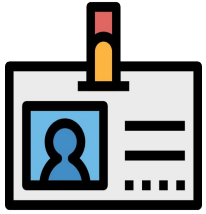


\$ whoami



Armado Reniery Rodas



Ing. Informática / MSc GTI



Consultor en Seg. Inf.



ITIL v4 – C)PTE – C)PEH – ISO 27k



OWASP Chapter Leader -
San Pedro Sula



Disclaimer



WARNING! Toda la información incluida en este medio tiene fines **educativos** y **profesionales**, en ningún caso OWASP, ni yo somos responsables del mal uso de esta información.



OSINT



Técnicas de Reconocimiento en un Test de Intrusión



Objetivos



- ☐ Conocer sobre la investigación en fuentes abiertas (OSINT).
- ☐ Mostrar la importancia del uso de OSINT durante la etapa de Reconocimiento, en una Prueba de Intrusión.
- ☐ Demostrar cómo realizar Reconocimiento de nuestro objetivo, haciendo uso de OSINT.



¿Te has preguntado qué tan grande es
Internet?



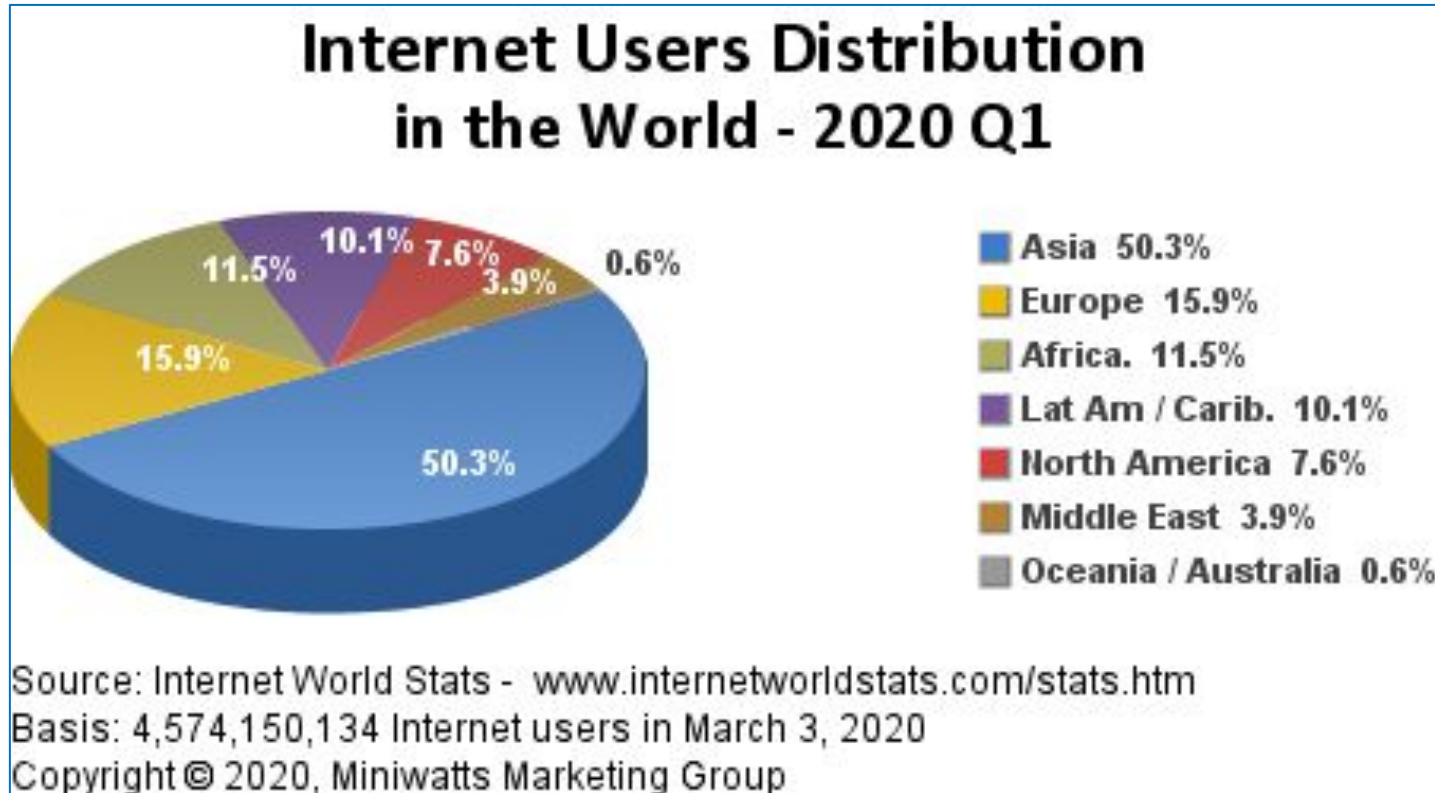
Y... ¿Qué tan expuesta está tu información?

Un poco de historia...



