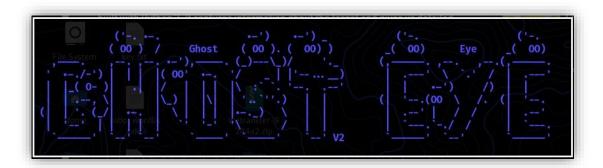
GhostEye



GhostEye is an information gathering, footprinting, scanner, and Reconnaissance tool built with Python 3. It captures information about the target and gives us detailed information about our objectives.

Features:

- It is a user-friendly tool.
- Provide an option to select for our attack preference.
- It has a feature of Etherape which is a Graphical Network Monitor and a packet sniffer that collects information and displays it graphically.
- Etherape is compatible with Ethernet, FDDI, Token Ring, ISDN, PPP, SLIP, and
 WLAN devices, as well as a variety of encapsulations.
- It can filter traffic to be shown and read packets from files as well as actual network data.

Installation:

• Step 1:

Install Python3 on Kali using the following command:

sudo apt install python3

```
(kali® kali)-[~/Ghost_Eye]
$ sudo apt install python3
[sudo] password for kali:
Reading package lists ... Done
Building dependency tree ... Done
Reading state information ... Done
python3 is already the newest version (3.9)
The following packages were automatically
python-babel-localedata python3-babel
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove
```

• Step 2:

In addition, you need to install the Nmap and EtherApe tools using the following command:

sudo apt install nmap etherape

```
(kali⊕kali)-[~/Ghost_Eye]
 sudo apt install nmap etherape
Reading package lists... Done
Building dependency tree ... Done
Reading state information... Done
nmap is already the newest version (7.91+dfsg1-1kali1).
The following packages were automatically installed and a
 python-babel-localedata python3-babel
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
 etherape-data libgoocanvas-2.0-9 libgoocanvas-2.0-commo
The following NEW packages will be installed:
 etherape etherape-data libgoocanvas-2.0-9 libgoocanvas-
0 upgraded, 4 newly installed, 0 to remove and 0 not upgr
Need to get 1,017 kB of archives.
After this operation, 5,304 kB of additional disk space w
Do you want to continue? [Y/n] y
Get:1 http://ftp.harukasan.org/kali kali-rolling/main amd
```

Step 3:

If you have completed the above requirements, then, you can proceed to the next step and clone the Ghost Eye repo using the following command:

git clone https://github.com/BullsEye0/ghost_eye.git

• Step 4:

The tool has been downloaded and cloned successfully. Now to list out the contents of the tool use the following command.

ls

```
____(kali⊕ kali)-[~/Ghost_Eye]
_$ ls
ghost_eye
```

Step 5:

Now that the Github archive file (i.e. ghost_eye) is installed in Kali, we need to change the working directory to the Ghost Eye folder.

cd ghost_eye

```
(kali@ kali)-[~/Ghost_Eye]

$ cd ghost_eye

(kali@ kali)-[~/Ghost_Eye/ghost_eye]

$ street
```

Step 6:

You are now in the tool's directory. The following command will list the contents of the directory.

ls

```
(kali@ kali)-[~/Ghost_Eye/ghost_eye]

$ ls
featured-image.png LICENSE requirements.txt
ghost_eye.py README.md

(kali@ kali)-[~/Ghost_Eye/ghost_eye]

$ property of the content of the
```

Step 7:

All the files in the tool are listed here. You may need to install tool requirements. To install the requirements, run the following command:

pip3 install -r requirements.txt

```
(kali⊕ kali)-[~/Ghost_Eye/ghost_eye]
 $ pip3 install -r requirements.txt
Requirement already satisfied: beautifulsoup4 in /usr/l
e 1)) (4.9.3)
Collecting cfscrape
 Downloading cfscrape-2.1.1-py3-none-any.whl (12 kB)
Collecting python-nmap
 Downloading python-nmap-0.6.4.tar.gz (43 kB)
                                       43 kB 1.0 MB/s
Requirement already satisfied: requests in /usr/lib/pyt
Requirement already satisfied: urllib3 in /usr/lib/pyth
1.26.4)
Collecting webtech
 Downloading webtech-1.2.12-py3-none-any.whl (120 kB)
                                      120 kB 3.8 MB/s
Requirement already satisfied: soupsieve>1.2 in /usr/li
ements.txt (line 1)) (2.2.1)
Building wheels for collected packages: python-nmap
```

Step 8:

All requirements have been downloaded. Now it's time to start the tool using the following command:

python3 ghost_eye.py

```
■ ■ ■ Bulls Eye

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```

Usage:

Whols Lookup

Whols searches the Whois database for an object. Whois a query and response protocol commonly used to access databases that show users from an Internet source, such as a domain name or IP address.

