

### **MHOAMIS**

• Background in Desktop Support, SOC/IR and lover of all things OSINT. Currently employed as a lead intelligence analyst with threat intelligence firm DarkTower.

• 2<sup>nd</sup> place finish with team Dwayne "the sock" Johnson in Tracelabs Global Search Party.

Case Tracking & Statistics Lead with NCPTF.

## **DISCLAIMER:**

• Nothing in this presentation represents the views of my employers or organizations I am associated with past, present or future.

• DO NOT DO CRIMES. Do OSINT for good.



## CREDIT WHERE ITS DUE

 GOOGLE Hacking by Johnny Long has be a huge inspiration to me.

• OSINTDOJO.COM has provided a path for OSINT learning. @sinwindie is one of the best OSINTers out there in my opinion.

#### From Facebook to LinkedIn, datascraping leaks proliferate

The incentives and opportunities for harvesting valuable personal information have multiplied

Clubhouse Joins Facebook and LinkedIn as Target of Data Scraping; Cumulative One Billion User Profiles Have Been Leaked

Facebook Responds To Data Leak – Says, 'Data Not Hacked, But Scraped'

## A COUPLE QUESTIONS FOR YOU.

- How much damage could someone do to an organization using only a Google search?
- What do Facebook, Linkedin, and Clubhouse have in common?

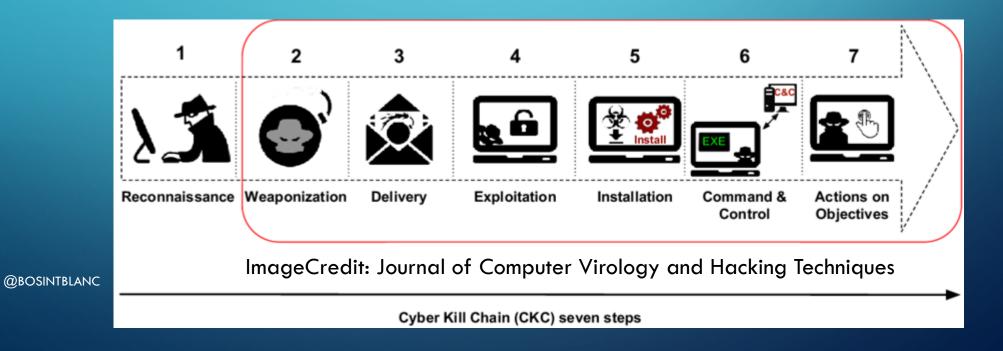
## THE STAGES OF FINDING LOW HANGING FRUIT

- Stage 1: Rationale and Methodology.
- Stage 2: Conduct the investigation
- Stage 3: Lessons learned and closing thoughts.

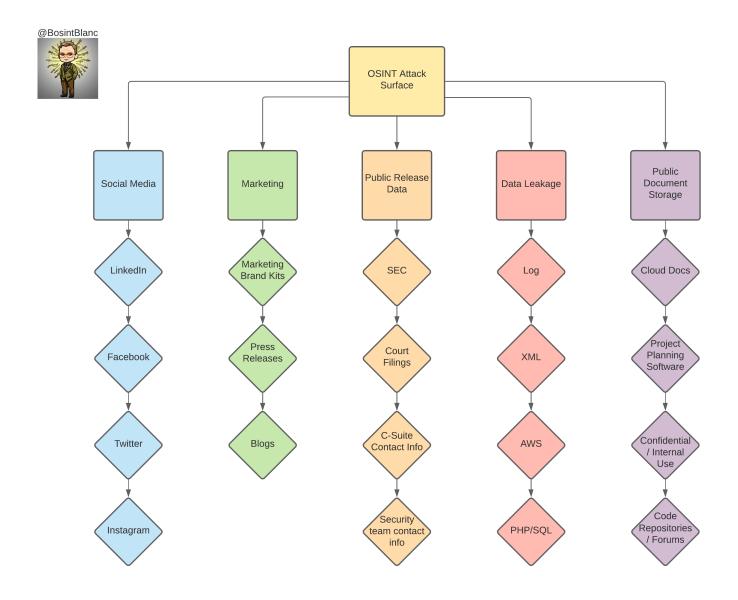


## STAGE 1: WHY MAP AN OSINT ATTACK SURFACE?

- Blue teams spend almost 100 % of their time in sections 2-7 of the kill chain.
- Red teams may gain additional insight in tech stack, organizational structure and culture and additional avenues of exploitation.



