Reconnaissance (Information Gathering)

Day1_info.md

by Nathan Hailu

Recall

LAST TIME TOPICS

Recall

1st CLASS about Ethical Hacking

by Nathan Hailu

Topics

- What is information Gathering/ Footprinting/
- Which information we gather
- Types of information gathering
- How we gather information
- Reverse image search
- Google hacking

Recon / Information Gathering / Footprint /

- Information Gathering is Collecting data about some network/host/system.
- Footprinting => Footstep + printing(logging)
- Most of the people find Footprinting boring, but it is a very important part of Ethical Hacking. Almost 85% of Hacking

Why do we need recon?

- Imagine, You are going to rob a bank… what do you do?
  - Know How much polices are there in the bank
  - Know the doors (way in and out)
  - Know if there is cctv
  - Know which person is the CEO
  - Know which time is Good for robbery
- To Get access on system 1st you have to know the system.
- **Knowing the system** will lead you to know if the system is vulnerable

Types of information gathering

- **Based on how we do the recon**
  1) **Active Footprinting**
  2) **Passive Footprinting**

1. Active Footprinting

This kind is when we try to gather information directly by contacting that person.

Example:

- When you go to the bank and ask for some informations.
- Chatting with person on social media to know about them.

Doing Active Footprinting without permission is ILLEGAL!!

2. Passive Footprinting

- This kind of recon is when you gather informations from another person,3rd party or by checking public sources.
- Example:
  - To know the bank working time i can see the posted texts.
  - To know someone name by reading the username.

What type of information do you gather?

- We gather information for different things
  a. Host
     - Websites
     - Computers
     - Smart Phone
  b. Network
     - Home Network
     - Companie networks
  c. Person/Organization
  d. Application

How do we gather information?

- Gathering info is classified as we saw early.
- There for the techniques and methods we use can be little different.
- Let us see 1 by one

A. Websites

- The informations we gather about a websites are
  - IP Addresses
  - Development frameworks
    - Technologies used and versions
  - Name
  - DNS informations
  - Subdomains, Assets, Contents

To get ip

- To get ip address of some website:
  - Active recon
    - ping <website link>
    - nslookup <website link>
    - host <website link>
  - Passive recon
    - www.nslookup.io

demo

```
rexder@HunterMachine ~> nslookup facebook.com
Server:         172.25.64.1
Address:        172.25.64.1#53

Non-authoritative answer:
Name:   facebook.com
Address: 157.240.201.35
Name:   facebook.com
Address: 2a03:2880:f145:82:face:b00c:0:25de
```

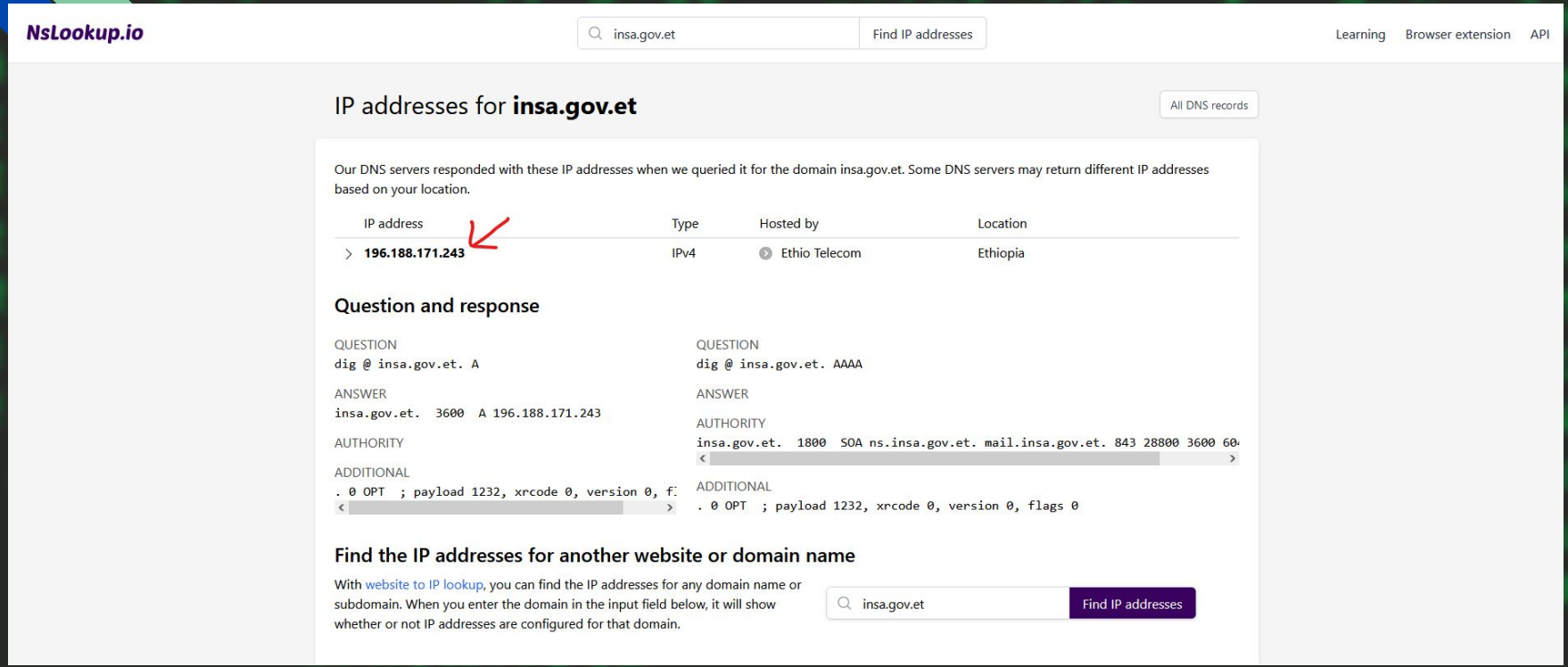
```
rexder@HunterMachine ~> ping insa.gov.et
PING insa.gov.et (196.188.171.243) 56(84) bytes of data.
^C
--- insa.gov.et ping statistics ---
6 packets transmitted, 0 received, 100% packet loss, time 5237ms
```

DON'T ADD THE HTTPS..

```
rexder@HunterMachine ~ [1]> ping facebook.com
PING facebook.com (157.240.201.35) 56(84) bytes of data.
64 bytes from edge-star-mini-shv-01-ams4.facebook.com (157.240.201.35): icmp_seq=1 ttl=55 t
64 bytes from edge-star-mini-shv-01-ams4.facebook.com (157.240.201.35): icmp_seq=2 ttl=55 t
64 bytes from edge-star-mini-shv-01-ams4.facebook.com (157.240.201.35): icmp_seq=3 ttl=55 t
64 bytes from edge-star-mini-shv-01-ams4.facebook.com (157.240.201.35): icmp_seq=4 ttl=55 t
64 bytes from edge-star-mini-shv-01-ams4.facebook.com (157.240.201.35): icmp_seq=5 ttl=55 t
64 bytes from edge-star-mini-shv-01-ams4.facebook.com (157.240.201.35): icmp_seq=6 ttl=55 t
64 bytes from edge-star-mini-shv-01-ams4.facebook
64 bytes from edge-star-mini-shv-01-ams4.facebook
64 bytes from edge-star-mini-shv-01-ams4.facebook
64 bytes from edge-star-mini-shv-01-ams4.facebook
64 bytes from edge-star-mini-shv-01-ams4.facebook
```

```
~
host google.com
google.com has address 216.58.208.238
google.com has IPv6 address 2a00:1450:4019:805::200e
google.com mail is handled by 10 smtp.google.com.
```

demo..


