Intsights

DETECT . ANALYZE . REMEDIATE

OSINT: The Secret Weapon in Hunting Nation-State Campaigns



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1

What People Think...



True or False?

Threat intelligence is focused on the "reconnaissance" phase



Nation-state actors just sit in a secured place collaborating over internal networks



Commercial threat intelligence won't help me against nation-state attacks

2

Using OSINT to Detect Attacks



How Nation-state Cyber Attacks Unfold?

The Attack Supply Chain

Motive	Targeting	Development	Infrastructure	Recon	Attack
	SOCIAL	10001 1001	907		DDoS
H K 2 N M C		net com		SOCIAL	Malware
		WELCOME TO DARKODE The last mission makes makes or in a set The last mission makes makes or in a set The last mission makes makes or in a set The last mission makes makes or in a set of the last mission makes or in a s			SOL



What Does This Mean For You



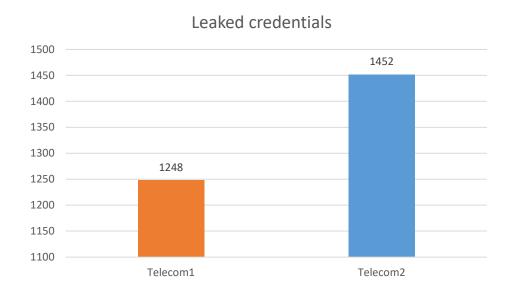


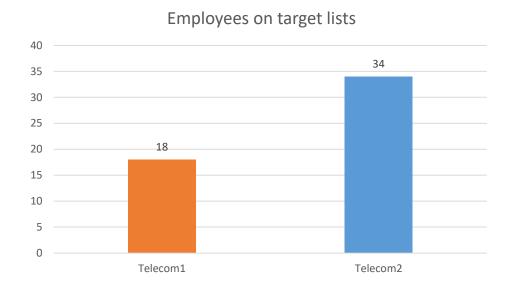
Step 1: Outrun Your Competitor

- Don't outrun the bear, outrun your competitor.
- Benchmark your digital footprint.
- Benchmark is a crucial security need!



Benchmark in the telecom industry







Nation-State Attacks Motivations







Step 2: Get Into The Attacker's Shoes

- How does your attacker see you?
- What is your digital footprint?
- 2 steps:
 - Monitor your digital foot print.
 - Clean your digital footprint.

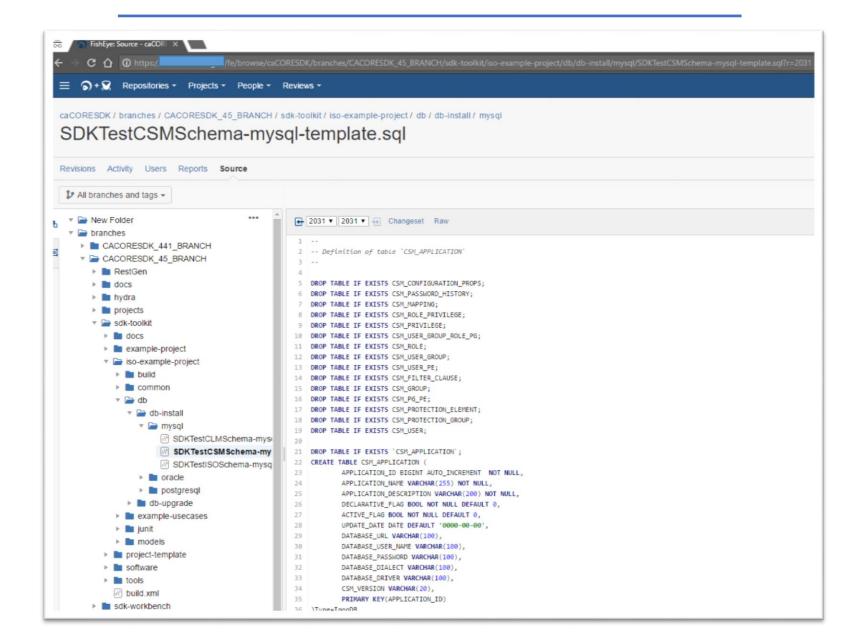


Exploitable Data

→ C ↑ Secure https://www.jadds/dataserver1_3/current/					
irectory Listing For /current/ - Up To /					
ilename	Size				
aircraftreports.cache.csv	177.8 kb				
aircraftreports.cache.csv.gz	40.1 kb				
aircraftreports.cache.xml	496.4 kb				
aircraftreports.cache.xml.gz	52.2 kb				
airsigmets.cache.csv	19.7 kb				
airsigmets.cache.csv.gz	5.2 kb				
<u>airsigmets.cache.xml</u>	64.4 kb				
airsigmets.cache.xml.gz	6.7 kb				
metars.cache.csv	916.2 kb				
metars.cache.csv.gz	220.6 kb				
metars.cache.xml	4109.5 kb				
metars.cache.xml.gz	304.9 kb				
<u>tafs.cache.csv</u>	6198.0 kb				
tafs.cache.csv.gz	287.0 kb				
tafs.cache.xml	5422.5 kb				
tafs.cache.xml.gz	311.0 kb				

