

OSINT – Domain information Gathering



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Prerequisites

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- Lectures:
- OSINT: What is open source intelligence and how is it used? | The Daily Swig (portswigger.net)
- OSINT without APIs - SpiderFoot
- Concepts:
- Basic knowledge of networking, linux command line and web infrastructure (whois, dns, ip, hostnames...)

Outline

The scope of this guide is to collect and present some useful tools that can aid in the initial phase of a website domain analysis:

- Identify the current and past owner(s) of a website
- Recognize the thechnology used for building the website
- Enumerate the infrastructure hosting the website and all the assets correlated
- Collect e-mail addresses related to the domain

Outline

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- Information gathering using public websites
- Information gathering using linux cli tools
- Mapping of the relevant results in Maltego

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Information gathering using public websites

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- <https://community.riskiq.com/>
 - WHOIS, passive dns, reverse hostname from ssl certificates, reverse ip for domains in same host
- <https://viewdns.info/reversewhois>
 - Reverse whois from owner name or email address
- <https://domainbigdata.com/>
 - Whois history, identify the previous owners of the website

Information gathering using public websites

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- <http://dnshistory.org/>
 - Past DNS records
- <https://search.censys.io/>
 - Reverse whois from owner name or email address
- <https://www.whoxy.com/>
 - Reverse analysis of domain name in https certificates

Information gathering using public websites

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- <http://dnshistory.org/>
 - Past DNS records
- <https://dnsdumpster.com/>
 - Analyze the DNS records of the website and graphically map them
- <https://builtwith.com/>
 - Identify the technology used for building the website

Information gathering using public websites

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- <https://archive.org/>
 - Search for old saved snapshots of the website
- <https://analyzeid.com/>
 - Identify websites with the same google analytics id

Outline

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- Information gathering using public websites
- **Information gathering using linux cli tools**
- Mapping of the relevant results in Maltego

Information gathering using linux cli tools

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➤ <https://github.com/OWASP/Amass>

- Perform reverse DNS recognition
- Usage: `amass enum -passive -d domain.com -src`

➤ <https://github.com/s0md3v/Photon>

- Url, files and mail crawler
- Usage: `docker run -it --name photon photon:latest -u domain.com`

➤ <https://github.com/elceef/dnstwist>

- Typosquatting domain analysis (similar registered domain that can be used in malicious activities)
- Usage: `dnstwist -r domain.com`

Information gathering using linux cli tools

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- <https://github.com/evyatarmeged/Raccoon>
 - Automated whois, subdomain mapping and export
 - Usage: `raccoon domain.com`
- <https://github.com/laramies/theHarvester>
 - Gathers emails, names, subdomains, IPs and URLs
 - Usage: `python3 theHarvester.py -d domain.com -b all -l 300`
- <https://github.com/smicallef/spiderfoot>
 - All in one information gathering tool
 - Usage: `python3 sf.py -l 0.0.0.0:80`

Information gathering using linux cli tools

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➤ <https://github.com/lanmaster53/recon-ng>

- OSINT reconnaissance framework similar to Metasploit
- Usage with hackertarget module (subdomain enumeration)

recon-ng

workspaces create test

marketplace install hackertarget

modules load hackertarget

show options

options set SOURCE domain.com

run

Outline

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- Information gathering using public websites
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Information gathering using linux cli tools

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➤ <https://www.maltego.com/downloads/>

- Tool for graphical link analyses, used to find correlations between entities found in the gathering phase.

Could be used for sharing and collaborating in real time between multiple users on the same report.

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