NsLookup.io
insa.gov.et
Find IP addresses
Learning
Browser extension
API
IP addresses for insa.gov.et
All DNS records
Our DNS servers responded with these IP addresses when we queried it for the domain insa.gov.et. Some DNS servers may return different IP addresses based on your location.
IP address
Type
Hosted by
Location
196.188.171.243
IPv4
Ethio Telecom
Ethiopia
Question and response
QUESTION
dig @ insa.gov.et. A
ANSWER
insa.gov.et. 3600 A 196.188.171.243
AUTHORITY
ADDITIONAL
. 0 OPT ; payload 1232, xrcode 0, version 0, f
QUESTION
dig @ insa.gov.et. AAAA
ANSWER
AUTHORITY
insa.gov.et. 1800 SOA ns.insa.gov.et. mail.insa.gov.et. 843 28800 3600 60
ADDITIONAL
. 0 OPT ; payload 1232, xrcode 0, version 0, flags 0
Find the IP addresses for another website or domain name
With website to IP lookup, you can find the IP addresses for any domain name or subdomain. When you enter the domain in the input field below, it will show whether or not IP addresses are configured for that domain.
insa.gov.et
Find IP addresses

To get development frameworks

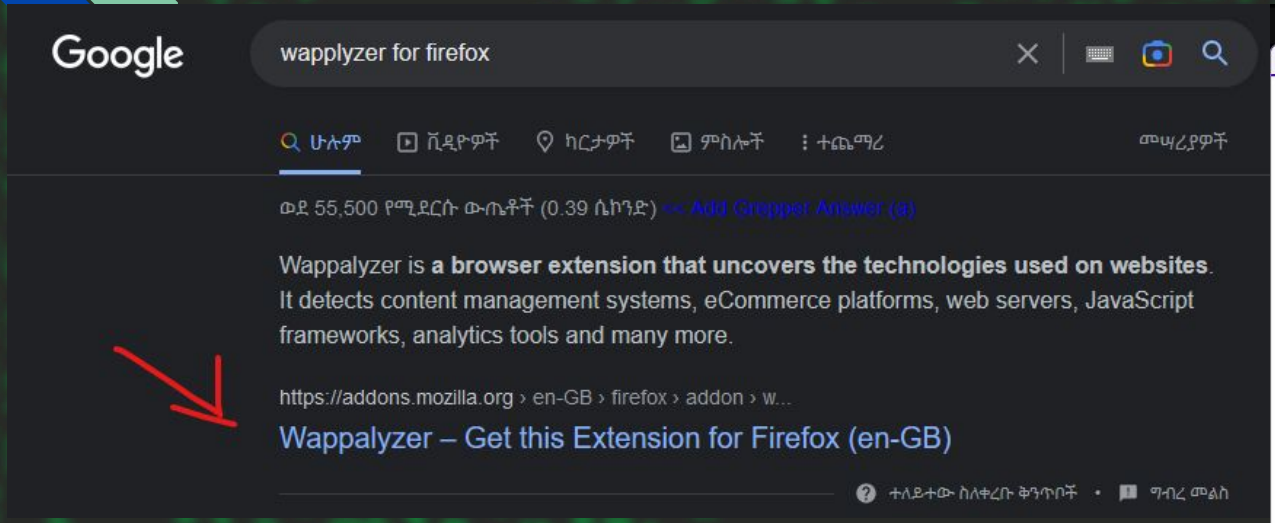
Use simple browser extension

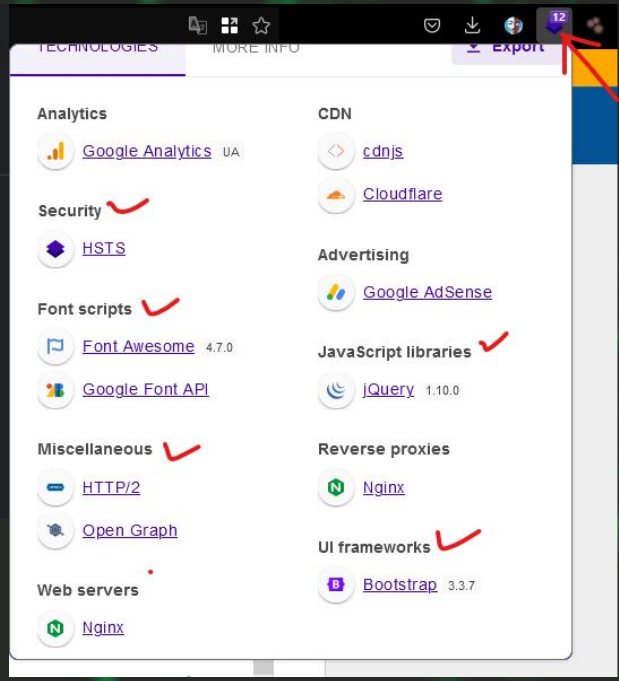
- Wapplyzer
- Builtwith

Terminal tool

- whatweb

demo


Google
wapplyzer for firefox
ሁሉም
ቪዲዮዎች
ካርታዎች
ምስሎች
ተጨማሪ
መሣሪያዎች
ወደ 55,500 የሚደርሱ ውጤቶች (0.39 ሴኮንድ)
Wappalyzer is a browser extension that uncovers the technologies used on websites. It detects content management systems, eCommerce platforms, web servers, JavaScript frameworks, analytics tools and many more.
https://addons.mozilla.org › en-GB › firefox › addon › w...
Wappalyzer – Get this Extension for Firefox (en-GB)


TECHNOLOGIES
MORE INFO
Export
Analytics
Google Analytics UA
Security
HSTS
Font scripts
Font Awesome 4.7.0
Google Font API
Miscellaneous
HTTP/2
Open Graph
Web servers
Nginx
CDN
cdnjs
Cloudflare
Advertising
Google AdSense
JavaScript libraries
jQuery 1.10.0
Reverse proxies
Nginx
UI frameworks
Bootstrap 3.3.7

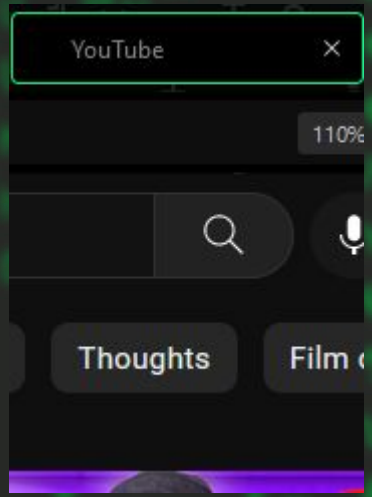
demo...

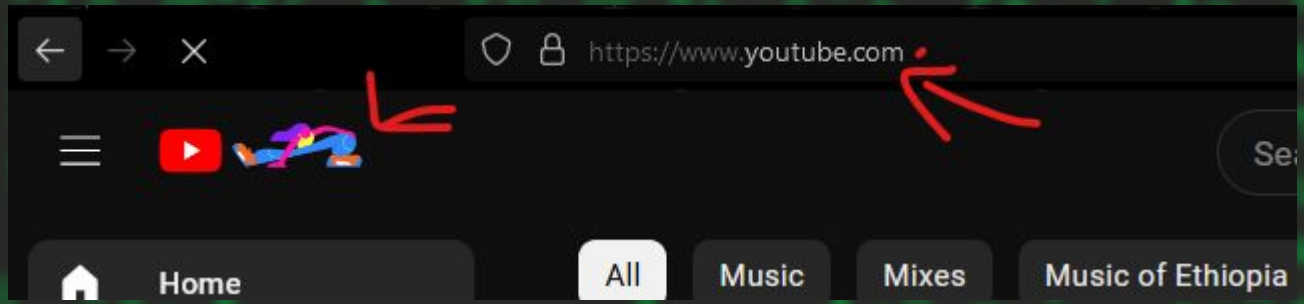
```
rexder@HunterMachine ~> sudo apt install whatweb
[sudo] password for rexder:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed
  golang-1.18-go golang-1.18-src pastebinit python3-
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  fonts-lato libgmp-dev libgmp10 libgmpxx4ldbl libru
  ruby-net-telnet ruby-public-suffix ruby-rchardet r
```

```
rexder@HunterMachine ~> whatweb insa.gov.et
http://insa.gov.et [301 Moved Permanently] Apache[2.4.41], HTTPServer[Ubuntu Linux][Apache/2.4.41 (Ubuntu
)], IP[196.188.171.243], RedirectLocation[https://insa.gov.et/], Title[301 Moved Permanently]
https://insa.gov.et/ [200 OK] Apache[2.4.41], Bootstrap, Cookies[COOKIE_SUPPORT,GUEST_LANGUAGE_ID,JSESSIO
NID], Email[contact@insa.gov.et], HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.41 (Ubuntu)], HttpOnly[COOKI
E_SUPPORT,GUEST_LANGUAGE_ID,JSESSIONID], IP[196.188.171.243], JQuery, Java, Liferay, Script[text/javascri
pt], Title[ሙግቢያ - INSA], UncommonHeaders[x-content-type-options,liferay-portal], X-Frame-Options[SAMEORIG
IN], X-XSS-Protection[1]
```

To get the name

- You can see the title of the website or texts inside the page also the url.





