

A PRIMER ON OSINT

Null/OWASP Bangalore
21st December, 2019



ABOUT ME

- ❖ ASE-T @T.C.S. Ltd
- ❖ Hyper Curious
- ❖ Musician
- ❖ Little Vulnerable





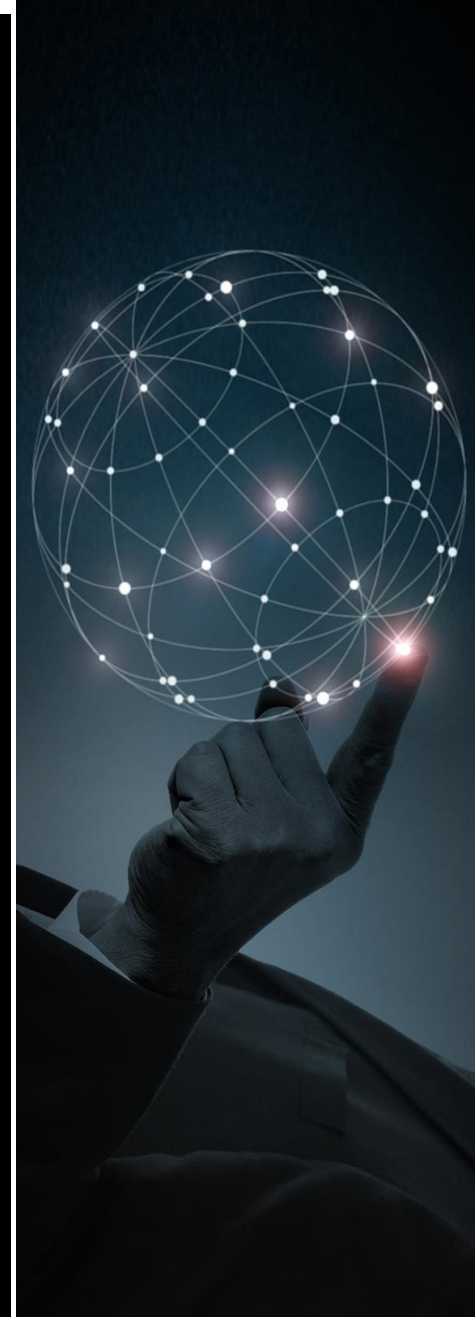
AGENDA

- ❑ *Getting Started*
- ❑ *Types of Intelligence Gathering*
- ❑ *A Scenario*
- ❑ *OSINT Gathering TTPs*
- ❑ *Applications*
- ❑ *Demos*
- ❑ *OSINT of OSINT*
- ❑ *References*
- ❑ *Conclusion*