- ☐ 1969
- ☐ ARPANET

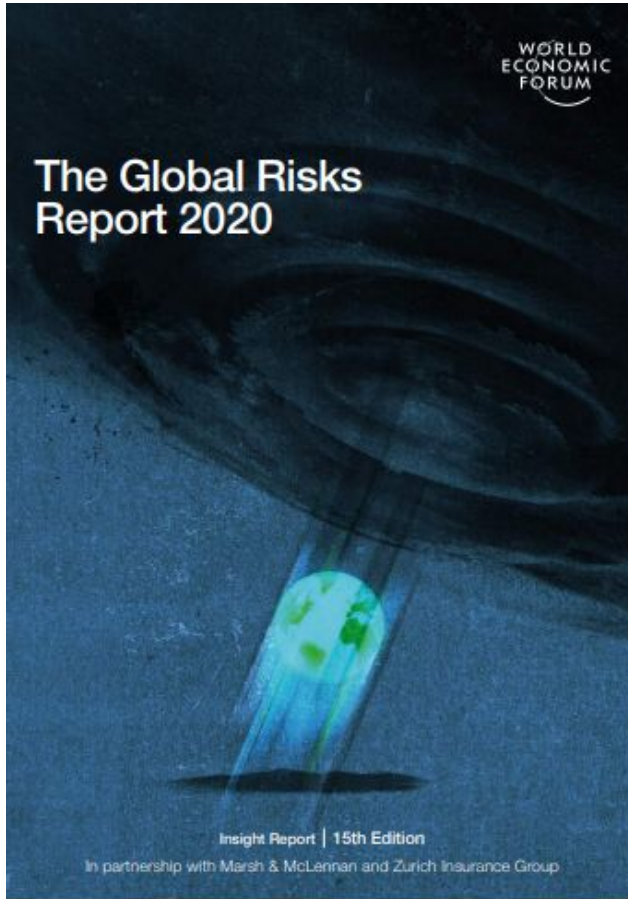
Estadística...



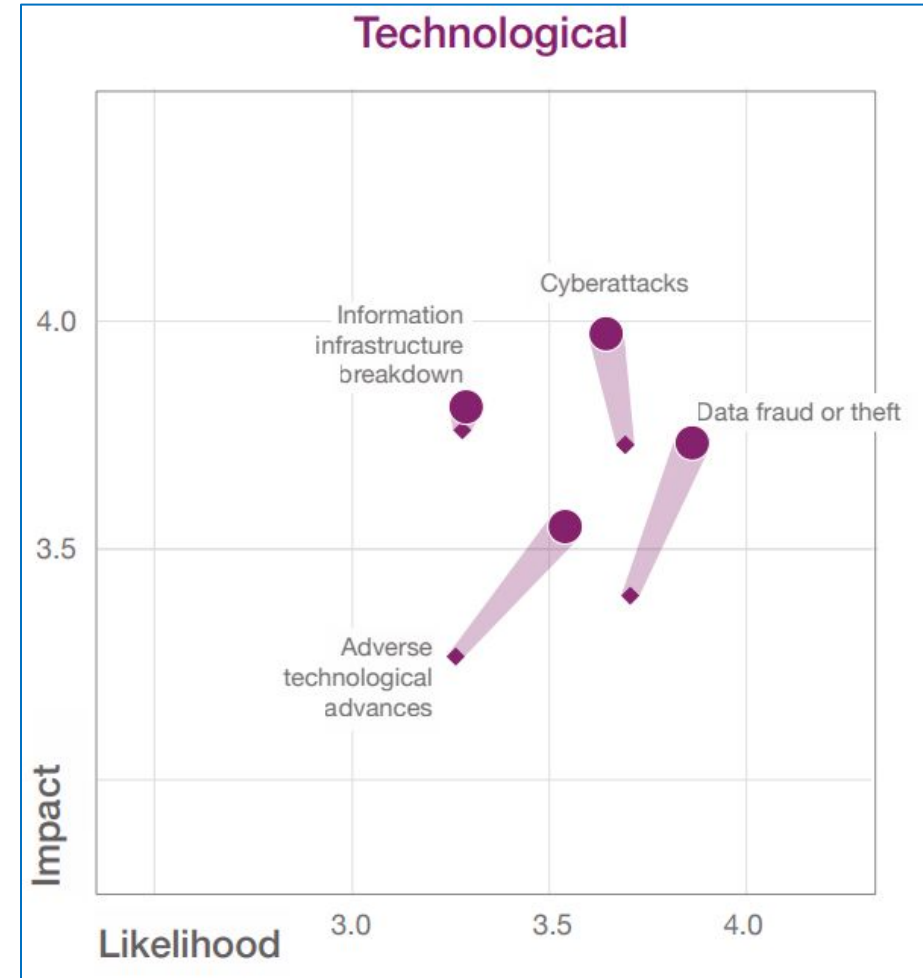
□ 4,574,150,134

Fuente: Internet World Stats

¿Qué hay de los Riesgos?