## STAGE 1: TAKE AIM.



### STAGE 1: WOULD YOU LIKE TO PLAY A GAME?

- I chose a company off the Fortune 500 list at random. For the purposes of this presentation I am calling them Big Financial Company or BFC.
- I performed passive intelligence gathering on their OSINT attack surface.
- For the entire enterprise I will only use Google. No tools and no active methods. Since this company has not granted me permission I only click things which are distinctly public domain.

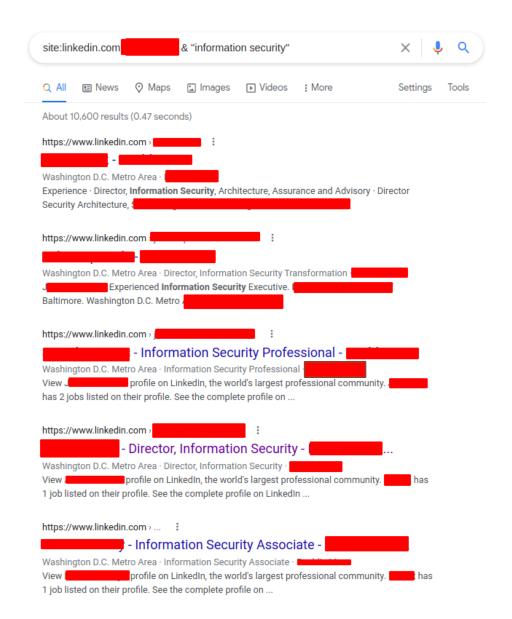
## STAGE 2: LET THE HUNT BEGIN!

- Social Media
  - Often great to start with:
    - Development Team
    - IT Security Team
    - IT Leadership
    - Executives



## STAGE 2: CASH ME OUTSIDE

Searching site:linkedin.c om "BFC" & "information security" gets us a list of BFC's security staff.



## STAGE 2: CASH ME OUTSIDE

• The first three security people's profiles give me no valuable information. The 4<sup>th</sup> we hit something interesting.



Information Security, Senior Technical Lead at

#### Information Security Manager Full-time

- Management of all day-to-day team operations pertaining to Access Certification, responsible for execution of corporate-wide periodic access reviews for Privileged infrastructure access as well high-risk applications using SailPoint IdentityIQ.
- Management of all day-to-day team operations pertaining to Access Management, responsible for the operational support and user access provisioning of approximately 150+ high-risk business applications and 12 core infrastructure platforms.
- Managed all daily operations and access governance activities for identities and accounts, privileged account access, and role and entitlement management.
- Partner with IT Risk Management team and liaise with 2nd/3rd LOD, maintaining relationships and providing visibility of program.
- Work with our risk partners to support issue management using risk assessments to resolve severity of issues, partnering with process owners for the timely development and execution of remediation action plans.
- Review, assessment, benchmark and development of issue remediation action plans for IT programs and technologies within IAM.
- Implement policies, standards, and processes for IAM in support of alignment with overall Enterprise strategy and compliance.
- Provided advisory services to business and technology teams concerning IAM security controls and responded to internal, external and SOX audits and regulator requests.
- Identified gaps/risks in user Joiner-Mover-Leaver processes and created and enhanced IAM processes, automating them where possible to remove manual work that lead to errors of omission and commission.
- Major stakeholder and active participation with IAM Solutioning for successful implementation of newly deployed SailPoint IIQ.
- Strategic management planning for future state Project Releases in support of capability deployments for IAM Transformation.
- Development, communication and execution of new Enterprise-wide strategy for Privileged Access Management (PAM).

see less

## STAGE 2: NOW THAT'S PIVOTING

 Unfamiliar with Sailpoint I search information on it. Turns out to be an IAM software.

@BOSINTBLANC

## SailPoint IdentityIQ®

#### Find your hidden security risks.

If you don't know who has access to your applications and data, you probably have security and compliance gaps you haven't even thought about.

