

Gathering Physical OSINT



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Overview



Physical locations

Remote locations

Business relationships



Physical Reconnaissance

Gathering information about the physical locations that support the target organization's operations



Dumpster-diving and
physical on premise items
are out-of-scope



“Time spent in reconnaissance is seldom wasted.”

John Marsden, author



Remember the Levels of OSINT?



Three Levels of OSINT



Compliance Driven (L1)

PCI
FISMA



Best Practice (L2)

Mature Program
Customer Expectation



State Sponsored (L3)

Critical Infrastructure
Political Climate



Locations (L1)



Per Location

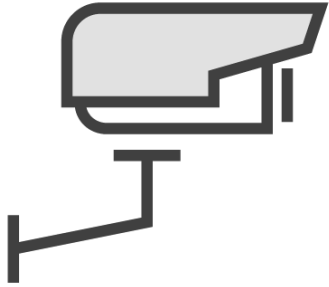
Full Address

Ownership

Associated
Records
(City, Tax, Legal)



Physical Security Measures



Camera Placements



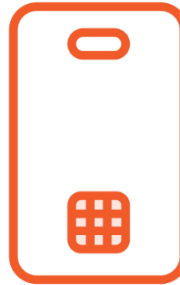
Sensors



Fences/Gates



Guard Posts



Types of Identification



Entry Points
(Employee, Supplier)



Physical Presence -> Virtual Presence



Physical Locations



IP Blocks

For Hosts/NOC

Full CIDR Notation
(Hosts & Networks)

Full DNS Listing
(All associated
assets)

Full Mapping of
AS

Peering Paths

CDN Provisioning

Netblock Owners
(Whois Data)





Hurricane Electric

- <http://bgp.he.net/>

Robtex

- <https://www.robtex.net/>



Internet-wide Scan Data Repository

- <https://scans.io/>

Censys

- <https://www.censys.io/>



L1 and L2

Land/tax records

Owner

Shared/individual

Time zones

Hosts/NOC





Search Engines

- Google - <https://www.google.com/>
- Bing - <https://www.bing.com/>
- DuckDuckGo - <https://duckduckgo.com/>

`"company_name"` headquarters address

`"company_name"` branch office

`"city state"` county

Search Engine Queries

Usage: Identify physical locations associated with the target organization



Finding Tax Records



Search for physical
address



Link city to county



Conduct a property
search on county
auditor website

Pervasiveness (L1)



Headquarters



Branch/remote locations?



Security Radius



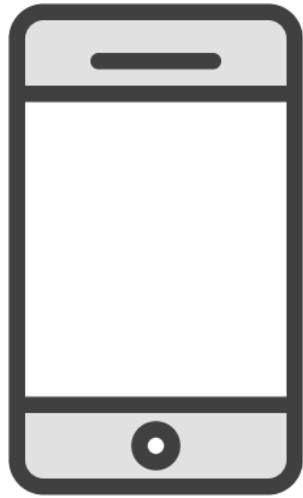
On-site Reconnaissance



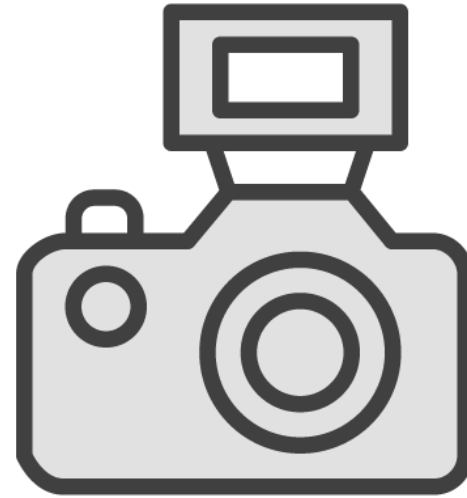
In-scope or out-of-scope?



Pictures, or It Didn't Happen

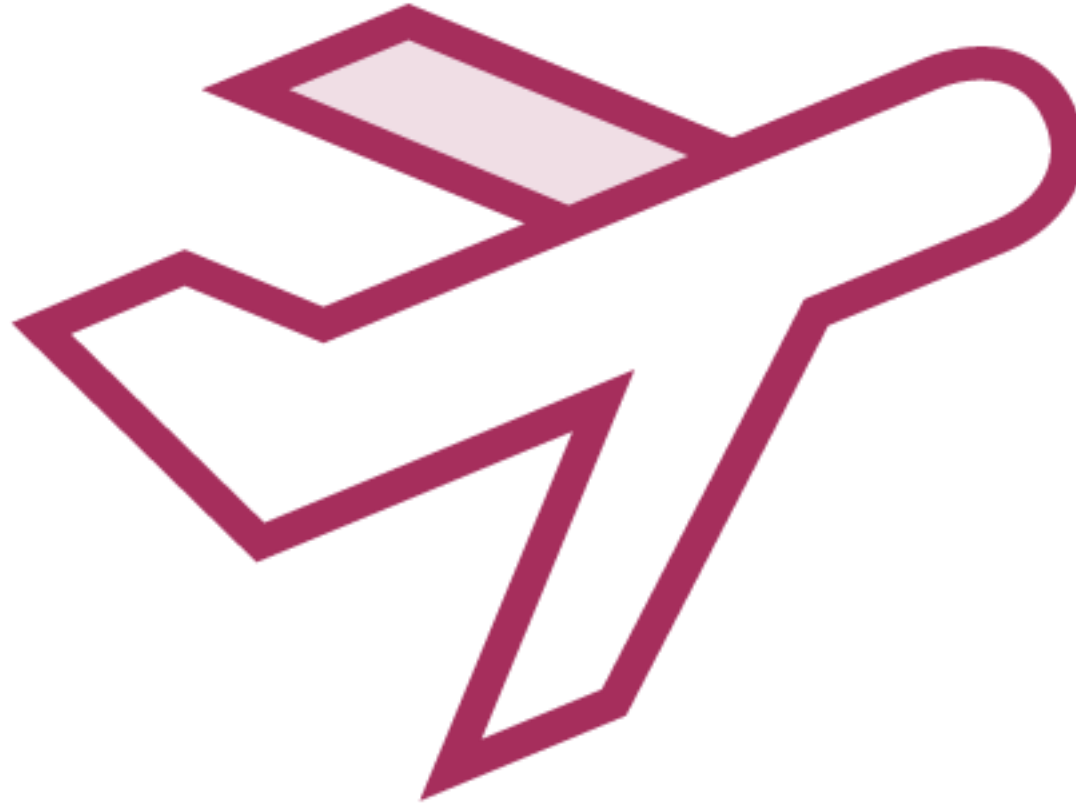


Camera Phone



DSLR

What About Drones?



Small Unmanned Aircraft Rule

Operational Limitations

Remote Pilot in Command
(Certification and
Responsibilities)

Aircraft Requirements

Model Aircraft





IntelTechniques Custom Map Tool

- <https://inteltechniques.com/osint/maps.html>

Step 1: Enter physical address

Step 2: Copy latitude and longitude from XML to GPS location search fields

Step 3: Click submit, open 16 tabs



Relationships (L1)



Business partners
Customers
Suppliers
Rental companies
Corporate website
Search engines

Basics



L2 and L3

Relationships

Shared office space

Shared infrastructure

Rented/leased equipment



Validate scope and
rules of engagement



Demo



Bug bounty program: Indeed

- <https://bugcrowd.com/indeed>



Summary



Locations

Pervasiveness

Relationships

On to the next module:
Gathering Logical OSINT

