

A PYTHON HACKING TOOL FOR ETHICAL HACKERS



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Overview

Hackers

Hacking Tools

Organizations

Coding Language

My Hacking Tool

HACKERS



Types of Hackers

- White Hat

- *Any persons that is an expert in Computer and Network Security that is hired by an organization to improve security, and has good intentions*
- *Ethical Hacker*



- Black Hat

- *Any persons that is an expert in Computer and Network Security with malicious intents, as well the sole purpose of compromising the targets computer and network systems*

Methodology of Hackers 🔊



Reconnaissance

Scanning

Gaining Control

Maintaining Access

Log Clearing

```
ep DETECTED 445.ips | wc -l
```

```
ad -20000 445.ips | grep DETECTED
```

```
70.162] DOUBLEPULSAR DETECTED!!!
```

```
54.182] DOUBLEPULSAR DETECTED!!!
```

```
59.10] DOUBLEPULSAR DETECTED!!!
```

```
27.78] DOUBLEPULSAR DETECTED!!!
```

```
5.45] DOUBLEPULSAR DETECTED!!!
```

```
6.229] DOUBLEPULSAR DETECTED!!!
```

```
.125] DOUBLEPULSAR DETECTED!!!
```

```
146.46] DOUBLEPULSAR DETECTED!!!
```

```
98.30] DOUBLEPULSAR DETECTED!!!
```

```
10.155] DOUBLEPULSAR DETECTED!!!
```

```
10.156] DOUBLEPULSAR DETECTED!!!
```

```
10.33] DOUBLEPULSAR DETECTED!!!
```

```
9.102] DOUBLEPULSAR DETECTED!!!
```

```
9.103] DOUBLEPULSAR DETECTED!!!
```

```
11.115] DOUBLEPULSAR DETECTED!!!
```

```
95.65] DOUBLEPULSAR DETECTED!!!
```

```
4.18] DOUBLEPULSAR DETECTED!!!
```

```
4.4] DOUBLEPULSAR DETECTED!!!
```

```
.194] DOUBLEPULSAR DETECTED!!!
```

```
6.209] DOUBLEPULSAR DETECTED!!!
```

```
6.137] DOUBLEPULSAR DETECTED!!!
```

```
6.250] DOUBLEPULSAR DETECTED!!!
```

```
6.71] DOUBLEPULSAR DETECTED!!!
```

```
.200] DOUBLEPULSAR DETECTED!!!
```

```
.24] DOUBLEPULSAR DETECTED!!!
```

```
98.8] DOUBLEPULSAR DETECTED!!!
```

```
~/PyGeoIpMap >>> python pygeoipmap.py -i ~/detected.ips -o map.png  
Processing 30626 IPs...
```

```
0.162, California, United States, 34.1476, -117.4581
```

```
4.182, California, United States, 33.8138, -117.7986
```

```
9.10, California, United States, 33.8138, -117.7986
```

```
7.78, , United States, 37.751, -97.822
```

```
.45, California, United States, 33.7265, -118.0069
```

```
.229, New South Wales, Australia, -33.8612, 151.1982
```

```
125, New South Wales, Australia, -33.8612, 151.1982
```

```
46.46, Queensland, Australia, -27.471, 153.0243
```

```
8.30, , Australia, -33.494, 143.2104
```

```
0.155, , Republic of Korea, 37.5112, 126.9741
```

```
0.156, , Republic of Korea, 37.5112, 126.9741
```

```
0.33, , Republic of Korea, 37.5112, 126.9741
```

```
.102, , Republic of Korea, 37.5112, 126.9741
```

```
.103, , Republic of Korea, 37.5112, 126.9741
```

```
1.115, , Republic of Korea, 37.5112, 126.9741
```

```
5.65, Beijing, China, 39.9289, 116.3883
```

```
.18, , Republic of Korea, 37.5112, 126.9741
```

```
.4, , Republic of Korea, 37.5112, 126.9741
```

```
194, , Republic of Korea, 37.5112, 126.9741
```

```
.209, , Republic of Korea, 37.5112, 126.9741
```

```
.137, , Republic of Korea, 37.5112, 126.9741
```

```
.250, , Republic of Korea, 37.5112, 126.9741
```

```
.71, , Republic of Korea, 37.5112, 126.9741
```

```
200, , Republic of Korea, 37.5112, 126.9741
```

```
24, , Republic of Korea, 37.5112, 126.9741
```

```
8.8, Shandong, China, 36.6683, 116.9972
```

Types of Hacking Tools

- Hacking Tools
 - Packet Sniffers
 - Root Kits
 - Social Engineering Kits
 - Virus/Trojan/Worm
- Hacking Tool Examples:
 - *Metasploit*
 - *Nmap*
 - *John the Ripper*
 - *Burp Suite*
 - *Nessus*
-

Hacking Tools Exploit 🔊

- SQL Injection
- Cross-Site Scripting (XSS)
- Cross-Site Forgery
- Session Management
- Broken Authentication
- Security Misconfiguration
- Request Forgery



A photograph of a group of people in a meeting or workshop. Several hands are raised, some with palms facing forward, suggesting an interactive session or a vote. The background is blurred, focusing attention on the hands and the central text. The image has a dark blue diagonal overlay on the left and right sides.

ORGANIZATIONS



Ethical Hacking/Hackers

- Ethical Hackers – Someone with strict morals and integrity that find vulnerabilities to correct them
- Ethical Hacking – Type of hacking preformed by Ethical Hackers

Why Organizations Need Ethical Hackers



- Cyber-attacks caused by malicious Black Hat Hackers costed “the global economy approximately \$445 billion per year” (Samtani, Chinn, Chen, & Nunamaker, 2017).

CODING LANGUAGE



Python

Creator –

Guido Van Rossum

Year Created –

1991

Developed By –

Python Software Foundation

Related Coding Languages –

Lisp, Tcl, Perl, Ruby, C#, Visual Basic,
Visual Fox Pro, Scheme or Java

*Top 10 Programming Languages
in 2018*





MY HACKING TOOL

```
*-----*
*
*  JTs Backer Tool
*  Hack Wisely!!
*
*-----*
```

[!] One Moment Please...

- ```

* Tool #1 - PDF Metadata Collector *
* Tool #2 - Raw HTML Webpage Grabber *
* Tool #3 - Cookie Grab *
* Tool #4 - BREF Link Parser *
* Tool #5 - Nmap Port Scanner *
* Tool #6 - IDS Tricker *
* Tool #7 - TCP Calculator *
* Tool #8 - SYN Flooder *
* Tool #9 - TTL Pkt Parser (BUGGY) *
```



# The 12 Sub-Tools

- 1) PDF Metadata Collector
  - 2) HTML Grabber
  - 3) Cookie Grabber
  - 4) Link Parser
  - 5) Nmap Port Scanner
  - 6) IDS Tricker
  - 7) TCP Calculator
  - 8) TCP Calculator
  - 9) TTL Packet Parser
  - 10) Anonymous FTP Scanner
  - 11) Brute Force FTP Credentials
  - 12) FTP Server Webpage Search
-

# How it Can Help Organizations



## **Reconnaissance**



## **Security Testing**

- Searching & Finding  
Vulnerabilities & Exploit



## **Internal Threat Assessment**





QUESTIONS?



# References

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CONTACT INFO. 🔊

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