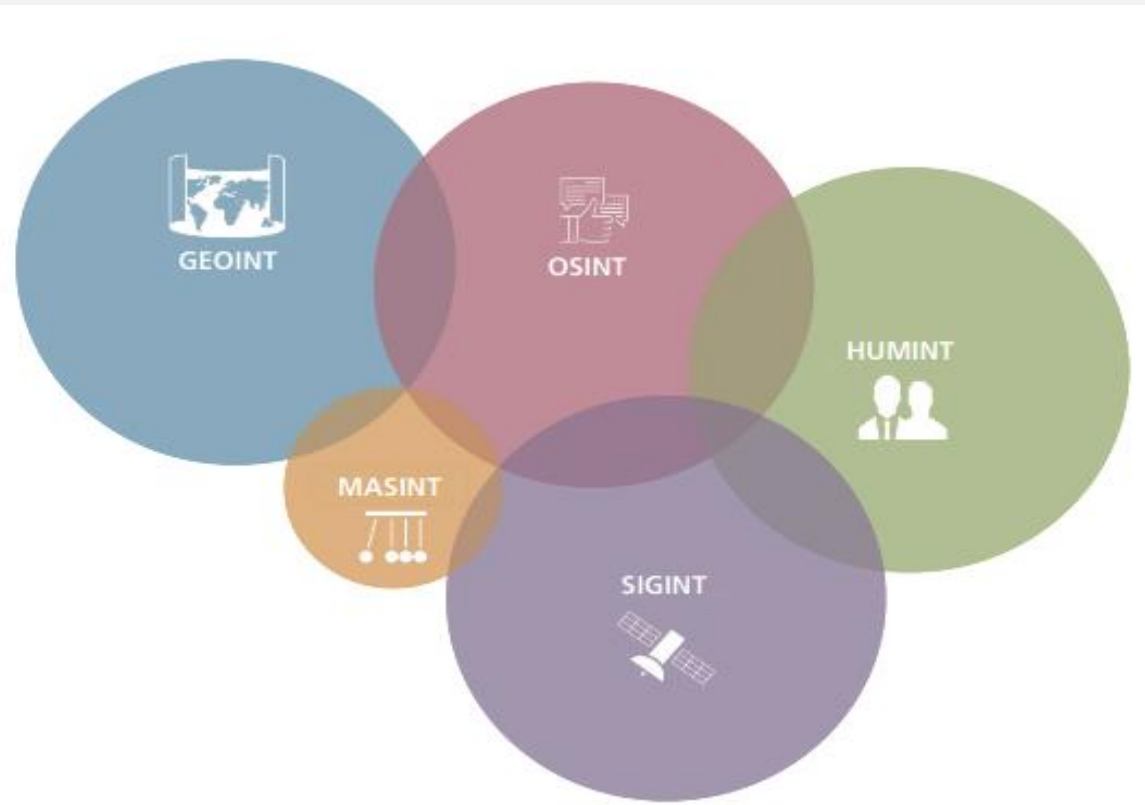


GETTING STARTED

OSINT



TYPES OF INTELLIGENCE GATHERING



intelligence

/ɪnˈtɛlɪdʒ(ə)ns/

noun

noun: **intelligence**

1. the ability to acquire and apply knowledge and skills.
"an eminent man of great intelligence"

Similar:

intellectual/mental capacity

intellect

mind

brain

brains



- a person or being with the ability to acquire and apply knowledge and skills.
plural noun: **intelligences**
"extraterrestrial intelligences"

2. the collection of information of military or political value.
"the chief of military intelligence"

Similar:

information gathering

surveillance

observation

reconnaissance



- people employed in the collection of military or political information.
"British intelligence has secured numerous local informers"
- military or political information.
"the gathering of intelligence"

Similar:

