

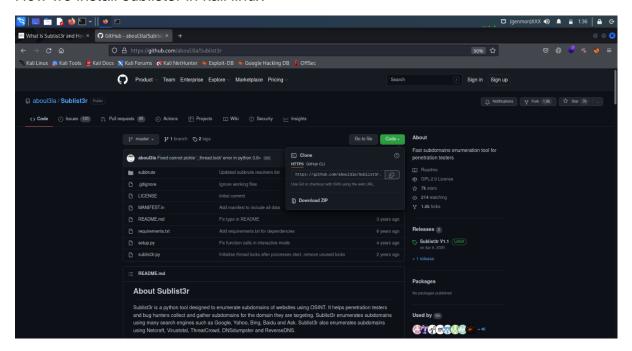


Enumeration (Tools)

What is Sublist3r and How to Use it?

Sublister is a tool designed in python and uses OSINT in order to enumerate subdomains of websites. It helps pen-testers in collecting and gathering subdomains for a domain which is their target. In order to fetch the accurate results, sublister uses many search engines like Google, Yahoo, etc. and even tools like Netcraft, Virustotal, etc.

How we install sublist3r in kali linux



Git clone https://github.com/aboul3la/Sublist3r.git

Python3 sublist3r.py

```
4. To run the tool, Enter the following command in the terminal.

./sublist3r.py
```

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```

./sublist3r.py -help (help manual)

OPTIONS:

-h, --help show this help message and exit

-d DOMAIN, --domain DOMAIN

Domain name to enumerate it's subdomains

-b [BRUTEFORCE], --bruteforce [BRUTEFORCE]

Enable the subbrute bruteforce module

-p PORTS, --ports PORTS

Scan the found subdomains against specified tcp ports

-v [VERBOSE], --verbose [VERBOSE]

Enable Verbosity and display results in realtime

-t THREADS, --threads THREADS

Number of threads to use for subbrute bruteforce

-e ENGINES, --engines ENGINES

Specify a comma-separated list of search engines

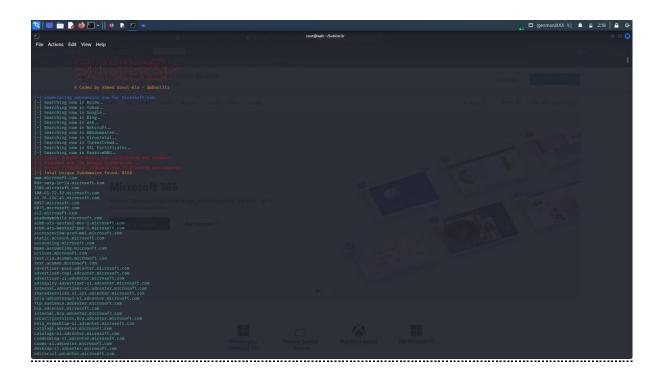
-o OUTPUT, --output OUTPUT

Save the results to text file

-n, --no-color Output without color

Let do practical

Simple scan to find subdomain :-



Commands:- python sublist3r.py -d microsoft.com

-o -output

python sublist3r.py -d microsoft.com -o (name of file)

-e -engines

python sublist3r.py -d microsoft.com -e (name of engines like google, yahoo, Bing , etc)

-v –verbose (real time output)

Dnsenum Tool

Dnsenum is a tool for DNS enumeration, which is the process of locating all DNS servers and DNS entries for an organization.

DNS enumeration will allow us to gather critical information about the organization such as usernames, computer names, IP addresses, and so on.

DNSENUM OPTIONS

dnsserver queries.	<pre><server> Use this DNS server for A, NS and MX</server></pre>
enum w.	Shortcut option equivalent tothreads 5 -s 15 -
-h,help	Print this help message.
noreverse	Skip the reverse lookup operations.
nocolor	Disable ANSIColor output.
private domain_ips.txt.	Show and save private ips at the end of the file

subfile <file></file>	Write all valid subdomains to this file.
-t,timeout <value>(default: 10s).</value>	> The tcp and udp timeout values in seconds
threads <value> different queries.</value>	The number of threads that will perform
-v,verbose the error messages.	Be verbose: show all the progress and all
GOOGLE SCRAPING OPTIC	DNS:
	The number of google search pages to process the default is 5 pages, the -s switch must
-s,scrap <value> be scraped from Googl</value>	The maximum number of subdomains that will Le (default 15).
BRUTE FORCE OPTIONS:	

-f, --file <file> Read subdomains from this file to perform brute force. -u, --update $\langle a|g|r|z \rangle$ Update the file specified with the -f switch with valid subdomains. a (all) Update using all results. Update using only google scraping results. Update using only reverse lookup results. r Update using only zonetransfer results. -r, --recursion Recursion on subdomains, brute force all discovred subdomains that have an NS record. WHOIS NETRANGE OPTIONS: -d, --delay <value> The maximum value of seconds to wait between whois queries, the value is defined randomly, default: 3s. -w, --whois Perform the whois queries on c class network ranges. REVERSE LOOKUP OPTIONS: -e, --exclude <regexp> Exclude PTR records that match the regexp expression from reverse lookup results, useful on invalid

hostnames.

```
OUTPUT OPTIONS:

-o --output <file> Output in XML format. Can be imported in MagicTree
```