Details about domains

- For this you can use whois terminal +website tool
  - sudo apt install whois
  - whois
  - dig

```
dig google.com

; <<>> DiG 9.19.17-1-Debian <<>> google.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 23467
;; flags: qr rd ad; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0
;; WARNING: recursion requested but not available

;; QUESTION SECTION:
;google.com.                    IN      A

;; ANSWER SECTION:
google.com.             0       IN      A       216.58.208.238

;; Query time: 0 msec
;; SERVER: 172.24.64.1#53(172.24.64.1) (UDP)
;; WHEN: Mon Nov 06 19:29:46 EAT 2023
;; MSG SIZE  rcvd: 54
```

facebook.com

whois information

Whois | DNS Records | Diagnostics

cache expires in 12 hours, 52 minutes and 42 seconds

refresh

Registrar Info

Name	RegistrarSafe, LLC
Whois Server	whois.registrarsafe.com
Referral URL	https://www.registrarsafe.com
Status	clientDeleteProhibited https://www.icann.org/epp#clientDeleteProhibited clientTransferProhibited https://www.icann.org/epp#clientTransferProhibited clientUpdateProhibited https://www.icann.org/epp#clientUpdateProhibited serverDeleteProhibited https://www.icann.org/epp#serverDeleteProhibited serverTransferProhibited https://www.icann.org/epp#serverTransferProhibited serverUpdateProhibited https://www.icann.org/epp#serverUpdateProhibited

Important Dates

Expires On	2031-03-30
Registered On	1997-03-29
Updated On	2022-01-26

Name Servers

A.NS.FACEBOOK.COM	129.134.30.12
B.NS.FACEBOOK.COM	129.134.31.12
C.NS.FACEBOOK.COM	185.89.218.12
D.NS.FACEBOOK.COM	185.89.219.12

Similar Domains

faceb%c3%b6ok.com | faceb--k.com | faceb--kbasedbiz.com | faceb--l.com | faceb-activate.com | faceb-color.co.cc | faceb-design.com | faceb-error.com | faceb-junkie.com | faceb-ok.com | faceb-ook.com | faceb-renovation.com | faceb-server.com | faceb-survey.com | faceb.biz | faceb.br | faceb.cc | faceb.chat | faceb.co | faceb.co.il |

B. Computers/Phone

- The informations we gather about a Computers/Hosts are
  - IP Addresses
  - OS informations
  - HostName
  - MAC address
  - Open services or ports
- Detail on “Scanning and Enumeration”

C. Networks

- The informations we gather about a Networks are
  - IP Addresses
  - Architecture
  - Class and Type of Network
  - Subnets / VHOSTs
  - Hosts on that Network
  - Strength and security of that Network
- Detail on “Network Penetration testing”

D. Personal Informations

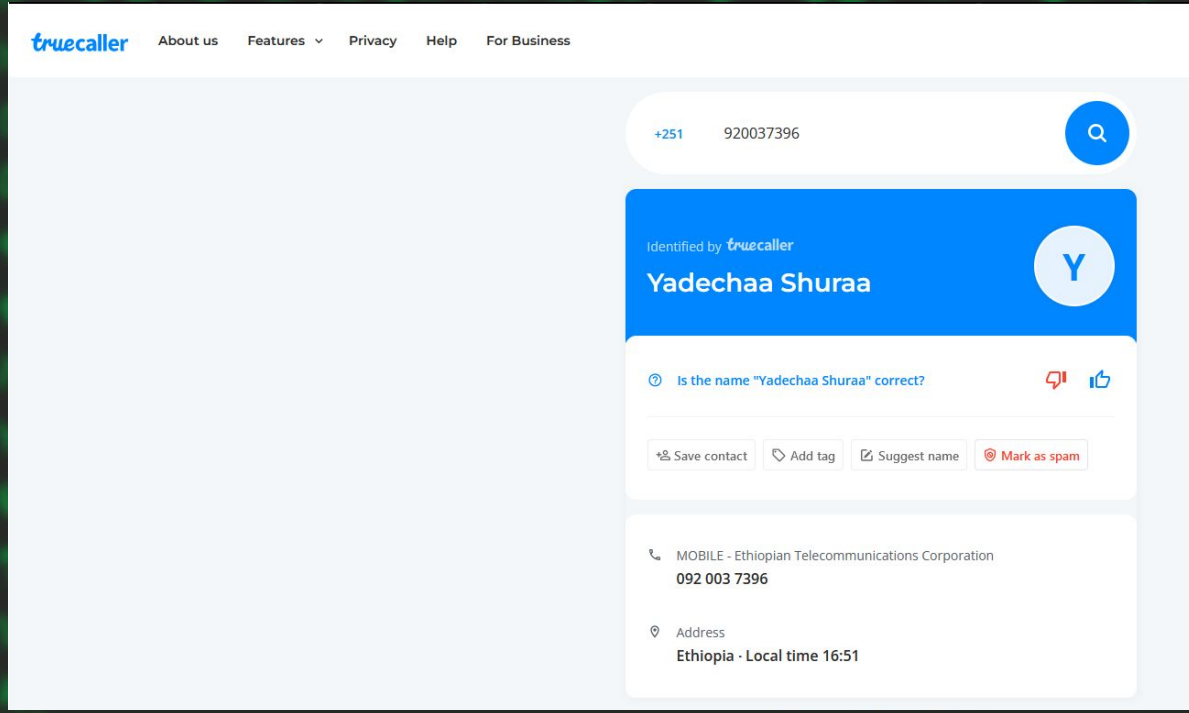
- The informations we gather about a Persons are
  - Full Name
  - Address
    - Physical Address
    - All Social Media Address
    - Phone address
  - What the person loves
  - Job
  - Friends
  - Status
  - skills
  - ...

OSINT - Open Source Intelligence

- Persons information can be gathered by active and passive.
- Gathering and Analyzing Different Informations Based on Public resource Passively is called OSINT (Open Source Intelligence).
- We can get lot of informations for system,user,host,... through passive activity.
- There are many methods, Lets See about Personal informations :...