information

facts

details

particulars

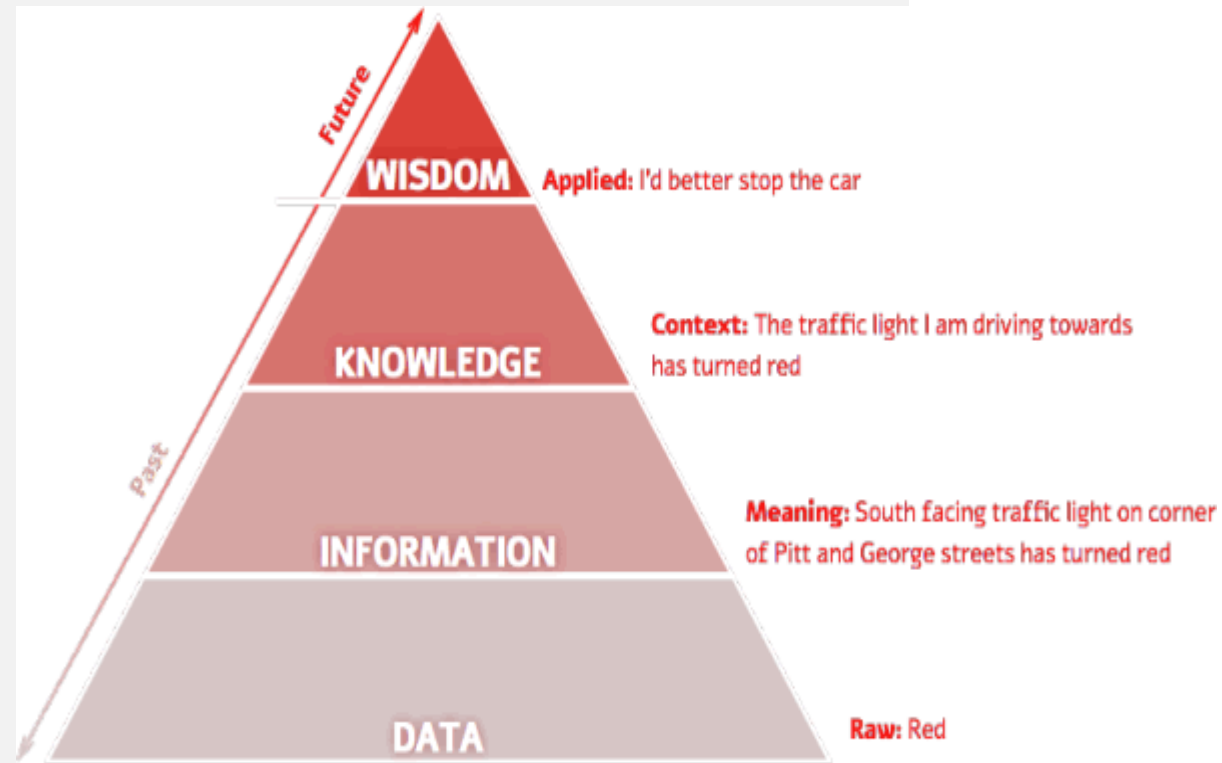
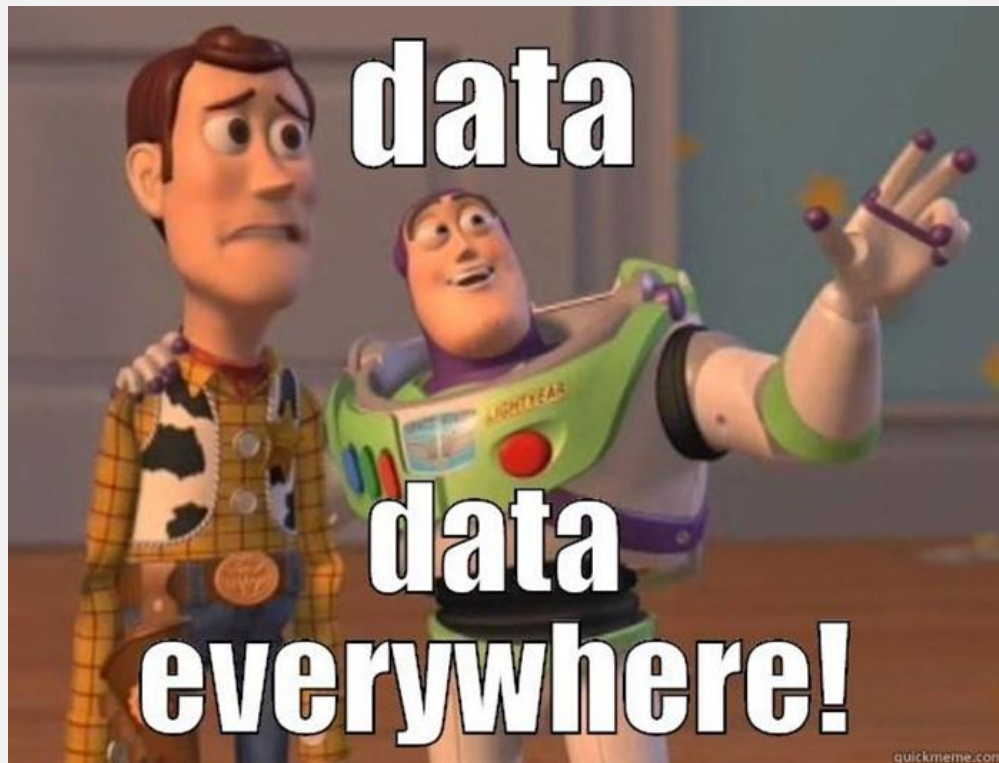
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figures

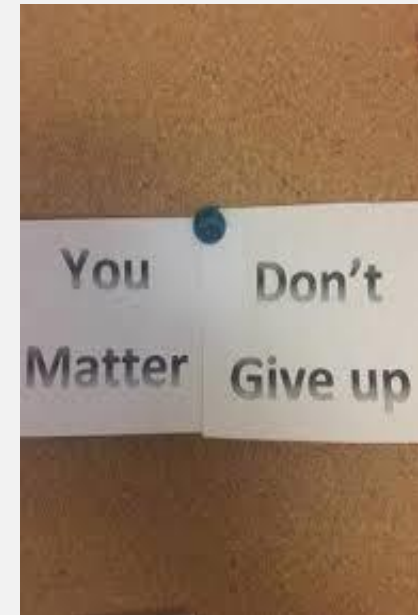


- **ARCHAIC**

information in general; news.