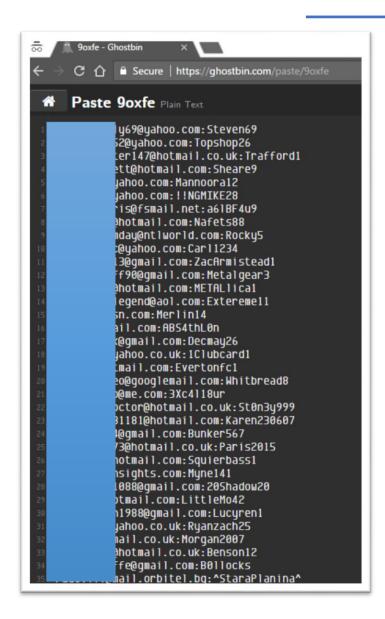


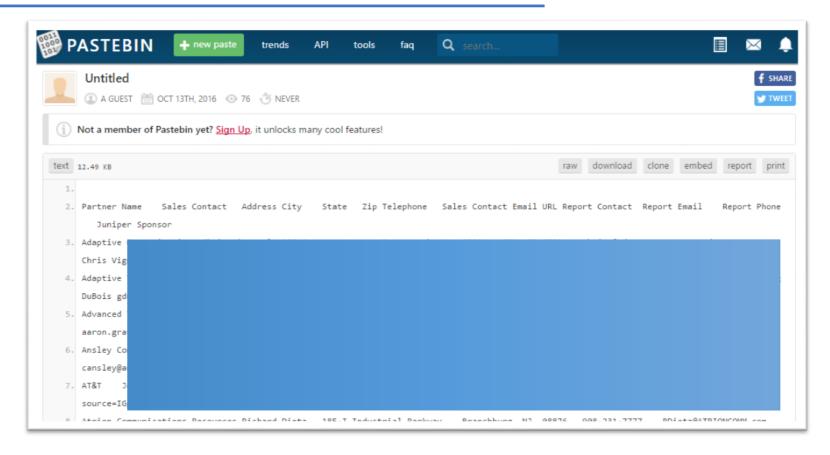
Exploitable Data





Clean Your Digital Footprint

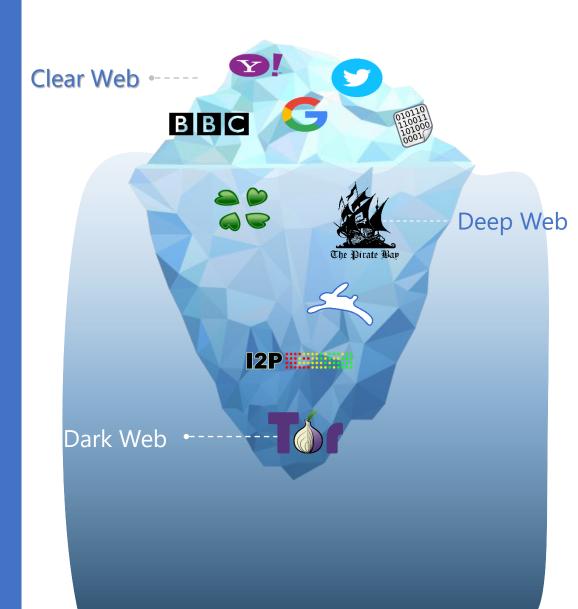






Step 3: Monitor The Dark Web

- What is the Dark Web?
- Hackers #1 interest Anonymity.



They Are On The Dark Web!



What are they doing on the Dark Web?

- Recruiting/Hiring.
- Odays.
- Staying up-to-date.



^{*}OpCleaver, Cylance

Recruiting

联系方式 - 简历详细信息

www.job51.com/person/.../Resume_1.asp?... - China - Translate this page 1999.12至2004.12 总参三部二局(61398部队) 驾驶员2005。3至2006.3 深圳国叶世成科技有限公司驾驶员2006.5至2008.5 上海市星晔进出口有限公司驾驶 ...

