



September, 2018

TLDCON

Secure Domain Foundation

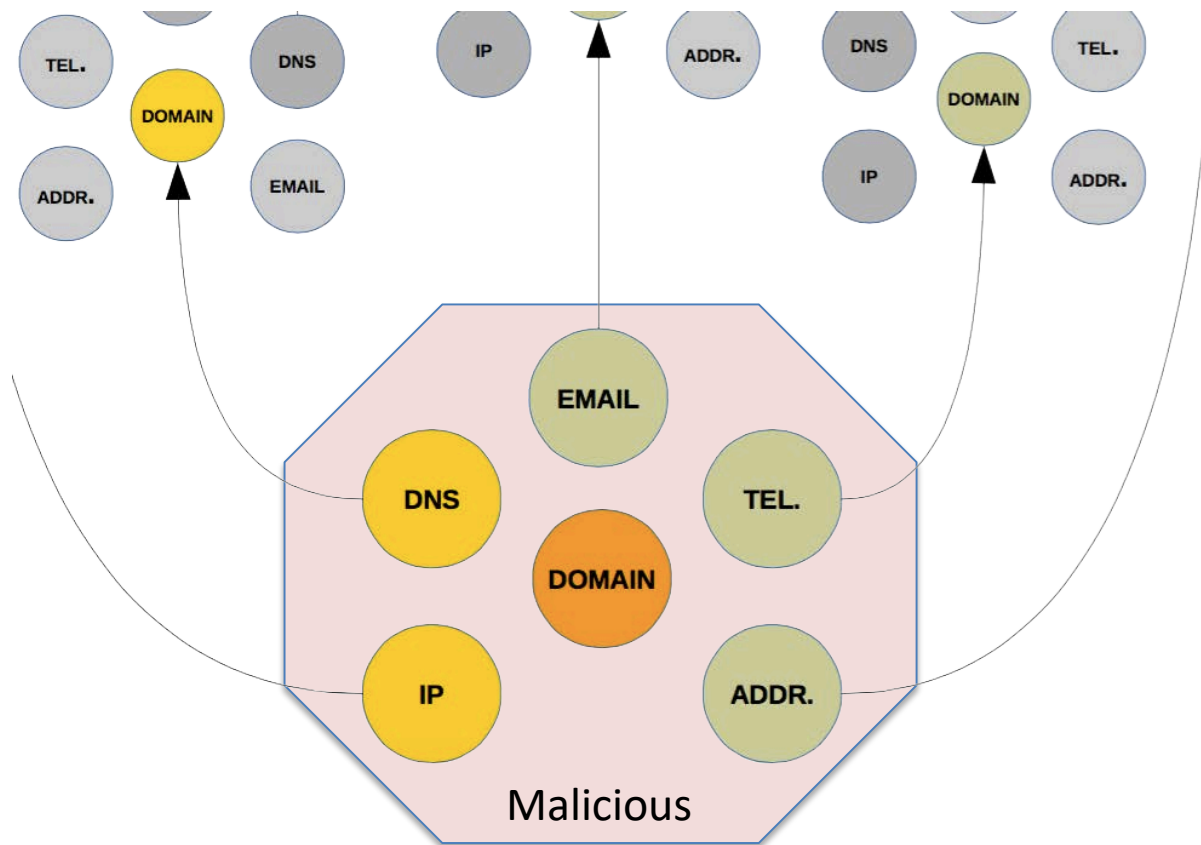
- Proactive mitigation of malicious domains used for cybercrime
 - A clearinghouse for intel on malicious domains
 - Malicious domains and numbers
 - Bad Actor indicators (email, IP, name servers, addresses)
 - A forum for research and sharing data, intel and knowledge
 - Trust group
 - Data, Research, Analysis, Discussion
- Non-profit
 - Founded in 2014 as a Canadian non-profit corporation