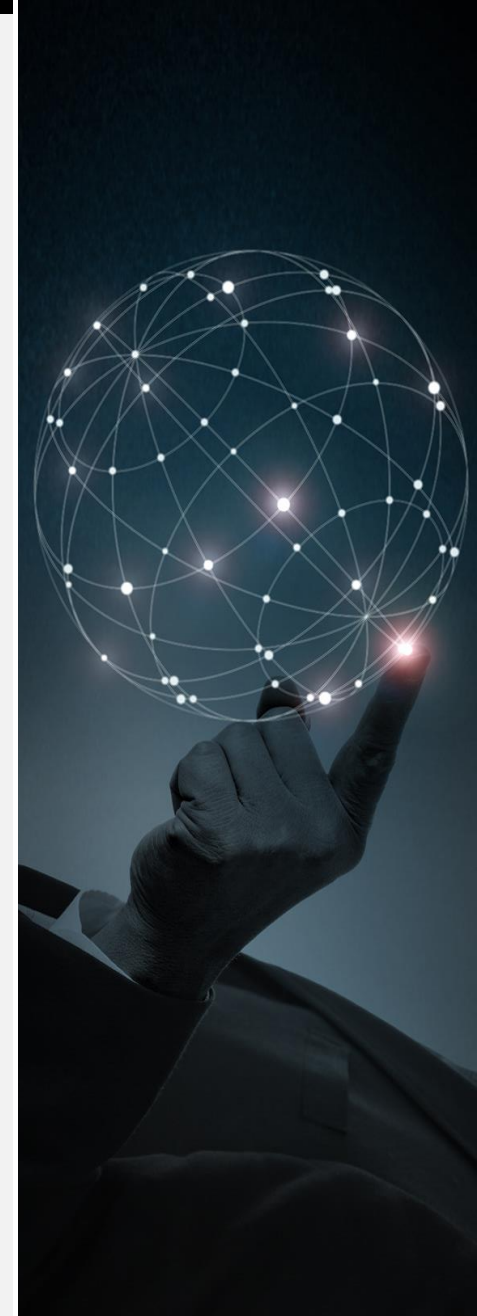


**IF YOU DON'T KNOW
WHAT YOU WANT, YOU
END UP WITH A LOT
YOU DON'T**



The first secret of getting what you want is knowing what you want.

— Arthur D. Hlavaty —



A SCENARIO



So what do you do in your free time?

5:13 pm

I do OSINT 5:13 pm ✓✓

Okay 5:14 pm

Umm 5:14 pm

I like to swim 🏊 5:14 pm

I know 5:14 pm ✓✓



Type a message



OSINT GATHERING TTPS

TweetDeck

- A social media dashboard application for management of Twitter accounts
- Customisable dashboard with unlimited columns to monitor trends, follow hashtags, and perform live searches
- Helps in observing events and incidents when supplied with proper filters
- You just need a Twitter Account [[Click Here](#)]
- Using Boolean Operators AND and OR, create filters