```
Erase is control-H (^H).
[~] Searching for Whois Lookup: geeksforgeeks.org
Domain Name: GEEKSFORGEEKS.ORG
Registry Domain ID: D155653061-LROR
Registrar WHOIS Server: Phois
                                       -modistry.com
                                       . . . com
Registrar URL: http://www.r.'...
Updated Date: 2021-05-27T15:47:14Z
Creation Date: 2009-03-19T06:08:55Z
Registry Expiry Date: 2023-03-19T06:08:55Z
Registrar Registration Expiration Date:
Registrar: PDR Ltd. d/b/a ______ry.com
Registrar IANA ID: 303
Registrar Abuse Contact Email: abuse-contact@publicdoma
Registrar Abuse Contact Phone: +1.2013775952
Reseller:
Domain Status: clientTransferProhibited https://icann.o
Registrant Organization: Privacy Protect, LLC (Privacy)
Registrant State/Province: MA
Registrant Country: US
Name Server: NS-1520.700200 22.0RG
DNSSEC: unsigned
JRL of the ICANN Whois Inaccuracy Complaint Form https
```

DNS Lookup

The next option that we will discuss is the **DNS Lookup tool** (Option 2 in Ghost Eye tool). DNS stands for "**Domain Name System**" and is the process by which a DNS record has been returned from a DNS server. Just like looking up a phone number in a phone book - that's why it's referred to as a "lookup". Interconnected computers, servers, and smartphones need to know how to

translate the email addresses and domain names people use into meaningful numerical addresses. A DNS lookup performs this function.

• Etherape - Graphical Network Monitor

It is a graphical network monitor and packet sniffer that collects and displays information graphically. It can also filter the traffic shown and read packets from a file as well as live from the network.



Nmap Port Scan

Nmap port scan looks for open ports on the provided connection or IP address. In the Ghost Eye script, a nmap -Pn scan is utilized. -pn causes all hosts to be treated as online, bypassing host discovery.

```
[~] Scanning Nmap Port Scan: geeksforgeeks.org
This will take a moment... Get some coffee (a)

Host discovery disabled (-Pn). All addresses will be marked 'up' and Starting Nmap 7.91 ( https://nmap.org ) at 2021-07-17 04:48 EDT
Nmap scan report for geeksforgeeks.org (34.218.62.116)
Host is up (0.28s latency).
rDNS record for 34.218.62.116: ec2-34-218-62-116.us-west-2.compute.a
Not shown: 998 filtered ports
PORT STATE SERVICE
80/tcp open http
443/tcp open http

Nmap done: 1 IP address (1 host up) scanned in 62.39 seconds
nmap -Pn geeksforgeeks.orglogs/nmap-2021-07-17 08:49:47
```

Clickjacking test

An attacker uses a transparent iframe in a window to direct the user to click a button or link to take another server with a similar-looking window. In a sense, the attacker captures the clicks intended for the original server and redirects them to the alternate server.

```
+] Enter your choice: 6
[+] Enter the Domain to test: geeksforgeeks.org
Testing Clickjacking Test: http://geeksforgeeks.org
Header set are:
Server:nginx
Content-Type:text/html; charset=UTF-8
X-Frame-Options:DENY
Content-Encoding:gzip
X-Akamai-Transformed:9 - 0 pmb=mRUM,2
Cache-Control:max-age=21286
Date:Sat, 17 Jul 2021 08:55:34 GMT
Content-Length: 19261
Connection: keep-alive
Vary:Accept-Encoding
Server-Timing:cdn-cache; desc=HIT, edge; dur=1
[+] Click Jacking Header is present
 +] You can't clickjack this site!
```

Robots.txt Scanner

The robots.txt file is used to inform online robots such as search engine crawlers about which areas of the website robots are allowed to explore and index.