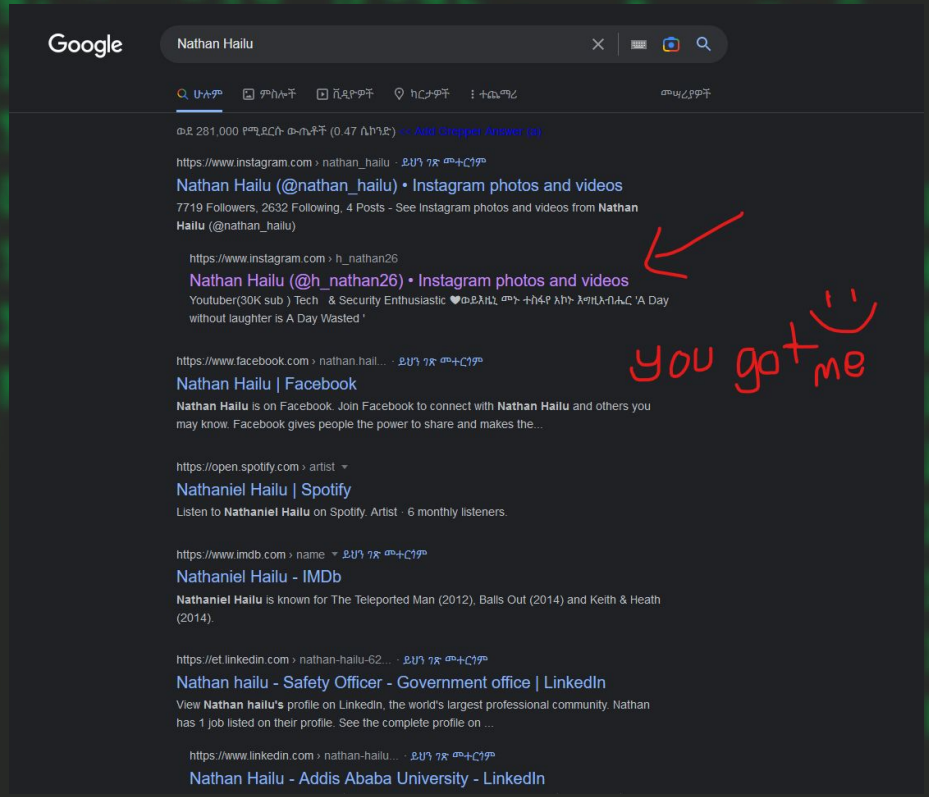
Getting Names by Phone number.

- For this purpose you can use https://www.truecaller.com/
- You can get the phone number from social media like telegram, some posted promotion, from websites.



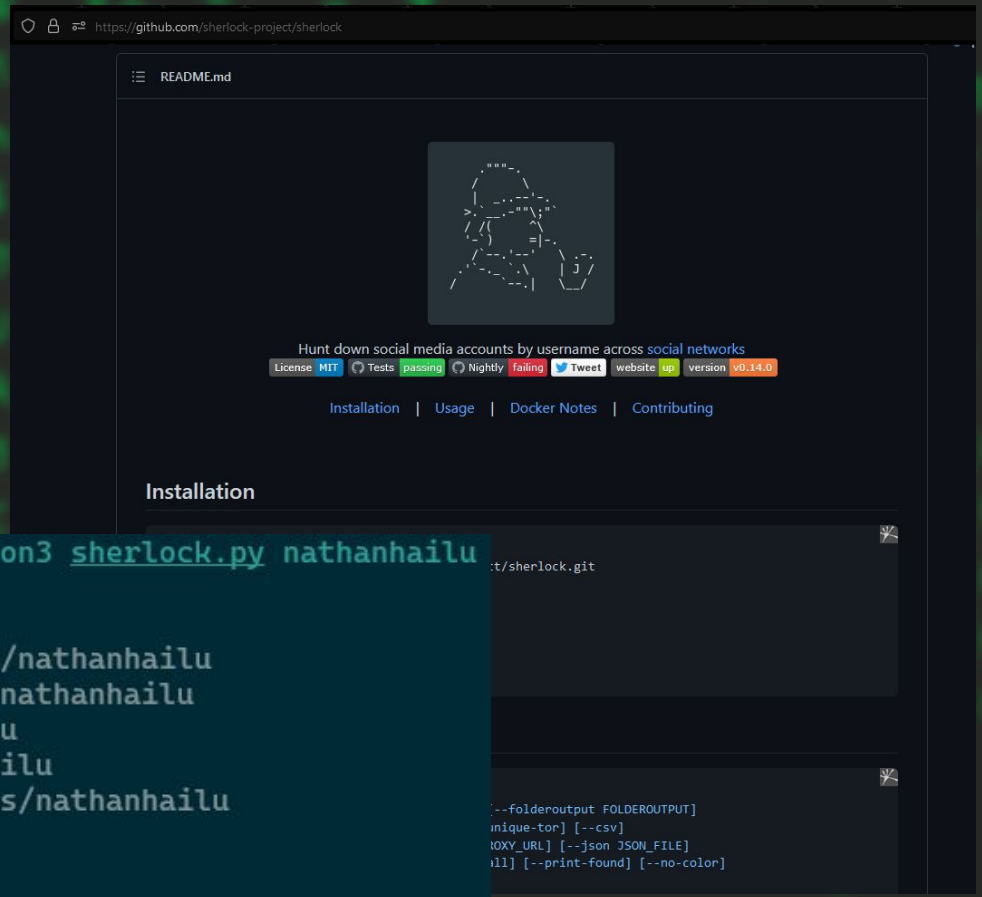
Getting social medias Addresses

- If you have Full name of a person, Just use search engines(google,bing,yahoo)



demo...

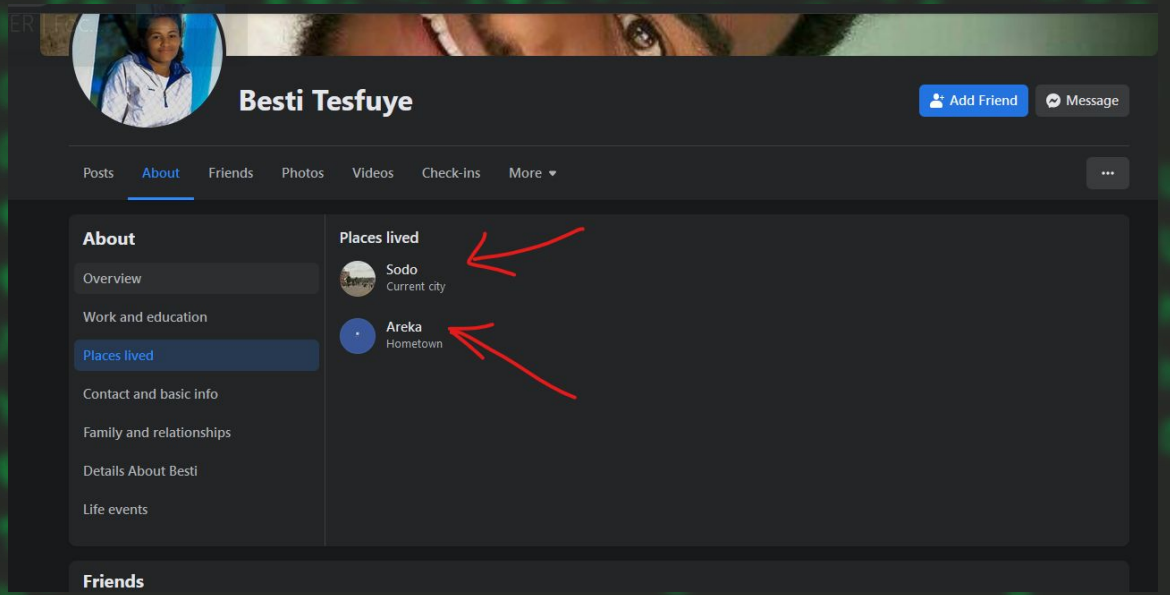
Also you can use tool called sherlock from github




```
rexder@HunterMachine ~/t/s/sherlock (master)> python3 sherlock.py nathanhailu
[*] Checking username nathanhailu on:

[+] Academia.edu: https://independent.academia.edu/nathanhailu
[+] Arduino: https://create.arduino.cc/projecthub/nathanhailu
[+] Chess: https://www.chess.com/member/nathanhailu
[+] Clubhouse: https://www.clubhouse.com/@nathanhailu
[+] Codecademy: https://www.codecademy.com/profiles/nathanhailu

[*] Results: 5

[!] End:  The processing has been finished.
```

