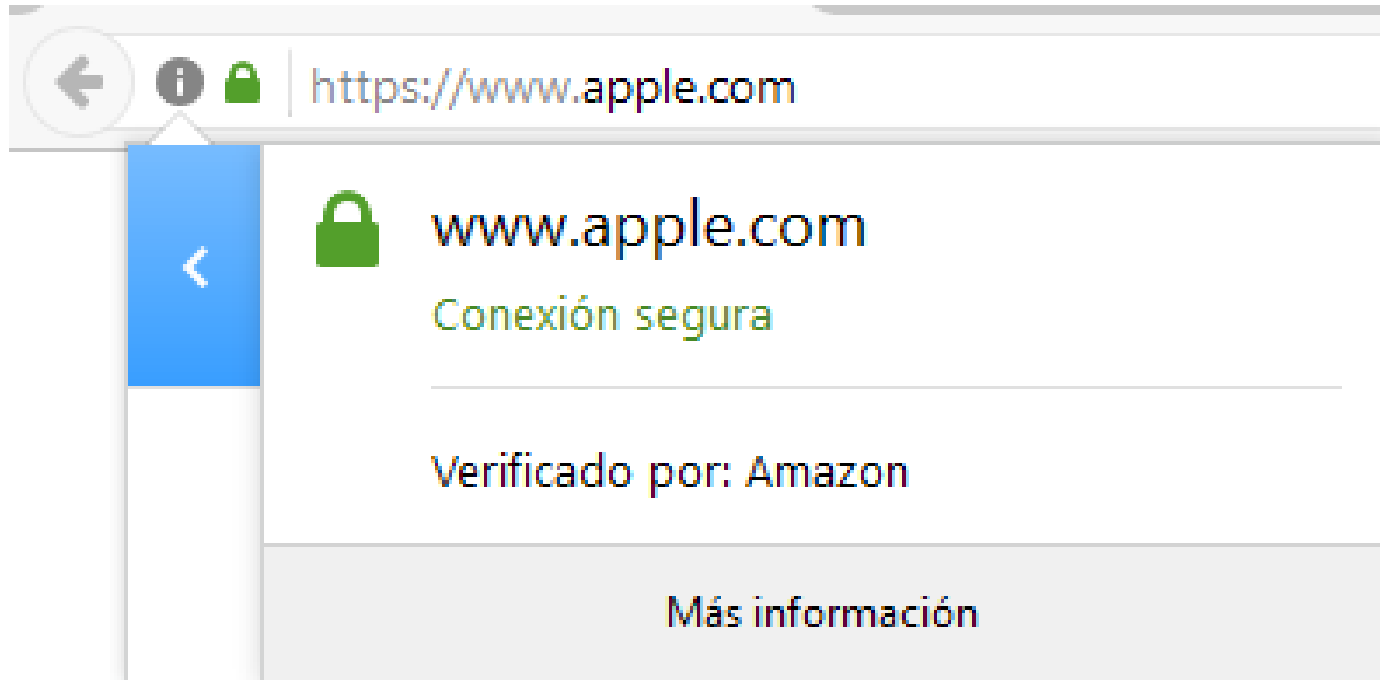
DNS exfiltration

- Many and shorter
- Fewer and longer

Typo squatting / phishing



IDN / Homograph



<https://www.xn--80ak6aa92e.com/>

Failures can be your friend!*



* Not this particular failure though

Your DNS log data needs TLC

- Log
- Enrich
- Search / Alert
- Investigate
- Refine
- Repeat

Quick demo of some data



Pi-hole - Phelk



Contact and links

twitter.com/swedishmike

github.com/swedishmike/DNS-data-presentation

github.com/swedishmike/phelk

Sophos needs some good people

sophos.com/careers

So do we...

[mwrinfosecurity.com/careers](https://www.mwrinfosecurity.com/careers)

Questions?