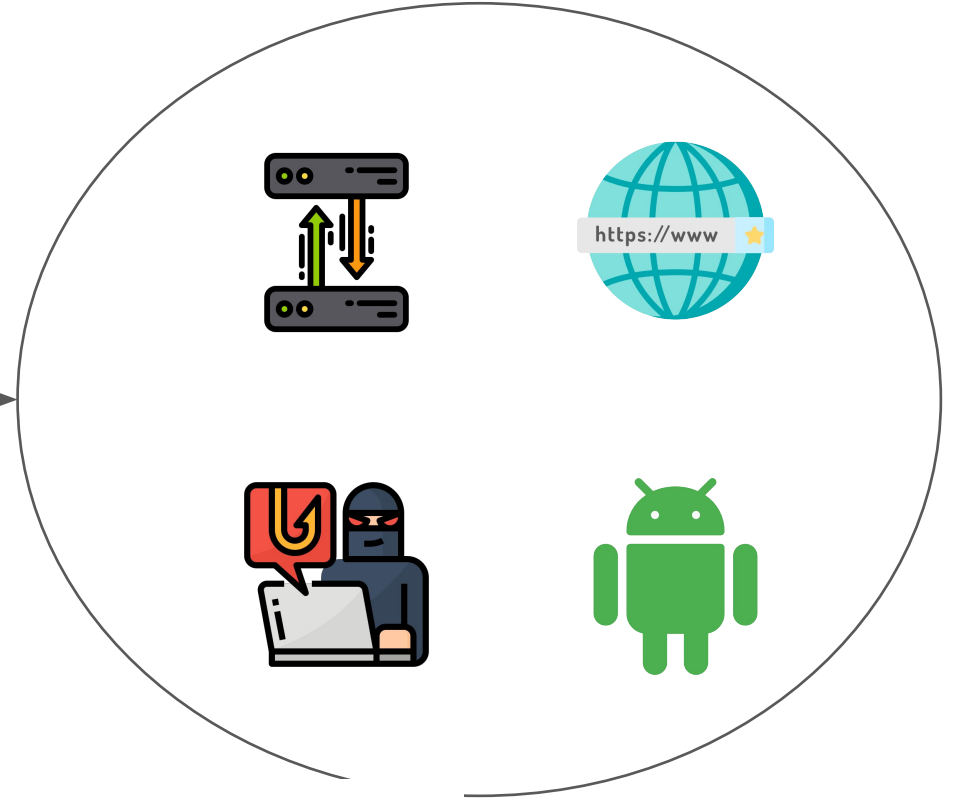
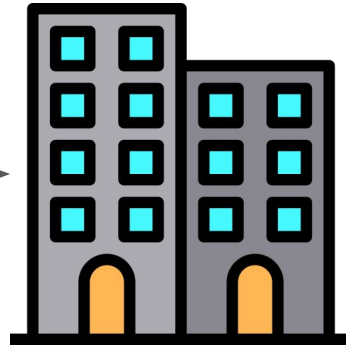