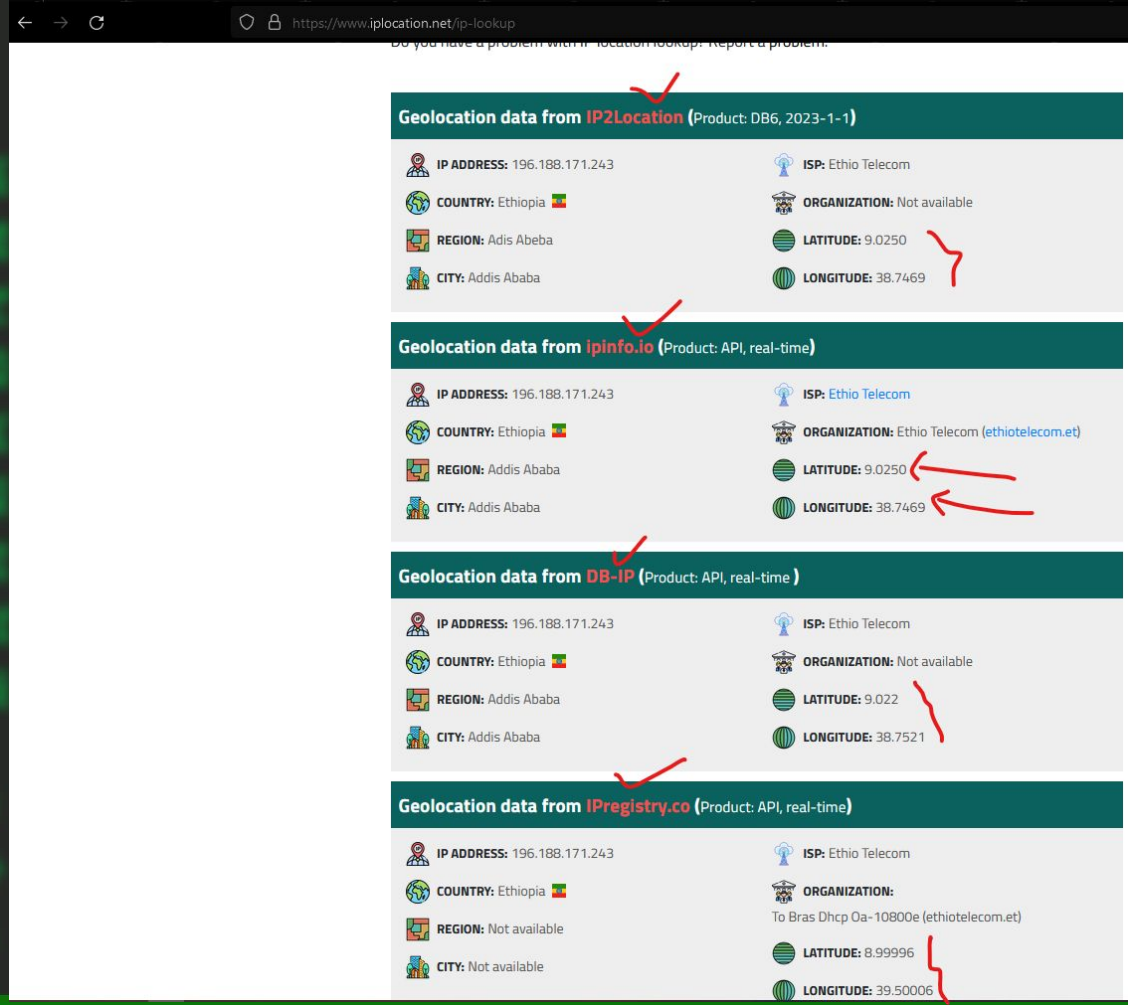
Getting Physical Addresses

- Peoples share there living place on social medias info page.
- Else there are many methods:
  - Sending links and when people access the link u can get the IP then you can just geolocate the place.



IP geolocation

- If you got the private ip address of someone you can insert it to https://www.iplocation.net
- The method of getting the IP might be tricky but detail we will learn on Social Engineering class



Knowing people's behaviour and Obsession

Peoples are being open on social medias, so we Security Testers have access about person behaviours and likes.

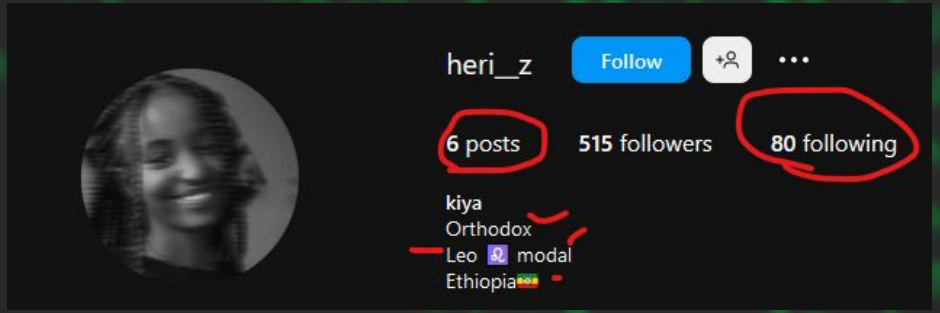
Example: instagram is the best place to get info about some user.

Also by seeing telegram Profiles you can get more information about their,religion status,mindset, ideology, family

By checking their followings/friends you can get more common pictures and events, etc....

THIS IS OSINT!!!🔥

Detail on Social engineering.



E. Applications/Softwares

- The informations we gather about a Applications are
  - What they are made up of
    - Which programming language used
    - Which framework used
  - Source codes
  - Their logic and Function
  - ...

Exercise 1

15-20min

1. What is the IP Address of https://moe.gov.et/
2. What is the IPv6 of https://google.com/
3. What is The Full Name of This phone number owner +251911842577
4. What is the job of user called “Zelalem moges”?
5. What is the Javascript framework of Youtube?

Reverse image search

Reverse image search is a technique of searching with images.

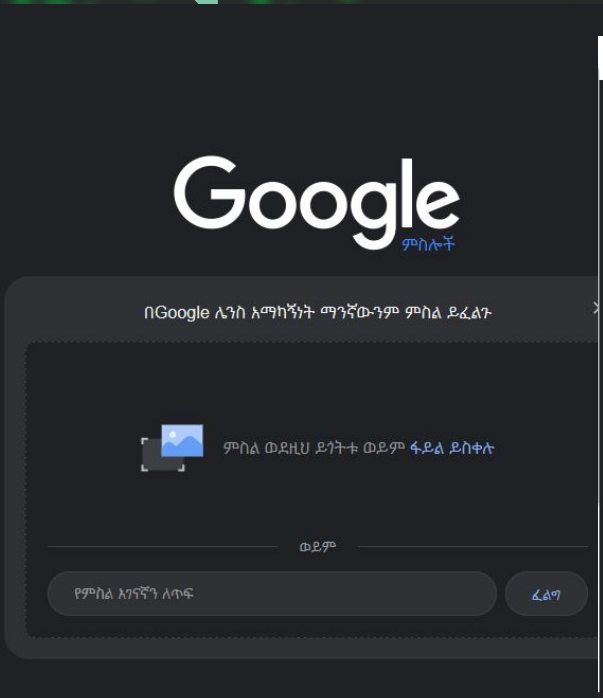
We all search with text but we can search with images to This can give as more information