592招聘-连云港司机求职找工作-招聘首选592招聘网

www.job592.com/cv/120209/person1266063.html - Translate this page 1999.12 至2004.12 总参三部二局 (61398 部队) 驾驶员 2005. 3 至2006.3 深圳国叶世成科技有限公司驾驶员 2006.5 至2008.5 上海市星晔进出口有限公司驾驶员 ...

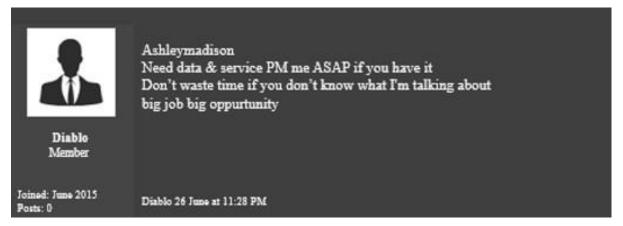




^{*}APT1, Exposing one of China's Cyber Espionage Units, Mandiant

Outsourcing

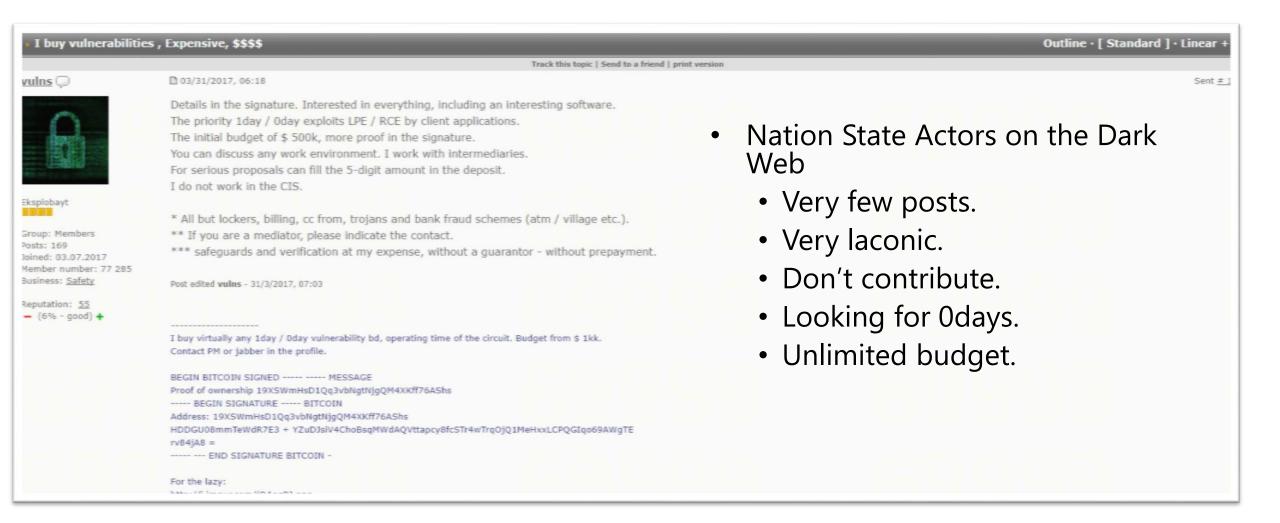




^{*}Exposed by Noam Jolles, Diskin Advanced Technologies

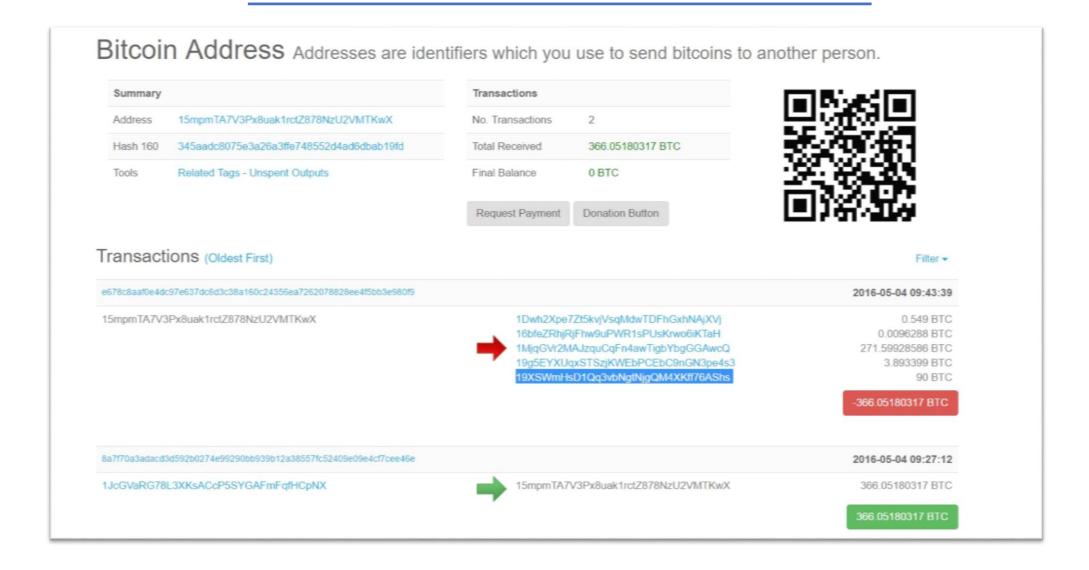


How Can They Be Detected?