Fuente: World Economic Forum

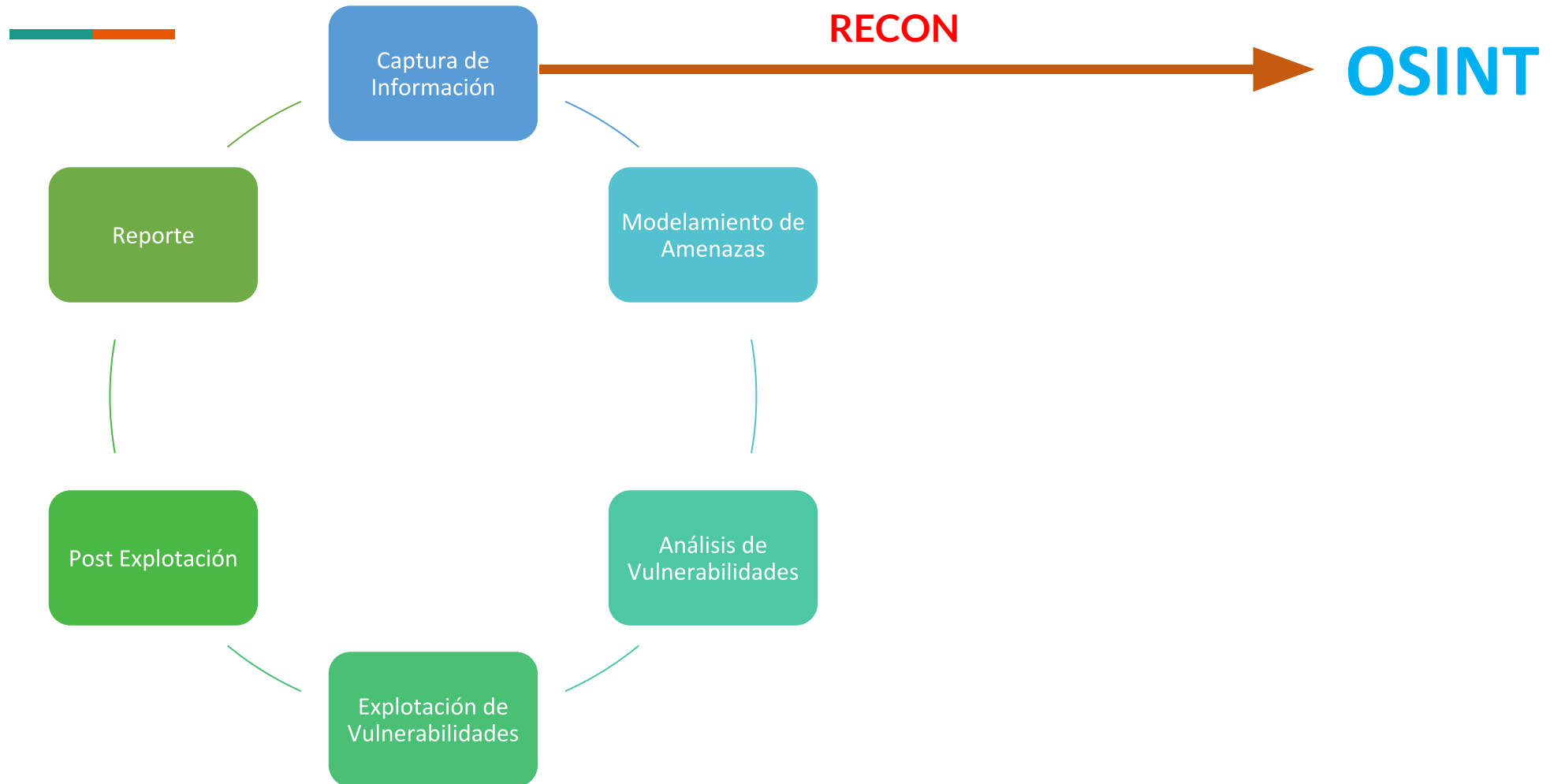


Test de Intrusión

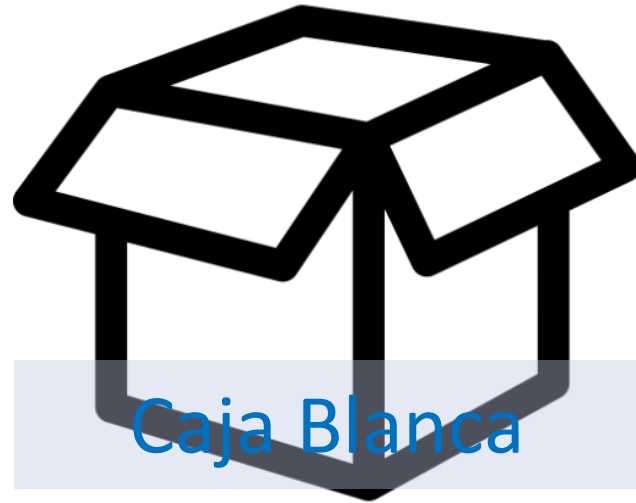
hackerone



Fases



Tipos



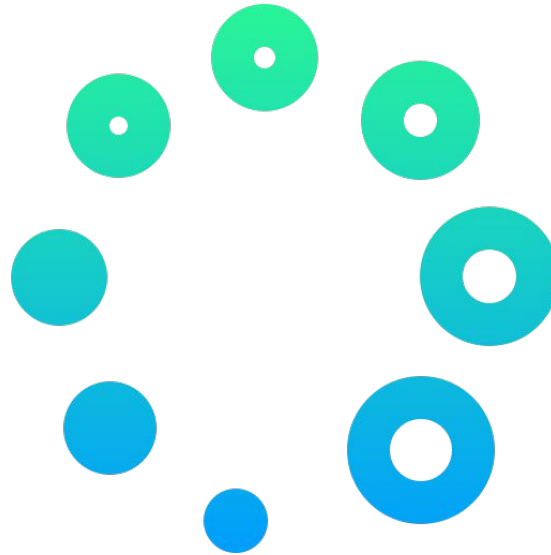
OSINT



OSINT



Pero...¿Qué es OSINT?



OSINT (Open Source Intelligence)



Sistema para recopilar información de **fuentes abiertas**.

Fuentes abiertas: Cualquier vía de la que podamos obtener datos y que sea accesible y pública.