Google Dorks

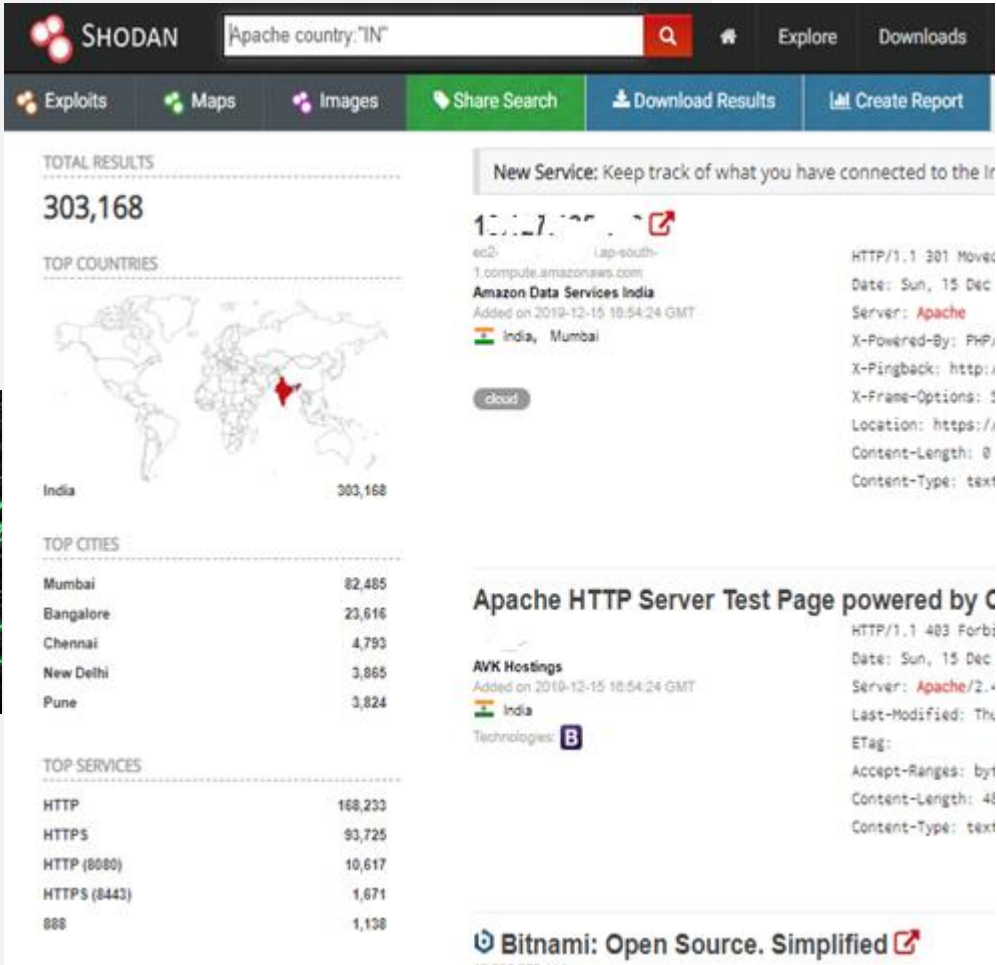
- Using Google Search for ‘focussed’ queries
- Finding vulnerable web applications and servers by using native Google search engine capabilities.
- Entire lists of queries with the formats are available to query ANYTHING.
- Dorks are populated on [ExploitDB](#)
- Interesting resources can be
 - Logs with ‘juicy’ info (eg. MySQL logs)
 - CSV files (eg. Payroll CSVs)
 - Login Pages (Admin portals)
 - Sensitive Directories and Files (eg. SSH keys)



2019-12-16	[ipn] ext:log	Files Containing Juicy Info
2019-12-16	site:*/siteminderagent/forms/login.fcc	Pages Containing Login Portals
2019-12-12	inurl:"web.config" & intext:"Data Source" & "User ID" & "Password" & "connectionString" & ext:config -git	Files Containing Juicy Info
2019-12-10	Navicat MySQL Data Transfer filetype:sql	Files Containing Juicy Info
2019-12-09	intext:"civicplus" "Login"	Pages Containing Login Portals
2019-12-02	intitle:"TMSoft MyAuth Gateway 3" -DOWNLOAD	Pages Containing Login Portals
2019-12-02	intitle:MK-AUTH :: CONTEUDO RESTRITO -site:mk-auth.com.br	Pages Containing Login Portals
2019-12-02	inurl:10443/remote/login	Pages Containing Login Portals
2019-12-02	ext:sql intext:@gmail.com intext:e10adc3949ba59abbe56e057f20f883e	Files Containing Juicy Info
2019-11-26	site:*/my.policy	Pages Containing Login Portals

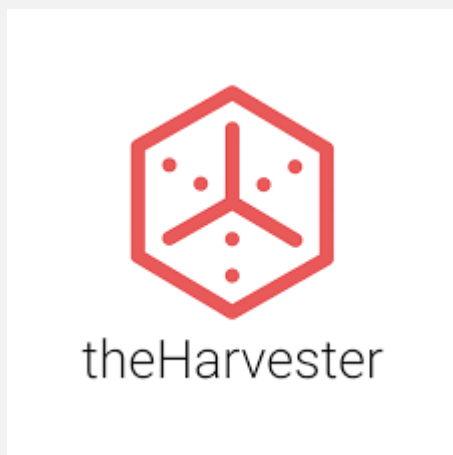
Shodan

-



TheHarvester

- Gather emails, subdomains, hosts, employee names, open ports and banners from different public sources like various search engines, PGP key servers and SHODAN computer database
- Used for Passive Recon on targets



```
root@kali:~# theharvester -d kali.org -l 500 -b google
```

```
*****
*
* | | | | _ _ _ _ ^ ^ _ _ _ _ _ _ _ _ | | _ _ _ _ _ _ _ _
* | _ | ' _ \ / _ \ / / / / _ _ | ' _ \ \ / / _ \ _ | _ / _ \ ' _ |
* | | | | | _ / _ / ( | | | \ v / _ \ _ \ | | _ / |
* \ | | | | \ | \ / / \ \ , _ | | \ / \ | | _ \ _ \ | |
*
* TheHarvester Ver. 3.0.0
* Coded by Christian Martorella
* Edge-Security Research
* cmartorella@edge-security.com
*****
```