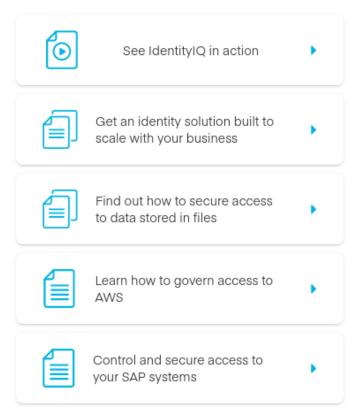
With IdentityIQ at the center of your enterprise, you can <u>control access</u>

to every file and application across your hybrid IT environment by employees, partners, contractors — even bots.

## Keep up with the complexity and speed of business.

Combine SailPoint <u>Predictive Identity</u>™ with IdentityIQ to unleash Aldriven capabilities that help you see and do more. Our <u>Access</u> <u>Modeling</u>, <u>Access Insights</u> and <u>Recommendations</u> provide greater intelligence and efficiency by keeping access policies up-to-date, and let you know if access is safe or risky.

#### Learn more



## STAGE 2: NOW THAT'S PIVOTING 2

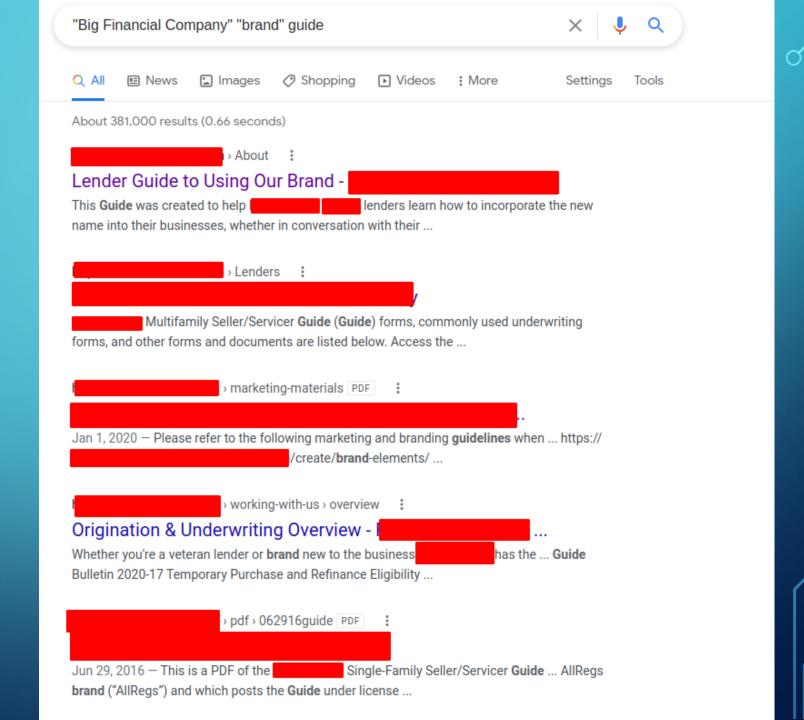
- I search site:bfc.com inurl:identityiq
- This returns the subdomain of their IAM portal.
- One of the most interesting hits is the success page of the password reset.



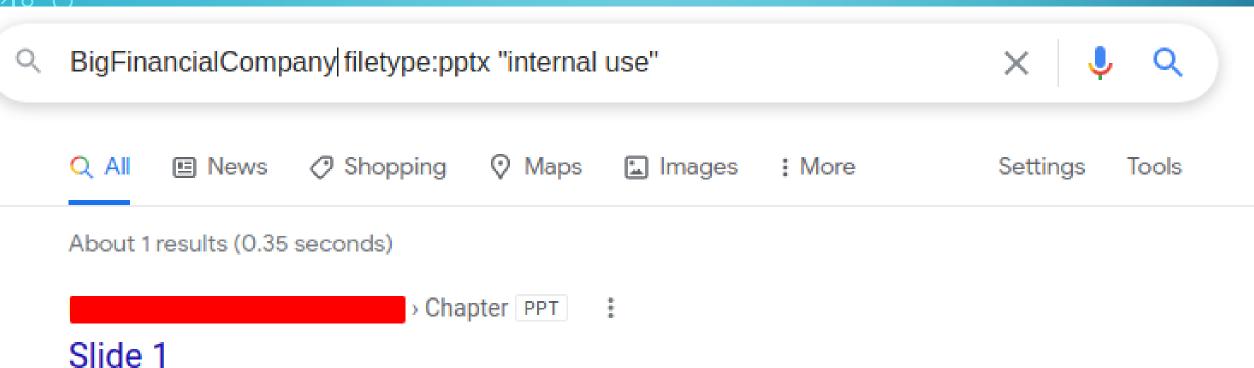
## STAGE 2: WHOOPSY

- Brand guides should be behind a login. (opinion don't @ me)
- Yes threat

   actors can get
   this other
   ways but why
   make it easy?



