Leveraging VIPs' Attack Surface Through OSINT

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Before we start...







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(3) 28 December 2017

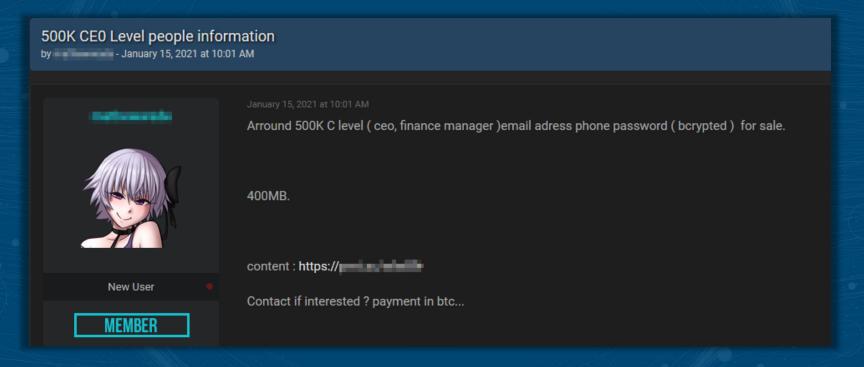
Before we start...



Exposed/Leaked
Personal
Identifiable
Information



Example from Dark Web forum



About me



Ygor Maximo (@mxm0z)

Threat & Dark Web Intelligence at iSecurity Inc.

OSINT Investigator

Certified Threat Intelligence Analyst (EC-Council)



Agenda

- 1. Introduction
- 2. Methodology of Collection and Analysis
- 3. Collecting VIPs data through OSINT
- 4. Tools and Techniques
- 5. Conclusion





VIPs: Who Are They? What They Do? How They Live? What

They Eat?



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They Eat?



C-Level, Partners, Managers



VIPs: Who Are They? What They Do? How They Live? What

They Eat?



C-Level, Partners, Managers



Board of Directors



VIPs: Who Are They? What They Do? How They Live? What

They Eat?



C-Level, Partners, Managers



Board of Directors

Basically the decision making people..



VIPs: Who Are They? What They Do? How They Live? What Do They Eat?



C-Level, Partners, Managers



Board of Directors

Aren't we

forgetting

someone?



VIPs: Who Are They? What They Do? How They Live? What

They Eat?



C-Level, Partners,

Managers



Board of Directors





Methodology of Collection and Analysis

Some key questions

- What is the purpose of your investigation?
- What are you trying to accomplish?
- What questions do you/your customer want answered?







Methodology of Collection and Analysis

What data can be collected?

- Name
- Picture
- Description
- Email Address
- Telephone Number
- VIP Assistant ContactDetails

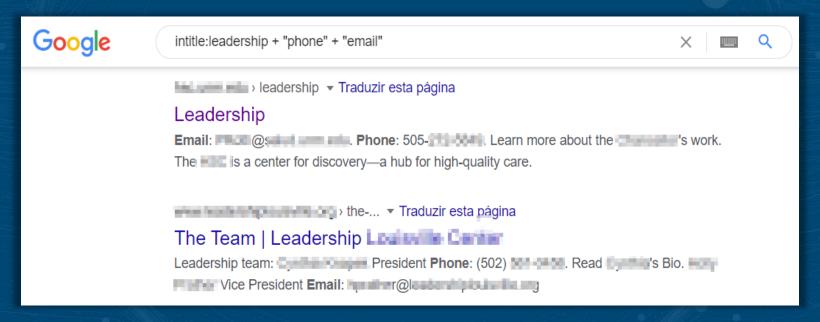
Tips for efficient data collection phase

- Answer key questions (requirements)
- Follow a well-defined process/framework
- MindMaps (i.e. XMind.net)

The amount of data is directly proportional to the chance of you getting lost if you decide to not follow a process



Common Web Pages Displaying Contact Details of VIPs









Final B. Both, MD, MS

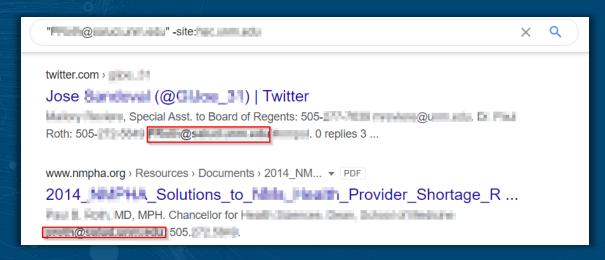
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Finding Personal Social Media of VIPs

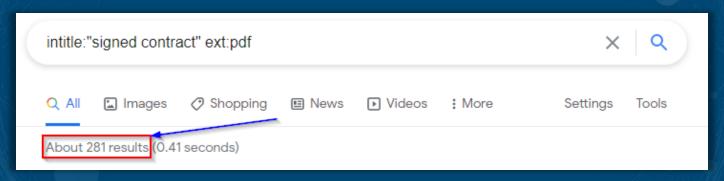


VIPs social media can be used on:

- Social Engineering
- Collect Unintentionally Published
 Personal Information
- Any Additional and Useful Info