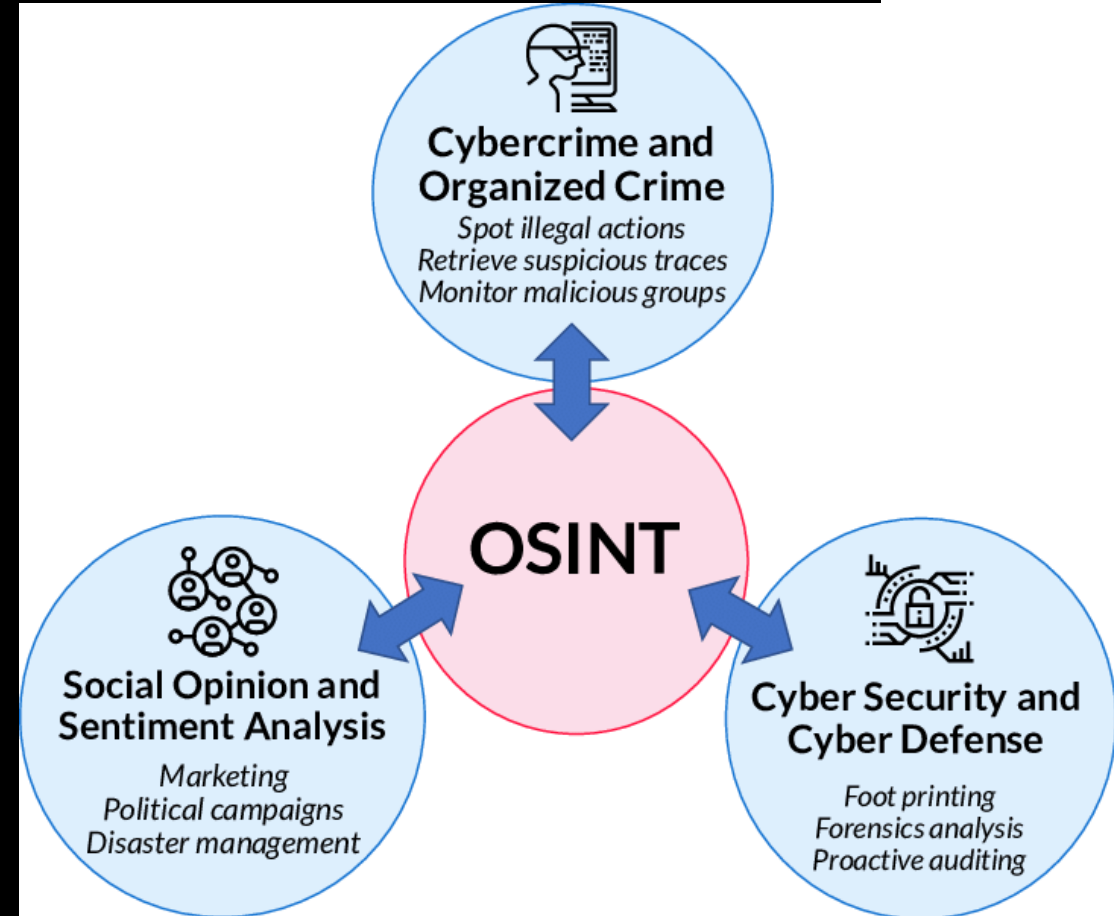
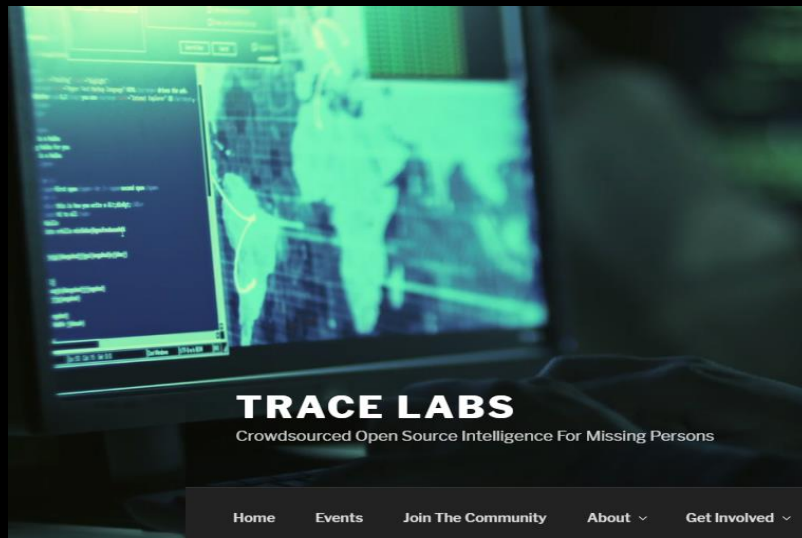
```
[-] starting harvesting process for domain: kali.org
```

```
[-] searching in Google:
    searching 0 results...
    searching 100 results...
    searching 200 results...
    searching 300 results...
    searching 400 results...
    searching 500 results...
```