Lab 1: Enumeration With Default Settings

Syntax : dnsenum -enum <url>

Command : dnsenum -enum google.com

```
ali:~# dnsenum --enum google.com
 nsenum.pl VERSION:1.2.3
                                                                                      74.125.130.100
 oogle.com.
                                                                  ΙN
                                                                                      74.125.130.101
oogle.com.
                                                      62
                                                                                      74.125.130.102
74.125.130.113
74.125.130.138
oogle.com.
                                                      62
                                                                  ΙN
oogle.com.
 oogle.com.
                                                                                      74.125.130.139
oogle.com.
s1.google.com.
                                                      343227
                                                                  ΙN
                                                                                      216.239.32.10
                                                                                    216.239.34.10
216.239.36.10
216.239.38.10
ns2.google.com.
                                                      343227
s3.google.com.
                                                      343227
s4.google.com.
                                                      343227
                                                      17
                                                                                      74.125.129.27
spmx.l.google.com.
                                                                  ΙN
alt1.aspmx.l.google.com.
alt3.aspmx.l.google.com.
alt4.aspmx.l.google.com.
                                                                                      74.125.142.26
173.194.68.27
74.125.131.27
                                                      38
                                                                  ΙN
                                                      178
                                                      163
                                                                  ΙN
                                                                                      74.125.137.27
alt2.aspmx.l.google.com.
                                                      293
```

LAB 2: ENUMERATION OF SUBDOMAIN USING BRUTEFORCE AND FROM FILE

hen you run this command, it with perform brute force search on subdomains along with the custom file passed as an attribute.

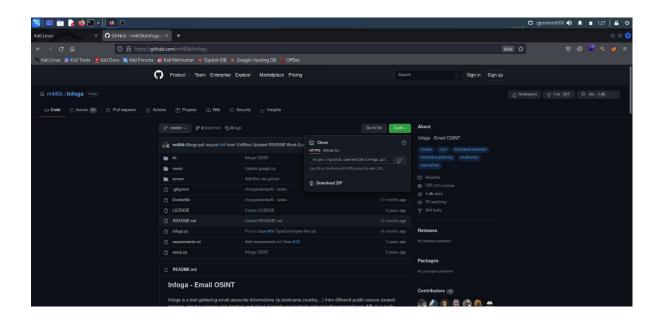
```
Syntax : dnsenum -f <file> -r <url>
Command : dnsenum -f subdomain.txt -r hacker.com
```

```
:~# cat subdomain.txt
ail
ebmail
service
support
lients
<mark>oot@kali:~#</mark> dnsenum -f subdomain.txt -r hacker.com
dnsenum.pl VERSION:1.2.3
 --- hacker.com -----
                                                                               207.70.175.42
acker.com.
                                                  86400
                                                             IN
                                                 2816
2816
                                                             IN
IN
                                                                                198.190.226.3
198.190.226.30
s30.consolidated.net.
s31.consolidated.net.
                                                                                206,123,242.66
207.70.175.42
206.123.242.67
                                                             IN
IN
IN
mail.hacker.com.
                                                  300
                                                  86400
ww.hacker.com.
webmail.hacker.com.
                                                  28860
```

Infoga Tool

Infoga – Email Information Gathering Tool in Kali Linux

Infoga is a free and open-source tool available on GitHub, which is used for finding if emails were leaked using haveibeenpwned.com API. Infoga is used for scanning email addresses using different websites and search engines for information gathering and finding information about leaked information on websites and web apps. It is one of the easiest and useful tools for performing reconnaissance on websites and web apps for email analysis. The Infoga tool is also available for Linux operating systems. This tool can gather information such as ip, country of email and hostname also. This tool gets information from different public sources such as websites and search engines. For example, Google, Shodan, etc. This tool is very helpful for security researchers at early phases of penetration testing.



Downloads from GitHub :-

```
| The Atlana Edit View Help | Target URL/Name | Target URL Name |
```

Python infoga.py (running commands)

Help commands

-d --domain Target URL/Name-s --source Source data, default "all":

all Use all search engine
google Use google search engine
bing Use bing search engine
yahoo Use yahoo search engine
ask Use ask search engine
baidu Use baidu search engine
dogpile Use dogpile search engine
exalead Use exalead search engine
pgp Use pgp search engine

