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Day 1 Foundations of OSINT

4. Determining Your Threat Profile

- Three main words to describe OSINT Process**
 - Overt** — Public, non-anonymous
 - Covert** — Low attribution, deniable, secretive
 - Clandestine** — An operation sponsored or conducted by governmental
- Check Browser Security**
 - eff.org
 - browserleaks.com
 - whoer.net
 - deviceinfo.me

Common Information Disclosure Issues Layers

- Application Layer**
 - Being logged into a web site, service, or device with a personal or private account instead of an OSINT one.
 - Cookies, web bugs, and tracking content.
 - Spurious traffic from browser plug-ins/add-ons.
 - User agents from browsers and tools.
 - Check browser Security mention tools.
- Network Layer**
 - IPs: geographic location, network providers.
 - Using Tor: nodes are run by criminals and others by intelligence agencies.
- Google Tracking Searches**
 - How to use Google without being tracked
 - How Much Does Google Really Know About You?
 - Removing Your Dat by ["Opt Out Doe"] project
- What Can We Do?/ How to secure your self?**
 - Understand our system and application network traffic.
 - Use proxies and Tor wisely.
 - Use appropriate search engines and web sites.
 - Clear cache, cookies, and history on our browsers.
 - Understand where our applications communicate and what they send.
 - Use appropriate OSINT user accounts for work requiring accessing authenticated resources.
 - Alter our applications so they provide inaccurate data to sites and network devices.
 - Create solid processes and follow them
- Hiding from the Internet: Michael Bazzell wrote a couple book**
 - Hiding From The Internet
 - Extreme Privacy

add in considerations when build OSINT

- Affordable: Cost
- Trustworthy: uncompromising
- Clean-able
- Availability
- Multi-User
- Accessing
- Graphical
- Ease of update

5. Setting Up an OSINT Platform

- Browser Extension**
 - Buscador — VM
 - uBlock Origin
 - Firefox Multi-Account Containers
 - Location Guard
 - Hunchly Recording activity
 - Instant Data Scraper
 - User Agent Switcher
 - Download Everything
 - Search By Image
- Recommendation**
 - Virtual Desktop Interfaces (VDIs)
 - Networking and Virtual Private Networks (VPNs)
 - Use Proxy
 - SmartPhone, use NOX
- Data Storage**
 - Store notes, results, images, and other artifacts
 - Use Bitlocker in windows, LUKS in Linux.
- Managing Those Passwords**
 - Local file-based software** — KeePassXC
 - Cloud-based managers** — IPassword

Pracls

- OSINTing People**
- Mapping Minds and Cases**
- Hunchly**
- Searching for IP**
 - Locate places that hold illegal files with SANS and GIAC intellectual property**
 - Steps**
 - For this lab, you can and should use multiple search engines like https://google.com, https://duckduckgo.com, https://bing.com, and https://yandex.com.
 - Non-GIAC web sites that have pages like the following may house these files:
 - Dorks: sans filetype:pdf -site:sans.org -site:sans.edu -site:giac.org sec****
- Managing Passwords - Optional**
- Slacking It - Optional**

1. Introduction

- This Course is staring point in OSINT will cover tools, techniques, process, and workflow.
- Open Source Data (OSD): Raw data
- Open Source Information (OSIF): Processed information
- Open Source Intelligence (OSINT): Analyzed intelligence
- What Is OSINT?**
 - OSINT is Open Source Intelligence, is the process of searching for, gathering, and analyzing data found from public sources
 - Data Is Just Data until Analyzed
- The OSINT Cycle**
 - Requirements gathering
 - Retrieving data
 - Analyzing information: YOGA
 - Pivoting to a new perspective or Reporting analysis
- Goals of OSINT Collection** — OSINT data enhances investigations

2. Diving into the Collecting Scenario

- Boss: We need you, OSINT man, to find the attacker that stole all our email.
- OSINT Mar's boss shows him an email from the attacker whose name appears to be "R0s3bhud."
- Extract Data related to attacker from email as: name, email and domain.
- Search by attacker name in google and check social media.
- Cyber event postmortem: this occur after attack done and attacker leaked emails.

3. Taking Excellent Notes

- Why we taking notes**
 - Document the work for the future
 - Take Notes is important because Others may be using your work as a starting point as:**
 - Incident responders
 - Malware analysts
 - Law enforcement
 - Another OSINT analyst
- Types of Documentation Tools**
 - Visualizers**
 - Maltego
 - Gephi
 - i2 notebook.
 - Note-taking Apps (manually)**
 - OneNote
 - Evernote
 - Google Keep
 - mindmap
 - Documenting Apps** — Hunchly Google Chrome Extension
 - Word Processors/Text Editor**
 - Notepad++
 - Sublime
 - vi/vim

7. Leveraging Search Engines

- Dorks: syntax for each search engine**
- robots.txt**
- DuckDuckGo.com**
 - Service 3g2up4pq6kufc4m.onion
 - Privacy-focused search engine
 - Doesn't store searches, customize your content, or track your browser
- Google's Trends tool**
- Carrot** — Is an Open Source Search Results Clustering Engine.
- Report**
 - The CIA's communications suffered a catastrophic compromise
 - 30 spies dead after Iran cracked CIA comms network with, er, Google search

6. Effective Habits and Process

- Getting Connected or Not: Do you connect to your target on social media**
- Decide on TTPs**
 - Create an Standard Operation Procedure (SOP) with the TTPs used in various cases
 - Map TTPs out in advance to cover different paths
 - Michael Bazzell's web site has free flow charts that can be used to augment your processes
- Flow charts for research on** — Email Addresses, Domains, Real Names and Usernames, Phones, Locations
- Repeating the Process** — Collect data <-> Analyze data <-> Determine new collection goals