```
[x] 15. Exit

[+] Enter your choice: 7
[+] Enter Domain: geeksforgeeks.org
Erase is control-H (^H).
[~] Scanning Robots.txt Scanner: geeksforgeeks.org
User-agent: *
Disallow: /wp-admin/
Disallow: /wp-content/plugins/
Disallow: /content-override.php
```

• Link Grabber

Link Grabber will analyse the HTML source code of a website and retrieve links from it. For simple review hrefs or pages, links are shown in plain text.

```
[+] Enter your choice: 9
[+] Enter Domain: geeksforgeeks.org

Erase is control-H (^H).
[~] Scanning Link Grabber:
geeksforgeeks.org
[+] Crawling URL http://geeksforgeeks.org/
[+] Crawling URL https://www.geeksforgeeks.org/
[+] Crawling URL https://www.geeksforgeeks.org/analysis-of-algori
[+] Crawling URL https://www.geeksforgeeks.org/analysis-algorithm
[+] Crawling URL https://www.geeksforgeeks.org/analysis-algorithm
[+] Crawling URL https://www.geeksforgeeks.org/g-fact-86/?ref=ghm
[+] Crawling URL https://www.geeksforgeeks.org/pseudo-polynomial-
[+] Crawling URL https://www.geeksforgeeks.org/pseudo-polynomial-
[+] Crawling URL https://www.geeksforgeeks.org/searching-algorithms]
[+] Crawling URL https://www.geeksforgeeks.org/sorting-algorithms]
[+] Crawling URL https://www.geeksforgeeks.org/sorting-algorithms]
[+] Crawling URL https://www.geeksforgeeks.org/graph-data-structu
```

IP Location Finder

We can use the IP Location Finder to find information about a certain URL or IP address. This tool will retrieve the latitude and longitude of the device or server.

Crawler Target URL + Robots.txt

```
https://www.geeksforgeeks.org/data-structureshttps://www.geeksforgeeks.org/category/progra
https://www.geeksforgeeks.org/articles-on-com
https://www.youtube.com/geeksforgeeksvideos/
https://practice.geeksforgeeks.org/courses/>
https://practice.geeksforgeeks.org/company-ta
https://practice.geeksforgeeks.org/topic-tags
https://practice.geeksforgeeks.org/faq.php>Ho
https://www.geeksforgeeks.org/contribute/>Wri
https://www.geeksforgeeks.org/write-interview
https://www.geeksforgeeks.org/careers/?job_ty
https://www.geeksforgeeks.org/how-to-contribu
https://www.geeksforgeeks.org/
https://www.geeksforgeeks.org/copyright-infor
https://www.geeksforgeeks.org/wp-includes/js/
https://www.geeksforgeeks.org/cookie-policy/
https://www.geeksforgeeks.org/privacy-policy/
https://ssl'
http://www')
[+] Robots.txt:
User-agent: *
Disallow: /wp-admin/
Disallow: /wp-content/plugins/
Disallow: /content-override.php
```

Exit

```
[+] 12. Traceroute
[+] 13. Crawler target url + Robots.txt
[+] 14. Certificate Transparency log monitor
[x] 15. Exit

[+] Enter your choice: 15

Blue Eye DONE... Exiting... Like to See Ya Hacking Anywhere ..!

—(kali@kali)-[~/Ghost Eye/ghost eye]
```

Advantages of using GhostEye include:

- Automation of **reconnaissance processes**, which saves time and effort for the user.
- Ability to gather a large amount of information about a target in a short amount of time.
- Integration with other tools for further analysis and exploitation.
- **User-friendly interface**, making it easy for both experienced and novice users to utilize.
- *Open-source availability*, making it free to use and customize.
- It can be used to gather information from various sources like domain, IP, Email, Website, and Social-Media.
- It can also be used to check the target's online presence and identify any vulnerabilities.
- Can help to **create a comprehensive report of the target's infrastructure**, which can be used to plan and execute a targeted attack.

nttps://www.ge	eeksforgeeks.org/how-to-install-ghost_eye-tool-in-kali-linux/
nttps://hacking	passion.com/getting-started-with-ghost-eye/
nttps://hacking reconnaissance	passion.com/ghost-eye-informationgathering-footprinting-and-e-tool-release/