Signed Contracts Indexed on Google Exposing VIPs Signatures



VIPs contract signatures can be used

to:

- Increase level of legitimicy of phishing emails
- Documeny forgery for Cyber Attacks
- Executive Impersonation



How To Leverage The Collected Data

- Name
- Picture
- Description
- Email Address
- Telephone Number
- VIP Assistant Contact Details

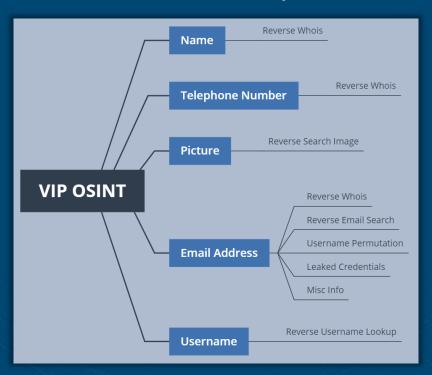




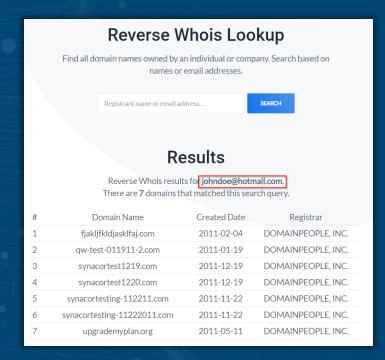
Let's Reverse Things... OSINT Style

- Reverse Whois Search
- Reverse Image Search
- Reverse Username Lookup
- Reverse Email Search
- Username Permutation









ReverseWhois.io – Reverse Whois Lookup

- Find domain names tied to the targetedVIP
- Potentially new email adresses
- New vulnerable web application
- Personal blogs revealing useful info

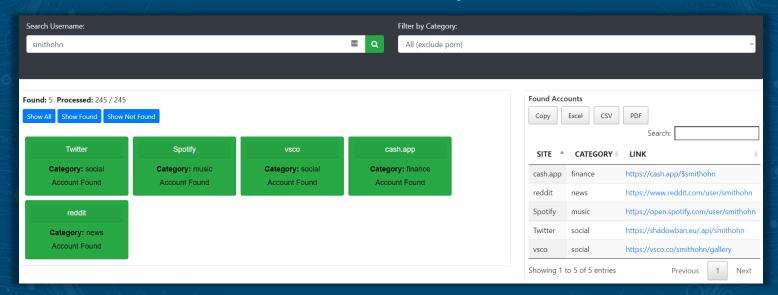




TinEye - Reverse Image Search

- Find third-party sources where the same picture is hosted
- Find Picture being published by someone close to the target





WhatsMyName.app

Username as the searched item





NameCombiner.com – Username Permutation

- Generate usernames based on VIPs name
- Several email addresses combinations

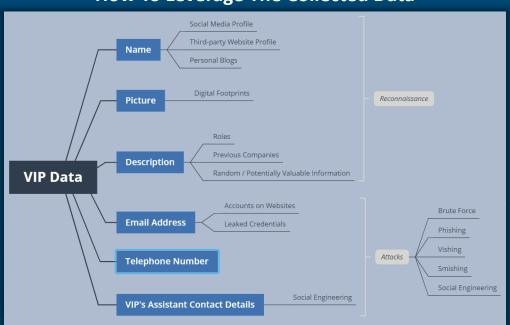


```
k:~# buster -e j********4@y****.com -f john -l wyhko -b ****1974
[=]Validating 52 possible emails
[+]johnwyh1974@yahoo.com
       [-]Profiles:
                twitter
               facebook
        [-]Google Search:
               https://www.miribiz.com/directory/timber industries
               http://miribiz33.rssing.com/chan-28092723/latest.php
               https://pastebin.com/dcipzPKz
               https://pastebin.com/6n8GF9N7
       [-]Breaches:
               Exactis
               LinkedIn
               OnlinerSpambot
        [-]Pastes:
               https://pastebin.com/GSYrPC35
               https://pastebin.com/pHZNPYK9
               https://pastebin.com/wz4JN5WK
               https://pastebin.com/sGRjX9Sc
               https://pastebin.com/zvfr4j0i
               https://pastebin.com/6n8GF9N7
```

Buster (GitHub)

- Perform Google searches
- Breached databases
- Pastes on Pastebin
- Email address as the search

How To Leverage The Collected Data





Conclusion

What we have covered and learned in this talk:

- Executive digital exposure could lead to physical risks
- VIPs are not just C-Level / Executives / Directors
- Tools and Techniques to leverage VIP data through offensive
 OSINT

Non-technical flaws can also lead to a company breach



Links and References

- https://www.bbc.com/news/business-42505261
- https://www.bbc.com/news/technology-49532244
- https://xmind.net
- https://pastebeen.com
- https://namecombiner.com
- https://reversewhois.io
- https://whatsmyname.app
- https://tineye.com
- https://osintframework.com
- https://github.com/harleo/knockknock

Thanks! Questions?

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