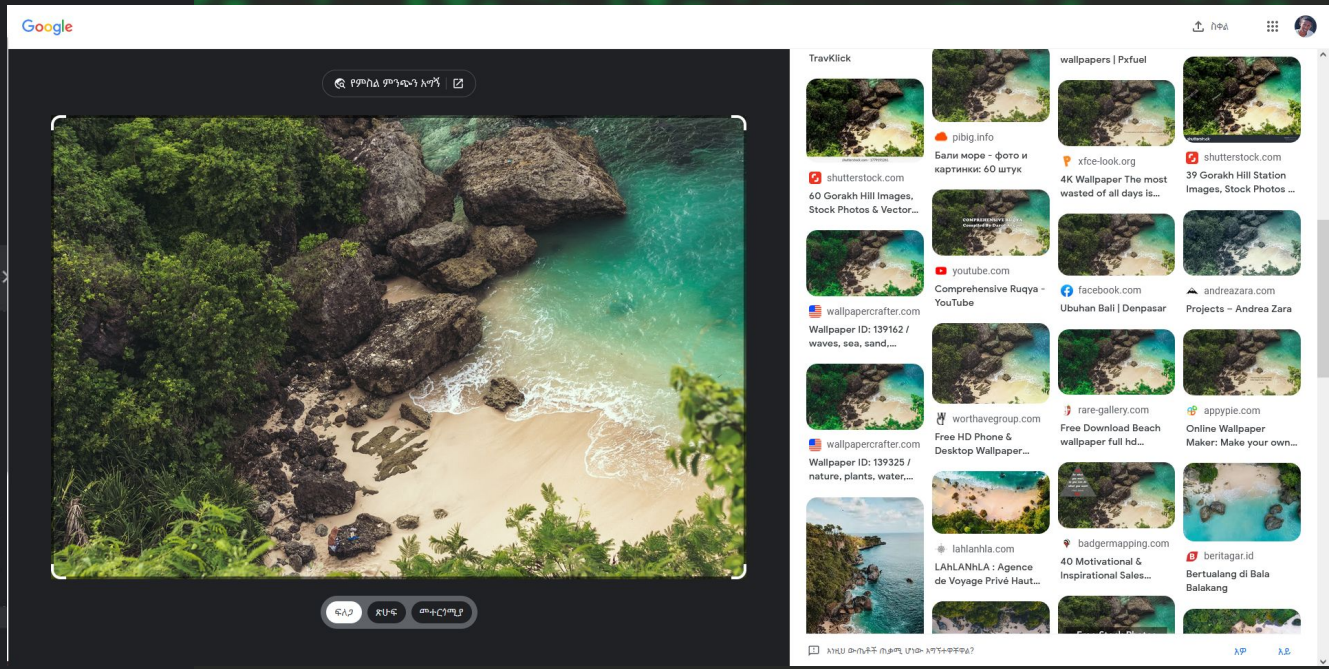
Ex: think like user posted a picture with a background of some area, if the user didnt talk about the place we can just search the image and the search engines will give as some similar photos where they are taken in same place(not 100% accurate)

We can use:

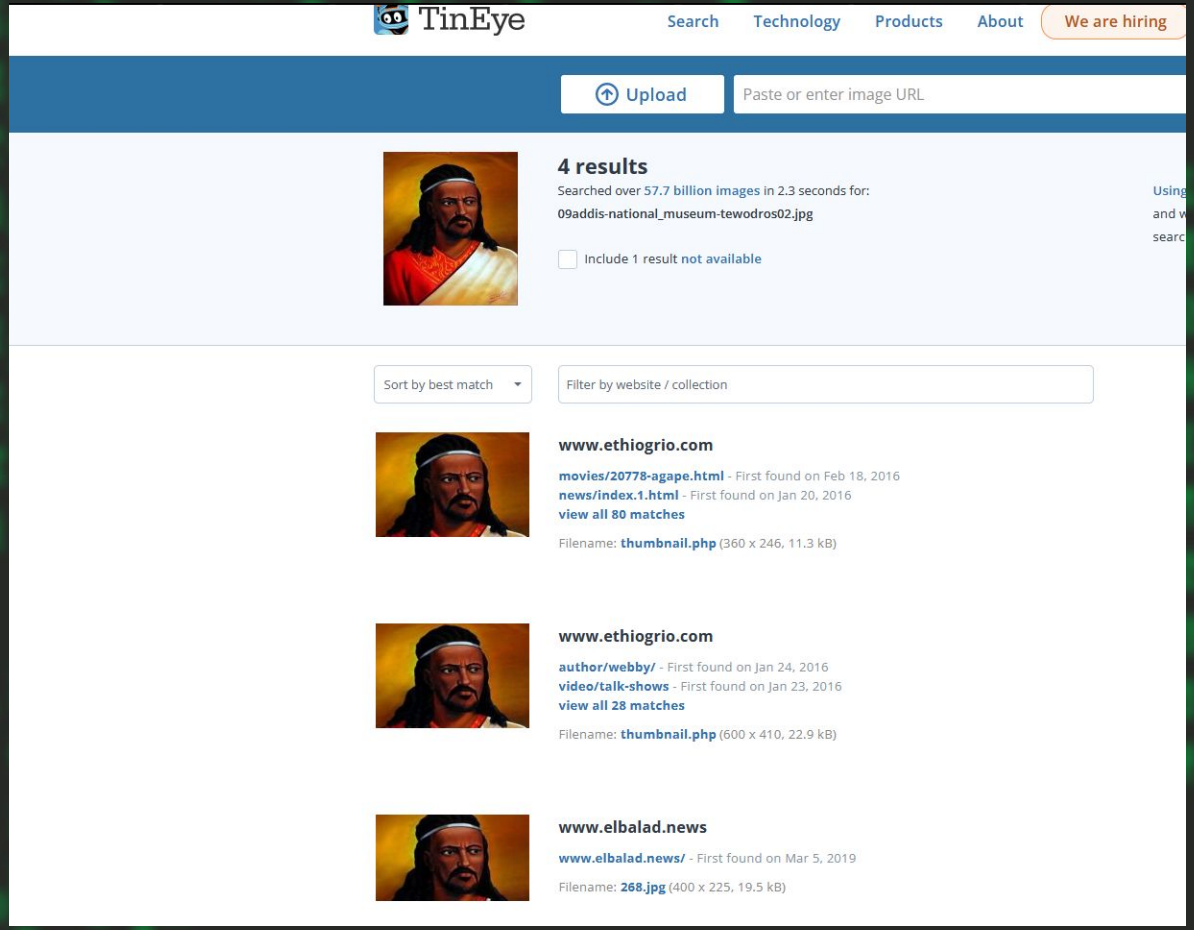
- https://tineye.com/
- https://www.labnol.org/reverse/
- https://images.google.com/

demo...


Google
ምስሎች
በGoogle ሌንስ አማክኝነት ማንኛውንም ምስል ይፈልጉ
ምስል ወደዚህ ይጎትቱ ወይም ፋይል ይስቀሉ
ወይም
የምስል አገናኙን ለጥፍ
ፈልግ


Google
የምስል ምንጩን አሳዎ
ፍለጋ
ጽሁፍ
መተርጎሚያ
TravKlick
shutterstock.com
60 Gorakh Hill Images, Stock Photos & Vector...
wallpapercrafter.com
Wallpaper ID: 139162 / waves, sea, sand,...
wallpapercrafter.com
Wallpaper ID: 139325 / nature, plants, water,...
pibig.info
Бали море - фото и картинки: 60 штук
youtube.com
Comprehensive Ruqya - YouTube
worthavegroup.com
Free HD Phone & Desktop Wallpaper...
lahlanhla.com
LAhLANhLA : Agence de Voyage Privé Haut...
wallpapers | Pxfuel
xfce-look.org
4K Wallpaper The most wasted of all days is...
facebook.com
Ubuhan Bali | Denpasar
rare-gallery.com
Free Download Beach wallpaper full hd...
badgermapping.com
40 Motivational & Inspirational Sales...
shutterstock.com
39 Gorakh Hill Station Images, Stock Photos ...
andreazara.com
Projects – Andrea Zara
appypie.com
Online Wallpaper Maker: Make your own...
beritagar.id
Bertualang di Bala Balakang

demo...


TinEye
Search
Technology
Products
About
We are hiring
Upload
Paste or enter image URL
4 results
Searched over 57.7 billion images in 2.3 seconds for:
09addis-national_museum-tewodros02.jpg
Include 1 result not available
Sort by best match
Filter by website / collection
www.ethiogrio.com
movies/20778-agape.html - First found on Feb 18, 2016
news/index.1.html - First found on Jan 20, 2016
view all 80 matches
Filename: thumbnail.php (360 x 246, 11.3 kB)
www.ethiogrio.com
author/webby/ - First found on Jan 24, 2016
video/talk-shows - First found on Jan 23, 2016
view all 28 matches
Filename: thumbnail.php (600 x 410, 22.9 kB)
www.elbalad.news
www.elbalad.news/ - First found on Mar 5, 2019
Filename: 268.jpg (400 x 225, 19.5 kB)

Google Dorking(Google Hacking)

- it's not hacking into Google servers!
- Google hacking is using different Google operators to effectively optimize search results.
- It also involves using Google to identify vulnerabilities in websites.
- Results are highly customizable.
- THIS IS THE MOST POWERFUL SKILL OF HACKER!