-b --breach Check if email breached
 -i --info Get email informations
 -r --report Simple file text report
 -v --verbose Verbosity level (1,2 or 3)
 -H --help Show this help and exit

```
root@kali:~/Infoga

File Actions Edit View Help

root@kali:~/Infoga# python infoga.py —domain geeksforgeeks.com
—source google —verbose 3

-=[ Infoga - Email OSINT
-=[ Momo (m4ll@k) Outaadi
-=[ https://github.com/m4ll@k

[*] Searching "geeksforgeeks.com" in Google ...
[i] Found 2 emails in Google
[+] Email: raghav.agg@geeksforgeeks.com ()
[i] Not found information (on shodan) for this email, search thi s ip/ips on internet..

[+] Email: 22@geeksforgeeks.com ()
[i] Not found information (on shodan) for this email, search thi s ip/ips on internet..
```

python infoga.py —domain fbi.gov —source google —verbose 3

What Web Tool

Whatweb is a free and open-source tool available on GitHub. Whatweb is a scanner written in the Ruby language. This tool can identify and recognize all the web technologies available on the target website. This tool can identify technologies used by websites such as blogging, content management system, all JavaScript libraries. Whatweb contains more than 180 modules. each module is responsible for grabbing particular information from the target website. Whatweb works as an information-gathering tool and can identify all the email addresses, SQL errors, technology used in the website.



Whatweb (url)

Like: - https://www.cryptus.in/

EXAMPLE USAGE:

* Scan example.com.

./whatweb example.com

- * Scan reddit.com slashdot.org with verbose plugin descriptions.
 - ./whatweb -v reddit.com slashdot.org
- * An aggressive scan of wired.com detects the exact version of WordPress.
 - ./whatweb -a 3 www.wired.com
- * Scan the local network quickly and suppress errors.

whatweb --no-errors 192.168.0.0/24

* Scan the local network for https websites.

whatweb --no-errors --url-prefix https:// 192.168.0.0/24

- * Scan for crossdomain policies in the Alexa Top 1000.
 - ./whatweb -i plugin-development/alexa-top-100.txt \
 - --url-suffix /crossdomain.xml -p crossdomain xml

Dmitry Tool

Dmitry is a free and open-source tool available on GitHub. The tool is used for information gathering. You can download the tool and install in your Kali Linux. Dmitry stands for DeepMagic Information Gathering Tool. It's a command-line tool Using Dmitry tool You can collect information about the target, this information can be used for social engineering attacks. It can be used to gather a number of valuable pieces of information

```
Usage: dmitry [-winsepfb] [-t 0-9] [-0 %host.txt] host
-0 Save output to %host.txt or to file specified by -0 file
-i Perform a whois lookup on the IP address of a host
-w Perform a whois lookup on the domain name of a host
-n Retrieve Netcraft.com information on a host
-s Perform a search for possible subdomains
-e Perform a search for possible email addresses
-p Perform a TCP port scan on a host
* -f Perform a TCP port scan on a host showing output reporting filtered ports
* -b Read in the banner received from the scanned port
* -t 0-9 Set the TTL in seconds when scanning a TCP port ( Default 2 )
**Requires the -p flagged to be passed.
```

Usages of Dmitry Tool:

- Dmitry Tool can be used to search subdomains of the target.
- Dmitry Tool can be used to find open ports of the target system.
- Dmitry Tool can be used to perform TCP scan.
- Dmitry Tool can be used with netcraft service to get the target information such as operating system, web server details, web host details, hosting service details, etc.
- Dmitry Tool can be used with whois service to get the target information such as registered domain, name, address, the contact information of the person who registered it.

 Dmitry Tool can be used to get email addresses that are associated with the domain of the target.

Dimitry -help

```
File Actions Edit View Help

(reotE kali)-[~]

In dimitry - help

Deepmagic Information Gathering Tool

*There be some deep magic going on*

dmitry: invalid option -- '-'

Usage: dmitry [-winsepfb] [-t 0-9] [-o %host.txt] host

-o Save output to %host.txt or to file specified by -o file

-i Perform a whois lookup on the IP address of a host

-w Perform a whois lookup on the domain name of a host

-n Retrieve Netcraft.com information on a host

-s Perform a search for possible subdomains

-e Perform a search for possible email addresses

-p Perform a TCP port scan on a host

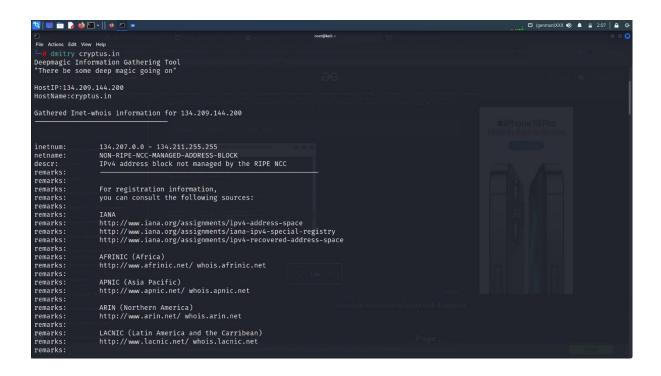
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*-b Read in the banner received from the scanned port

*-t 0-9 Set the TTL in seconds when scanning a TCP port ( Default 2 )

*Requires the -p flagged to be passed
```

-e (email information)



Full scan: - dmitry cryptus.in

Fierce Tool