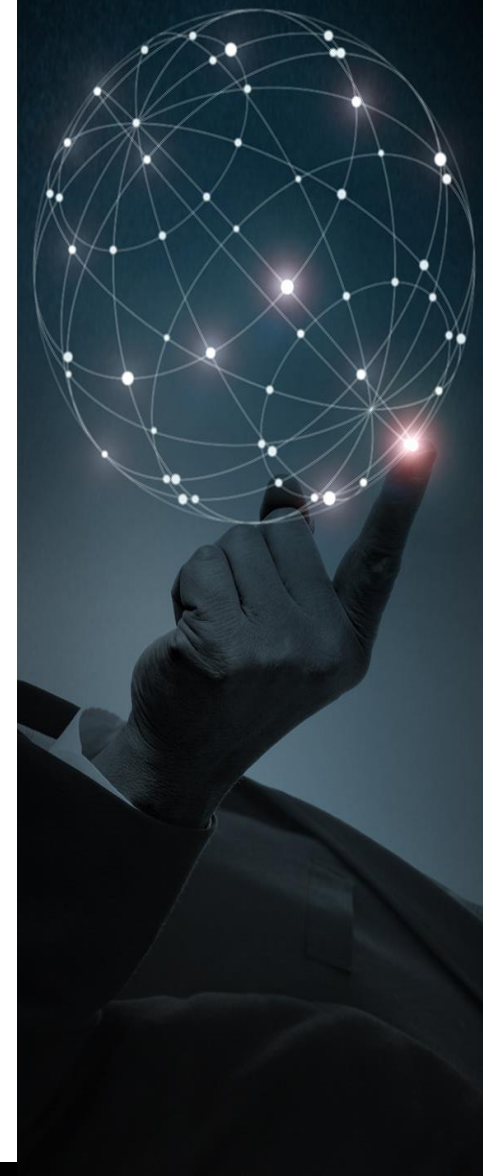
```
Harvesting results
...
```

APPLICATIONS

- Reconnaissance, primary stage of P.T.
- Used by Companies to test their public presence
- [Tracelabs](#), an OSINT based startup finds missing people by conducting CTFs
- Used/Applied by Threat Hunters, Security Professionals and alike 😊



DEMO



OSINT OF OSINT

- Twitter: @s0md3v, @midnight_comms, @OsintCurious
- Github: <https://github.com/jivoi/awesome-osint>
- Tracelabs: <https://www.tracelabs.org/>
- OSINT Framework: <https://osintframework.com/>
- OSINT Curious Podcast: <https://osintcurio.us/>
- OSINT Stash: <https://osint.best/>
- 2nd Generation OSINT for the Defense Enterprise: [[link](#)]
- Seclists by Daniel Miessler [[link](#)]
- The Privacy Security & OSINT Show [[link](#)]



REFERENCES

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- <https://pen-testing.sans.org/blog/2015/12/08/effective-shodan-searches>
- <https://shodan.io>
- <https://github.com/laramies/theHarvester>
- <https://medium.com/hacker-toolbelt/the-harvester-osint-reconnaissance-91a18a294a30>
- https://www.rand.org/content/dam/rand/pubs/research_reports/RR1900/RR1964/RAND_RR1964.pdf
- <https://tracelabs.org>
- <https://jakecreps.com/2018/09/28/advanced-osint-tools/>
- https://www.researchgate.net/figure/OSINT-principal-use-cases_fig1_333703698



**QUESTIONS,
YOU MUST ASK.**



ME



THANK YOU :)