Basic operators

- For inclusion of something common (+)
  - Nathan Hailu +geeztech +ceo > don't add space between the sign and the word
- Terms you want to exclude (-)
  - Antivirus -software
  - Georgia -america -state
- Search for an exact term (“)
  - “How to eat food”
  - “Nathan Hailu” => what is the difference?

Cont...

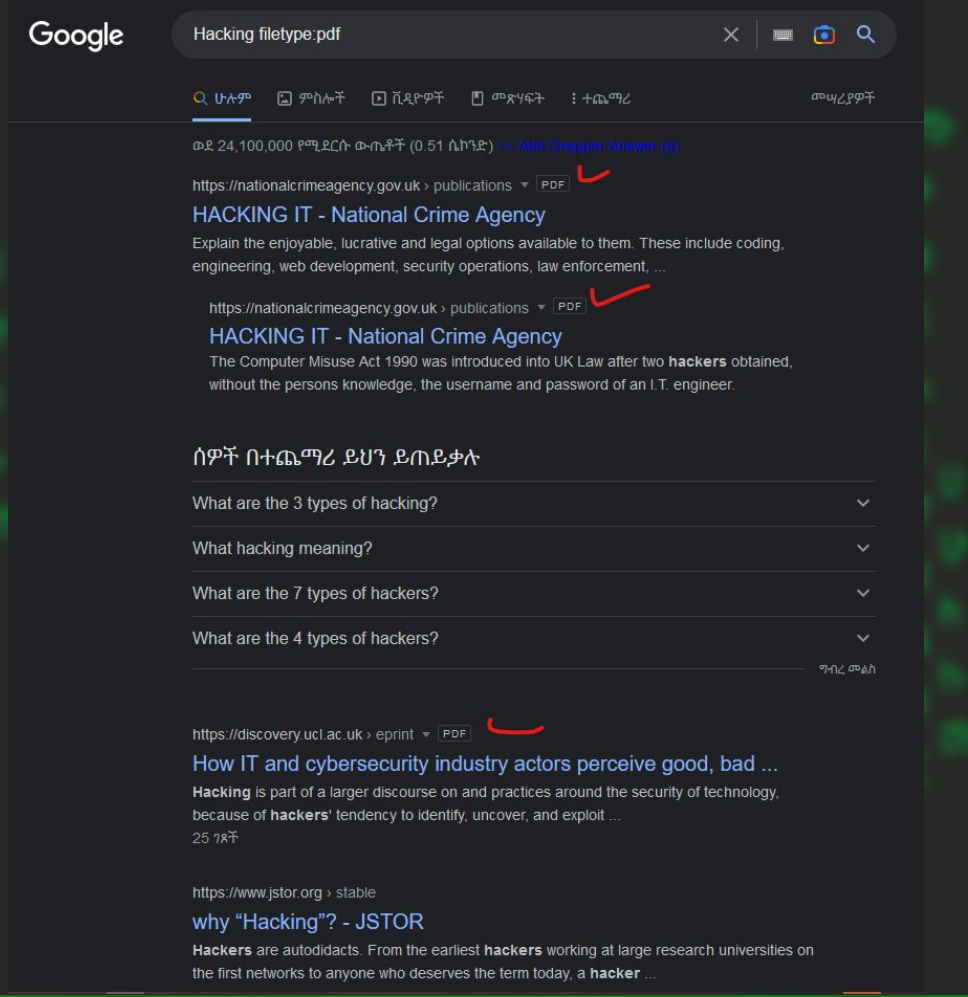
- (*) any word (wild card)
  - If you include * within a query, it tells Google to try to treat the star as a placeholder for any unknown term(s) and then find the best matches.
  - Estonia parliament voted on the * bill
- (|) boolean ‘OR’
  - “Nathan Hailu” | “Natan Hailu”

Advanced Operators

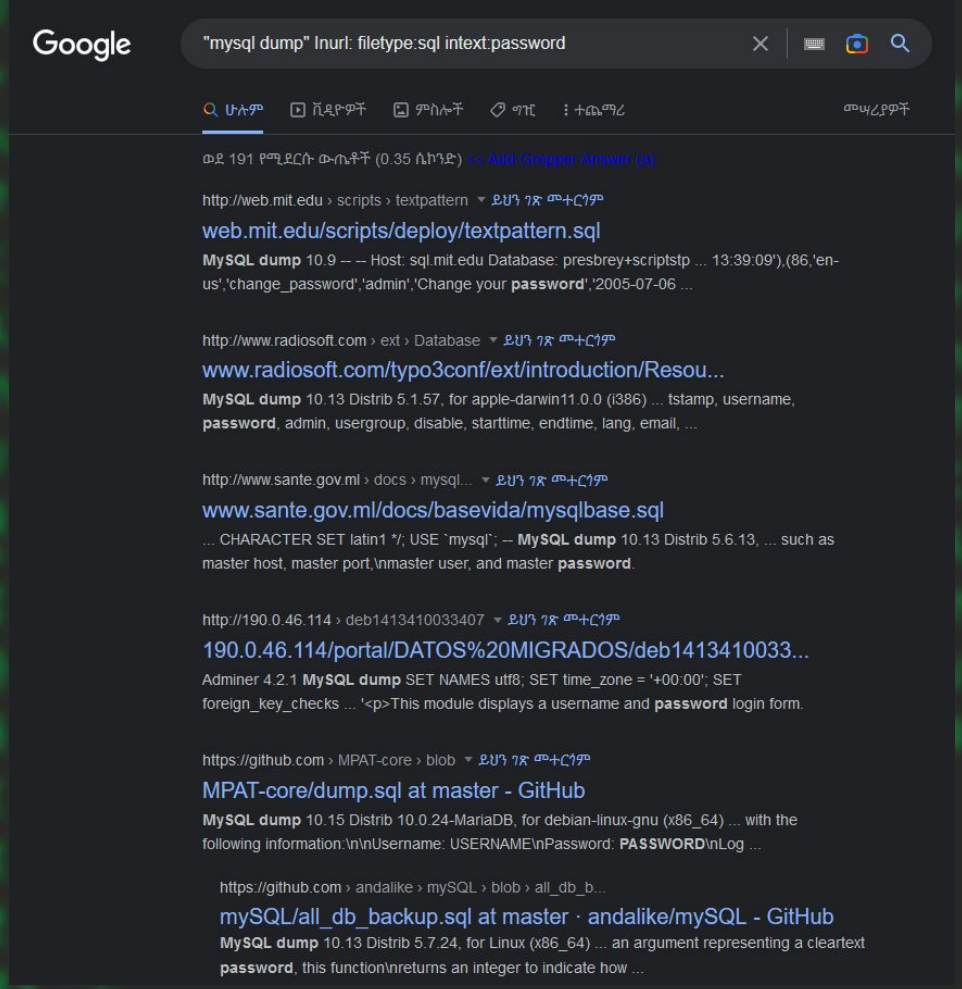
- These are Syntaxes used by Google.
  - intitle
    - Google returns results with the word/phrase found within the title of the page
      - **intitle**:index.of
      - **intitle**:”Hackers Bible”
  - inurl
    - Finds a specific term within the URL
      - **inurl**:view/index.shtml
  - filetype
    - Searches for a specific filetype
      - “Hacking” **filetype**:pdf
      - **filetype**:txt
  - Intext
    - Google returns links that contains Texts from that link
      - **intext**:”Hackers in Ethiopia”