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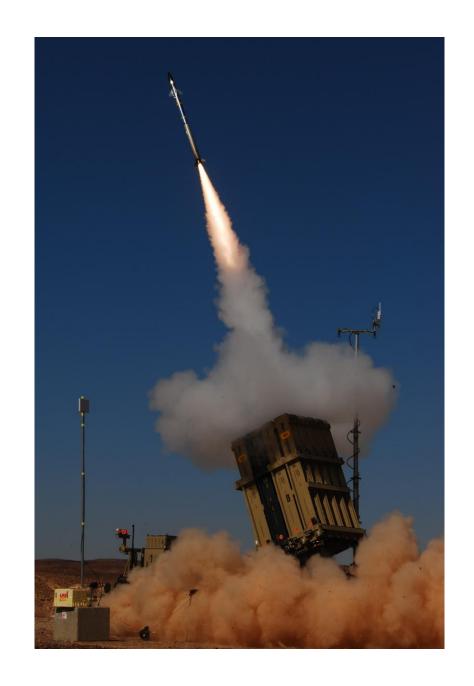


Step 4: Weapon Deployment

- States collaborate on closed networks but organizations are on the surface.
- In order to attack, states have to reach the surface, and that leaves them exposed.

TI can help detect:

- **Phishing attacks** fake domain registration.
- Malicious mobile applications
- Fake social media profiles



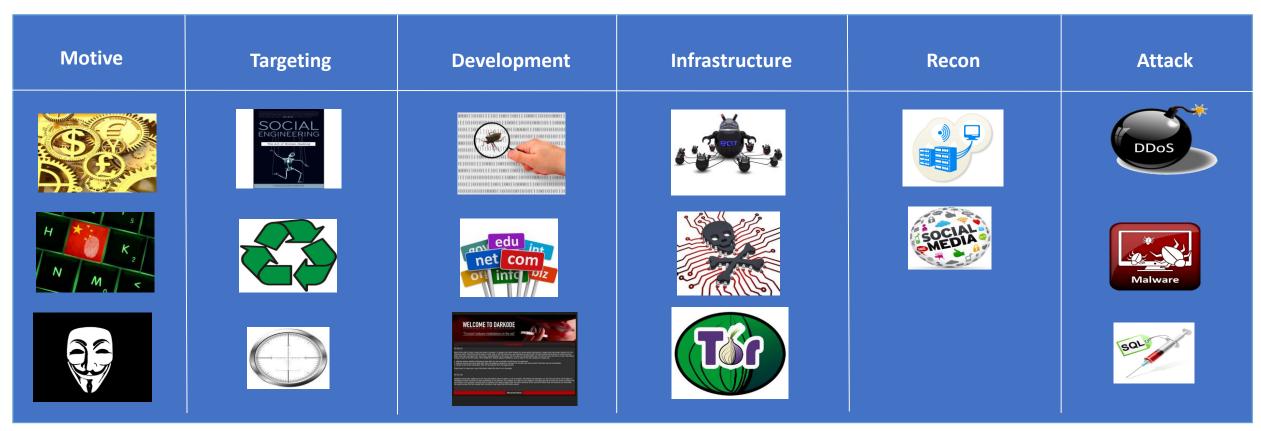
Fake Social Media Profiles





How Nation-state Cyber Attacks Unfold?

The Attack Supply Chain



Benchmark Exploitable Data Data Leakage

Dark Web monitoring

Phishing domains
Malicious mobile apps
Fake social media profiles

Exploitable Data Data Leakage



Conclusion: OSINT Is Critical

Eliminates Blind Spots



- 1. Optimized risk picture with an aggregated and coordinated view across internal and external threats.
- 2. Context to effectively scope alerts or gauge the severity of a threat.

Enable Proactive Security



- 1. Connect external threats with your enterprise before they attack.
- 2. Capture early warning signals.

Operational Efficiency



- 1. Actionable visibility
- 2. Automate remediation for internal and external systems
- 3. Metrics and visibility showcasing security's impact.