Fuente: <https://ciberpatrulla.com/osint-framework/>

hunter

censys

SHODAN

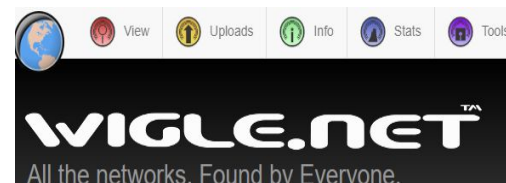


Google

crt.sh

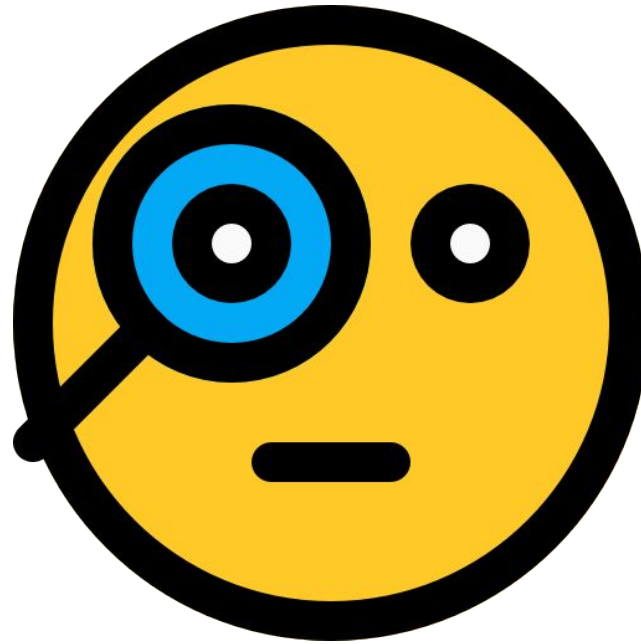


bing

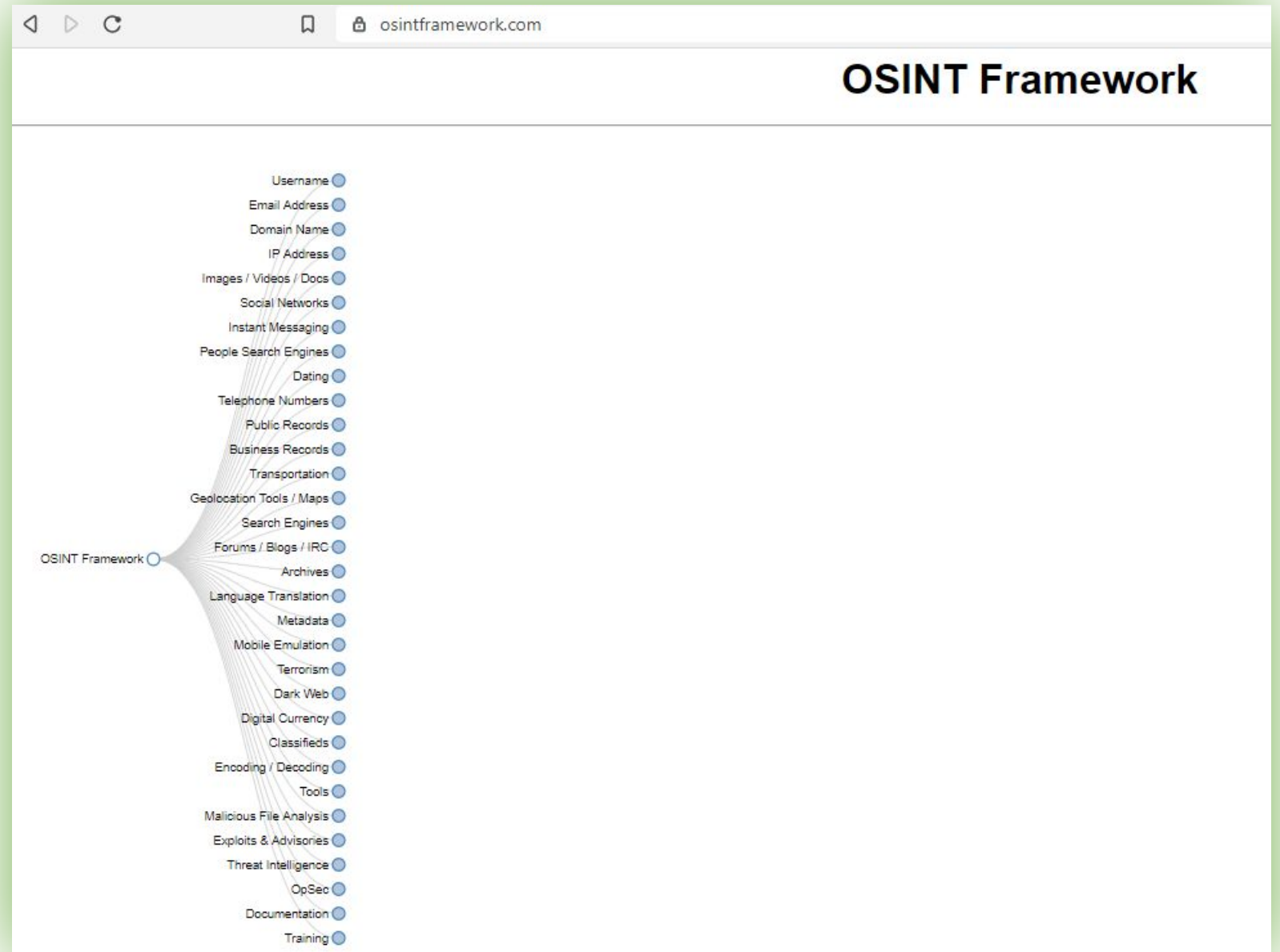


Yandex

Importancia de OSINT



Información Pública o Gratuita en Internet



Fuente: <https://osintframework.com/>

Un pequeño ejemplo...

The screenshot displays the Shodan search engine interface. The search bar contains the query `has_screenshot:true encrypted attention`. The results show 12 total results, with a map highlighting top countries. A table lists the top countries and their counts:

Country	Count
China	5
Panama	1
Norway	1
Sri Lanka	1
Korea, Republic of	1

A dark-themed overlay is present on the right side of the screen, displaying a warning message:

Attention!
All your data has been encrypted.
Contact by Email for data recovery.

Email : dataforward@bk.ru
Your ID : SB488A330IL

WARNING: If you don't contact in 72 hours, contact from a different email provider

OK

Otro pequeño ejemplo...

Fuente:

<https://blog.usejournal.com/how-recon-helped-samsung-protect-their-production-repositories-of-samsungtv-ecommerce-estores-4c51d6ec4fdd>

How “Recon” helped Samsung protect their production repositories of SamsungTv, eCommerce / eStores



Prateek Tiwari [Follow](#)

Oct 5, 2019 · 3 min read



Introduction

Recon never ends! You have to be creative and figure out a way in which you can extend your research and sharpen your skills. I believe that finding vulnerabilities in the bug bounty program is probably easy but the main trick lies in the reconnaissance phase.

After giving a lot of thought, a couple of things hit my mind, and I immediately decided to put a rough sketch altogether:

Caso Práctico

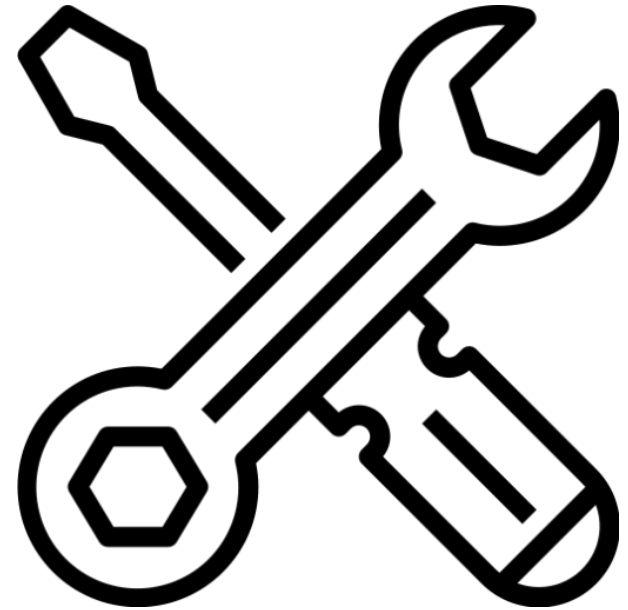


Target: <https://github.com/>

Objetivo: *Subdominios y Direcciones IP*

Tools

- ❑ <https://dnsdumpster.com/>
- ❑ <https://crt.sh/>
- ❑ Google Dorks (Google Hacking)
- ❑ <https://rapiddns.io/>
- ❑ <https://censys.io/>