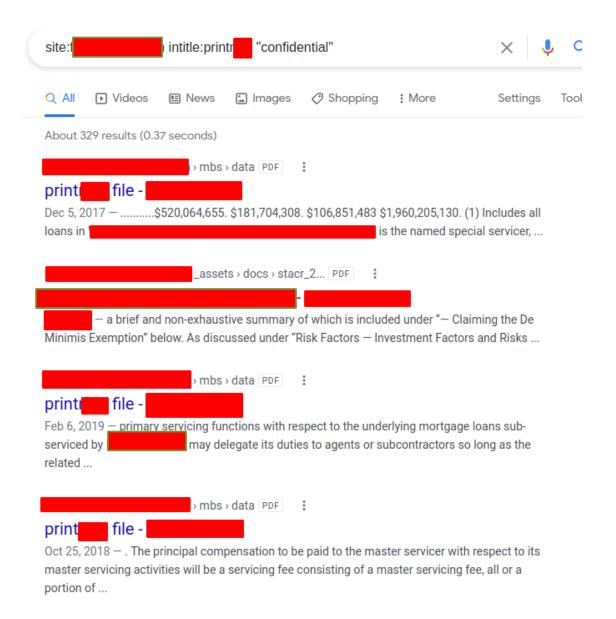
#### STAGE 2: IS PUBLIC "CONFIDENTIAL"?



Property/Casualty. State Page – Exhibit of Premiums & Losses. New Line 29 for reporting of International business. Previously treated as a write-in. Created crosscheck problems.

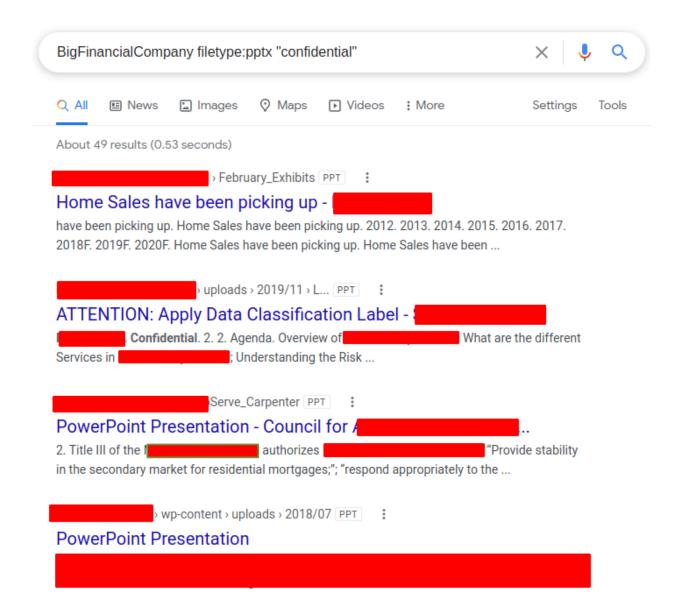
# STAGE 2: IS PUBLIC "CONFIDENTIAL"?

• Looking for filetype:pdf I noticed a number of things hosted with a title that led me to believe BFC's doc service is leaking somewhere.



# STAGE 2: IS PUBLIC "CONFIDENTIAL"?

Searching
 various
 presentation
 formats almost
 always proves
 valuable.



## STAGE 3: LESSONS LEARNED

- Misconfigurations cause undesired information to be shared.
- Knowing your OSINT attack surface allows you to structure your defense and understand where your low hanging fruit lies and thus better structure your defense to compensate.
- Worst case you find nothing / best case your team are heroes.



## STAGE 3: ONE LAST BOW

- Google alerts provide a easy and FREE monitoring for data leakage.
- This is not a vendor talk so I want recommend anyone specific but will say know when you need help.
- OSINT Attack Surface mapping looks differently at different security maturity levels.



### THANK YOU

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