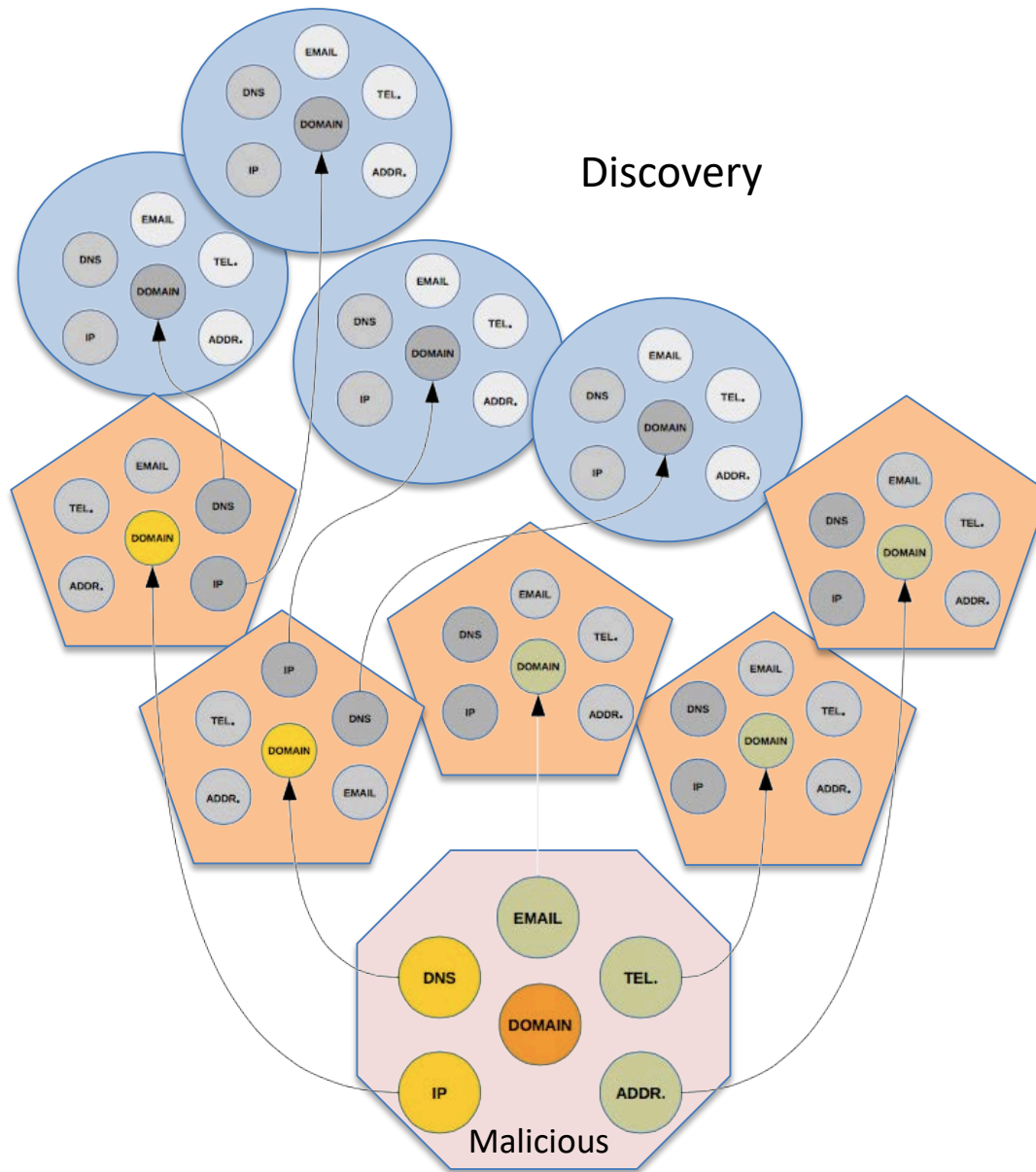
DNS abuse mitigation

- Reactive
 - (Quickly) suspend domain names upon proof of maliciousness
- Proactive
 - Stop the bad guys from scaling their infrastructure
 - Common fake WHOIS data is still common data
 - Proactive abuse mitigation by registries and registrars is good for business
 - Share data through trusted third parties

What can we infer from a malicious indicator?

- Given a:
 - Domain name
 - IP address
 - Email address





Some Use Cases

- Registrars and Hosts
 - Does this account owner have a reputation for malicious activity?
- Registries
 - What domains in my TLD were reported as malicious today?
- Security Analysts
 - What other domains are associated with this {domain, email, IP, NS, phone}
- Researchers
 - Statistics for policy decisions (empirical data)

Luminous

- A large, searchable repository of parsed whois data and malicious indicators
- Designed for
 - High Performance and Reliability
 - Scalability
 - Low operational needs
 - Very Flexible
- Query: CLI, API, Web interfaces
- Output: XML, JSON, Text

Luminous Data

- Whois since July 2013
 - 250M+ gTLD records
 - 120K-150K new registrations per day
- Historical Whois
 - 170M gTLD records
- Indicators of malicious activity
 - 80M unique indicators
 - 10K-100K being added per day

Indicator Classification

- ADWARE Resource is known for Adware Activity
- ANTIVIRUS Resource is known to spread fake anti-virus software.
- SUSPICIOUS Resource is known for general suspicious activity.
- BOTNET Resource is a known host for a bot-net frame-work.
- COMPROMISED Resource has been compromised previously.
- FRAUD Resource is known for financial fraud activity.
- MALICIOUS Malicious activity / Bullet proof hosting
- MALWARE Resource is known for spreading malware
- PHISHING Resource is known for phishing activity.
- SPAM Resource is known for spam activity.
- RISKWARE Resource is known for spreading risky ware and hacking tools.
- PHARMACY Resource is a online pharmacy
- WHITELIST Resource is white-listed.
- SUSPENDED Resource has been suspended by a registrar previously.

What can you do?

- Share suspended domain name data
 - Domain names
 - Email addresses
 - IP addresses
- Use abuse desk orchestration
 - 10x productivity gain
- Expand Netoscope or SDF analysis across registries and registrars

Work together and automate

Interested in the SDF

- Sign up process?
 - Email us at register@securedomain.org
 - Agree to the SDF Data Sharing Agreement
 - Receive API key and portal login
 - Share Data!

Thank you

Norm Ritchie

norm@thesesecuredomain.org