dns recon & research, find & lookup dns records

Search >

Showing results for github.com

DNS Servers

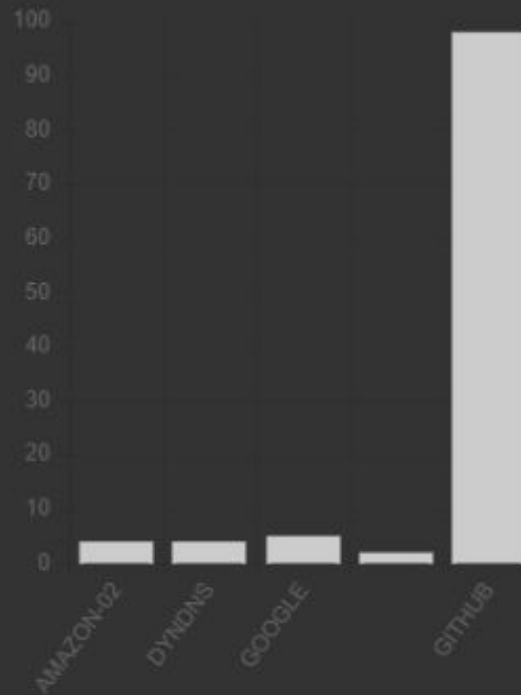
MX Records

TXT Records

Host (A) Records

Domain Map

Hosting (IP block owners)



GeoIP of Host Locations



Host Records (A) this data may not be current as it uses a static database (updated monthly)



ns1.github.com 📄 🌐 🛡️ 🏠	192.0.2.1	unknown
ns2.github.com 📄 🌐 🛡️ 🏠	192.0.2.2	unknown
glb-db52c2cf8be544.github.com 📄 🌐 🛡️ 🏠	140.82.113.21 lb-140-82-113-21-iad.github.com	GITHUB United States
lb-192-30-255-110-sea.github.com 📄 🌐 🛡️ 🏠 SSH: SSH-2.0-babeld-dae25663	192.30.255.110 lb-192-30-255-110-sea.github.com	GITHUB United States
lb-192-30-255-120-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.120 lb-192-30-255-120-sea.github.com	GITHUB United States
lb-192-30-255-170-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.170 lb-192-30-255-170-sea.github.com	GITHUB United States
lb-192-30-255-1-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.1 lb-192-30-255-1-sea.github.com	GITHUB United States
lb-192-30-255-111-sea.github.com 📄 🌐 🛡️ 🏠 SSH: SSH-2.0-babeld-6c2374e6	192.30.255.111 lb-192-30-255-111-sea.github.com	GITHUB United States
lb-192-30-255-121-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.121 lb-192-30-255-121-sea.github.com	GITHUB United States
lb-192-30-255-171-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.171 lb-192-30-255-171-sea.github.com	GITHUB United States
lb-192-30-255-2-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.2 lb-192-30-255-2-sea.github.com	GITHUB United States
lb-192-30-255-112-sea.github.com 📄 🌐 🛡️ 🏠 SSH: SSH-2.0-babeld-6c2374e6	192.30.255.112 lb-192-30-255-112-sea.github.com	GITHUB United States
lb-192-30-255-82-sea.github.com 📄 🌐 🛡️ 🏠 HTTP: GitHub.com	192.30.255.82 lb-192-30-255-82-sea.github.com	GITHUB United States
lb-192-30-254-192-sea.github.com 📄 🌐 🛡️ 🏠	192.30.254.192 out-9.smtp.github.com	GITHUB United States
lb-192-30-255-113-sea.github.com 📄 🌐 🛡️ 🏠	192.30.255.113 lb-192-30-255-113-sea.github.com	GITHUB United States

Criteria

Type: Identity Match: ILIKE Search: 'github.com'

Certificates

crt.sh ID	Logged At	Not Before	Not After	Matching Identities	Issuer Name
2773891113	2020-05-06	2020-05-06	2022-04-14	*.github.com github.com www.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2769519075	2020-05-05	2020-05-05	2022-05-10	github.com www.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2760641528	2020-05-02	2020-04-30	2022-05-25	*.review-lab.github.com review-lab.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2759289561	2020-05-01	2020-04-29	2022-05-06	*.pkg.github.com pkg.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2746573879	2020-04-30	2020-04-30	2022-05-25	*.review-lab.github.com review-lab.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2745199221	2020-04-29	2020-04-29	2022-05-06	*.pkg.github.com pkg.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2728931574	2020-04-24	2019-11-12	2021-11-16	api.security.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2699871765	2020-04-19	2020-04-19	2021-04-20	f.cloud.github.com	C=BE, O=GlobalSign nv-sa, CN=GlobalSign CloudSSL CA - SHA256 - G3
2723918456	2020-04-18	2020-04-16	2022-05-11	visualstudio.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2697361364	2020-04-16	2020-04-16	2022-05-11	visualstudio.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2697288179	2020-04-16	2020-04-16	2022-04-21	render-lab.github.com www.render-lab.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2697287229	2020-04-16	2020-04-16	2022-04-21	render-lab.github.com www.render-lab.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2696241381	2020-04-15	2020-04-15	2022-04-20	*.codespaces-ppe.github.com codespaces-ppe.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2696237324	2020-04-15	2020-04-15	2022-04-20	*.codespaces.github.com codespaces.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2696237301	2020-04-15	2020-04-15	2022-04-20	*.codespaces-dev.github.com codespaces-dev.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2685467601	2020-04-09	2020-04-07	2022-04-28	lab.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2684713828	2020-04-09	2020-04-07	2022-04-12	*.github.com github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2680786314	2020-04-08	2020-04-08	2022-04-13	*.workspaces-dev.github.com workspaces-dev.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2680783329	2020-04-08	2020-04-08	2022-04-13	*.workspaces.github.com workspaces.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2680780222	2020-04-08	2020-04-08	2022-04-13	*.workspaces-ppe.github.com workspaces-ppe.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2678164682	2020-04-07	2020-04-07	2022-04-28	lab.github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA
2677444153	2020-04-07	2020-04-07	2022-04-12	*.github.com github.com	C=US, O=DigiCert Inc, OU=www.digicert.com, CN=DigiCert SHA2 High Assurance Server CA



rapiddns.io/subdomain/github.com#result

RapidDNS

[Home](#)

[Same IP Website](#)

[Subdomain](#)

Subdomain

You can query all subdomains of the root domain. Enjoy it!

github.com

Query

Examples

1

[Youtube.Com](#)

[Twitter.Com](#)

[Shopify.Com](#)

[Hackerone.Com](#)



github.com

Total: 70498

Export CSV

< 1 2 3 4 5 6 7 ... 100 >

If your result is greater than 10,000. You can send me an email(skyj96455@gmail.com) and I will export it for you. In the future, it will develop and export more than 10,000 functions.

#	Domain	Address	Type
1	1602.github.com	github.github.io	CNAME
2	0x0800.github.com	github.github.io	CNAME
3	02.github.com	github.github.io	CNAME
4	003.github.com	github.github.io	CNAME
5	006.github.com	github.github.io	CNAME
6	0.github.com	github.github.io	CNAME
7	162.github.com	github.github.io	CNAME
8	163.github.com	github.github.io	CNAME



site:*.github.com



Buscar con Google

Me siento con suerte

Ofrecido por Google en: [Español \(Latinoamérica\)](#)



site:*.github.com



Todo

Imágenes

Noticias

Maps

Más

Preferencias

Herramientas

Cerca de 159,000,000 resultados (0.29 segundos)

Anuncio de Google

Probar Google Search Console

www.google.com/webmasters/

¿Eres dueño de *.github.com? Obtén datos de clasificación e índice de Google.

shop.github.com Traducir esta página

GitHub Shop | Awesome GitHub T-shirts and other cool swag

GitHub stickers, T-shirts, mugs, glasses, and oh my! Looking for the coolest official GitHub shirts and gear? Look no further because you have found it.

pages.github.com Traducir esta página

GitHub Pages | Websites for you and your projects, hosted ...

Websites for you and your projects, hosted directly from your GitHub repository. Just edit, push, and your changes are live.

resources.github.com Traducir esta página

GitHub Resources: Home

From setup to optimization, learn how to use GitHub to get the job done.

education.github.com Traducir esta página

GitHub Education: Engaged students are the result of using ...

Access the best real-world tools, learning events, and training to shape the next generation of software development.

Más Google Dorks :V



exploit-db.com/google-hacking-database

EXPLOIT DATABASE

Google Hacking Database

Show 15 ▼

Date Added ⚙ Dork

2020-05-06	intitle:"index of" "secrets.py"
2020-05-06	inurl:"wp-content/plugins/learnpress"
2020-05-06	intitle:"index of" "test/storage/framework/sessions/"
2020-05-06	intitle:"index of" "google-api-private-key.json"
2020-05-06	intitle:"index of" "security.json"
2020-05-06	intitle:"index of" "auth.asc"
2020-05-06	inurl:userportal/webpages/myaccount/login.jsp
2020-05-06	intitle:"index of" "debian-security.log"
2020-05-06	intitle:"index of" "backup.js"
2020-05-06	intitle:"index of" "symfony/config"
2020-05-06	intitle:"index of" "oauth-credentials.json"
2020-05-06	intitle:"index of" "local.json"
2020-05-06	inurl:/wp-content/themes/fruitful/
2020-05-06	inurl:/wp-content/themes/traveler/



Q Certificates

github.com

Results Report

Quick Filters

For all fields, see [Data Definitions](#)

Tag:

1,389 Expired
908 Leaf
897 CT
883 Google CT

More

Issuer:

583 txkj
309 GlobalSign nv-sa
271 DigiCert Inc
203 Let's Encrypt
115 Zalando SE

More

Certificates

Page: 1/78 Results: 1,929 Time: 410ms

OU=Domain Control Validated, CN=wimi1-github.com

Go Daddy Secure Certificate Authority - G2
2019-09-24 – 2020-09-24
wimi1-github.com, www.wimi1-github.com

CN=cdn-github.com

cPanel, Inc. Certification Authority
2020-03-06 – 2020-06-04
cdn-github.com, cpanel.cdn-github.com, mail.cdn-github.com, webdisk.cdn-github.com, ...

C=US, ST=California, L=San Francisco, O=GitHub, Inc., CN=import2.github.com

DigiCert SHA2 High Assurance Server CA
2019-09-30 – 2020-10-07
import2.github.com, importer2.github.com, porter2.github.com
parsed.names: import2.github.com

CN=cdn-github.com

cPanel, Inc. Certification Authority
2020-03-06 – 2020-06-04

\$ # Y la línea de comandos [¿?]



OWASP Amass

```
kali@kali:~$ amass me/kali/Documents/tools/spiky-spammer/
```



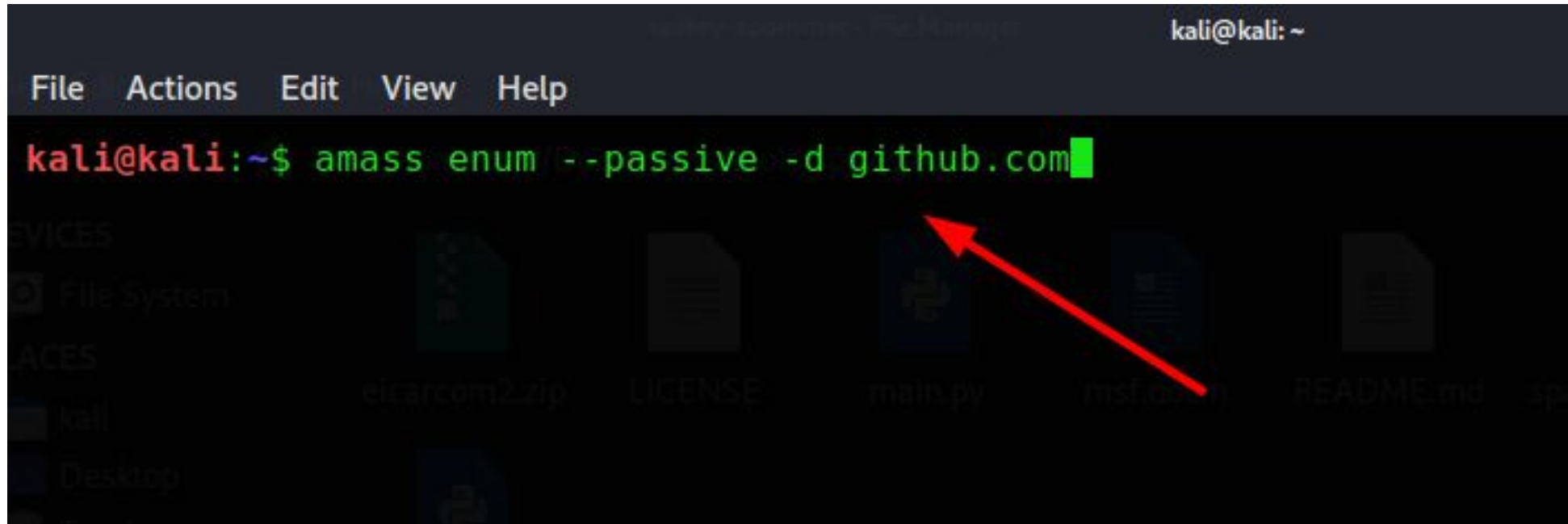
```
v3.5.4
OWASP Amass Project - @owaspamass
In-depth Attack Surface Mapping and Asset Discovery
```

-passive

A purely passive mode of execution

amass enum --passive -d example.com

OWASP Amass




```
kali@kali: ~  
File Actions Edit View Help  
kali@kali:~$ amass enum --passive -d github.com
```


OWASP Amass

```
kali@kali: ~  
File Actions Edit View Help  
zxl20zxl.github.com  
qlack.github.com  
kimoxstudio.github.com  
ashwin-droid.github.com  
www.github.github.com  
fabarea.github.com  
ljl20011223.github.com  
chaimleib.github.com  
buker.github.com  
orl628.github.com  
lego37yoon.github.com  
benjibow.github.com  
wwj718.github.com  
acidsound.github.com  
ipld-lb3-prd.iad.github.com  
loot.github.com  
sin-region.github.com  
emoji.github.com  
assaf.github.com  
ipla-lb3-prd.iad.github.com  
iplb-lb3-prd.iad.github.com  
iplc-lb3-prd.iad.github.com  
  
OWASP Amass v3.5.4 https://github.com/OWASP/Amass  
-----  
35922 names discovered - dns: 1, cert: 66, api: 35662, scrape: 193  
kali@kali:~$
```

Otras Tools



Tool	Subdomains	Valid Subdomains	Seconds	Subdomains/Seconds	Valid Subdomains/Seconds
Amass	489	489	1216.233	0.4021	0.4021
DNSRecon	15	15	0.672	22.3214	22.3214
dnssearch	54	54	661.255	0.0817	0.0817
Findomain	1639	270	5.892	278.1738	45.8248
Knock	46	46	171.905	0.2676	0.2676
SubBrute	88	78	11581.7	0.0076	0.0067
Subfinder	643	268	30.026	21.4148	8.9256
Sublist3r	625	280	251.249	2.4876	1.1144
Sudomy	0	0	10.61	0.0000	0.0000

Fuente:

<https://medium.com/@ricardoiramar/subdomain-enumeration-tools-evaluation-57d4ec02d69e>

Recomendaciones



Otras Recomendaciones...



Gracias! Hackers...