Mixing Operators

- Inurl:securethiscompany.com intitle:index.of
- "mysql dump" Inurl: filetype:sql intext:password
- inurl:ftp "password" filetype:xls
- intitle:admin intitle:login



demo


Google
"mysql dump" Inurl: filetype:sql intext:password
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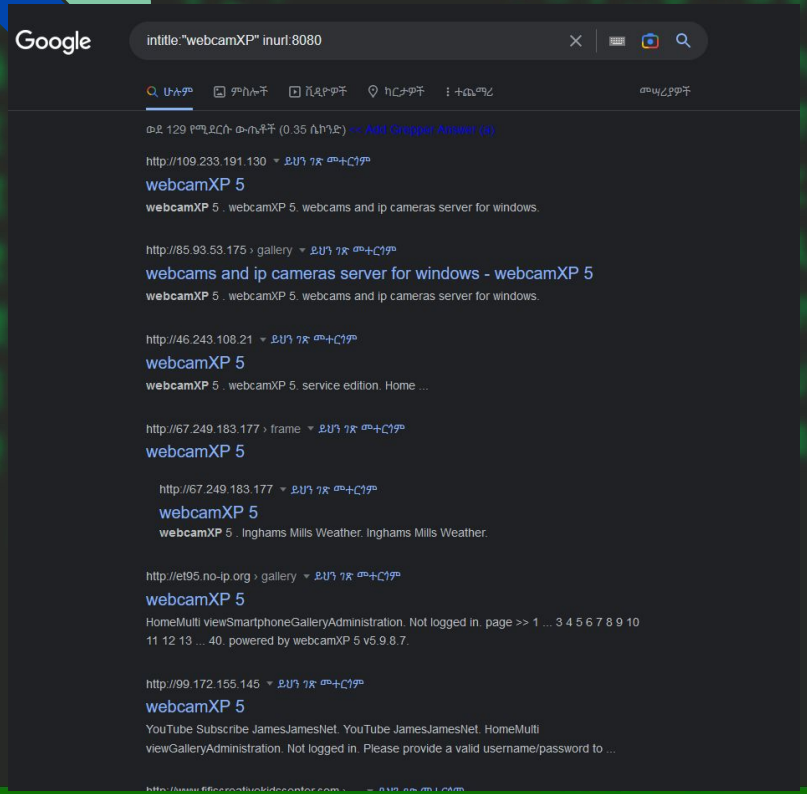
ውደ 191 የሚደርሱ ውጤቶች (0.35 ሴኮንድ) << Add Grepper Answer (s)
http://web.mit.edu › scripts › textpattern ይህን ገጽ ሞተርጎም
web.mit.edu/scripts/deploy/textpattern.sql
MySQL dump 10.9 -- -- Host: sql.mit.edu Database: presbrey+scriptstp ... 13:39:09'),(86,'en-us','change_password','admin','Change your password','2005-07-06 ...
http://www.radiosoft.com › ext › Database ይህን ገጽ ሞተርጎም
www.radiosoft.com/typo3conf/ext/introduction/Resou...
MySQL dump 10.13 Distrib 5.1.57, for apple-darwin11.0.0 (i386) ... tstamp, username, password, admin, usergroup, disable, starttime, endtime, lang, email, ...
http://www.sante.gov.ml › docs › mysql... ይህን ገጽ ሞተርጎም
www.sante.gov.ml/docs/basevida/mysqlbase.sql
... CHARACTER SET latin1 */; USE `mysql`; -- MySQL dump 10.13 Distrib 5.6.13, ... such as master host, master port,\nmaster user, and master password.
http://190.0.46.114 › deb1413410033407 ይህን ገጽ ሞተርጎም
190.0.46.114/portal/DATOS%20MIGRADOS/deb1413410033...
Adminer 4.2.1 MySQL dump SET NAMES utf8; SET time_zone = '+00:00'; SET foreign_key_checks ... '<p>This module displays a username and password login form.
https://github.com › MPAT-core › blob ይህን ገጽ ሞተርጎም
MPAT-core/dump.sql at master - GitHub
MySQL dump 10.15 Distrib 10.0.24-MariaDB, for debian-linux-gnu (x86_64) ... with the following information:\n\nUsername: USERNAME\nPassword: PASSWORD\nLog ...
https://github.com › andalike › mySQL › blob › all_db_b...
mySQL/all_db_backup.sql at master · andalike/mySQL - GitHub
MySQL dump 10.13 Distrib 5.7.24, for Linux (x86_64) ... an argument representing a cleartext password, this function\nreturns an integer to indicate how ...

demo


Google
intitle:"webcamXP" inurl:8080
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ውደ 129 የሚደርሱ ውጤቶች (0.35 ሴኮንድ)
http://109.233.191.130
webcamXP 5
webcamXP 5 . webcamXP 5. webcams and ip cameras server for windows.
http://85.93.53.175 › gallery
webcams and ip cameras server for windows - webcamXP 5
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http://46.243.108.21
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et95.no-ip.org:8080/gallery.html?page=8
WEBCAMXP 5
WEBCAMS AND IP CAMERAS SERVER FOR WINDOWS
En live,Direction Nord
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http://avrfrance.com
14/05/2017
14:21:02
Connect : 0
T° A jour en fonction du PC
Magny en Vexin (95)
Prévisions météo: ensoleillé
18.2 °C Temp. E
57 % Hum. E
9.5 °C P. de rosée
18.2 °C Temp au vent
15 °C Indice de chaleur
1022 hPa P.atmo.
dernière Pluie: 2 h, 36 min
0.0 l/m² Pluie/1h
1.0 l/m² Pluie/24h
1.448 mm Ev.Tr.
Captured on 14/05/2017 14:21:02 from source #1
9 of 15
POWERED BY WEBCAMXP 5 V5.9.8.7

Hackers Power

- Hackers do anything with these operators
- When they Got errors or any problems they use the operators and other.
- As Security tester, We can Also use them to optimize our Search also to Create A script to Do that.

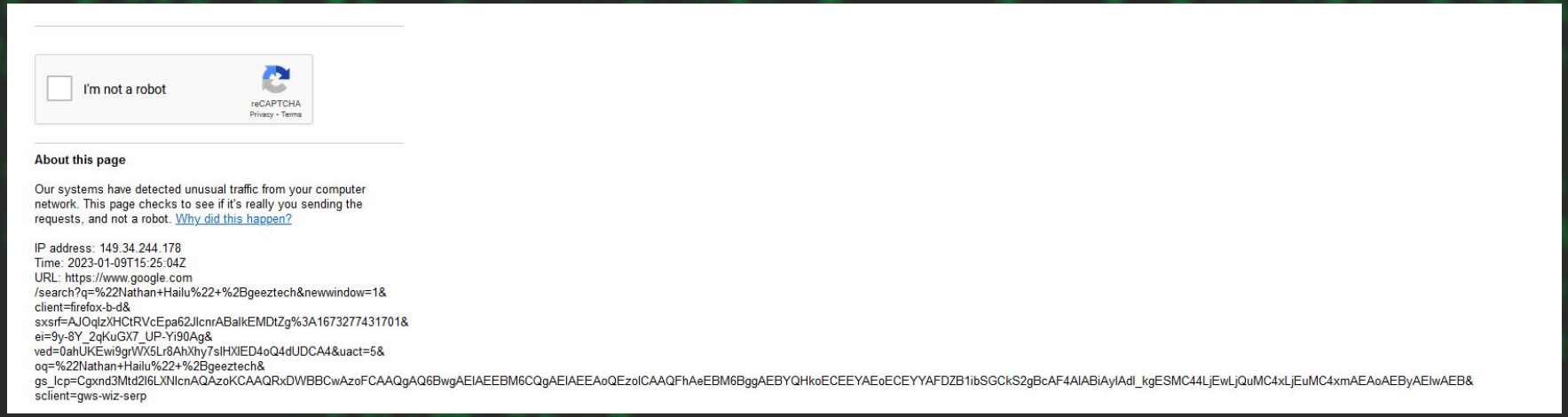
GHD - Google hacking Database

Date Added	Dork	Category	Author
2022-09-19	intext:"index of" ".sql"	Files Containing Juicy Info	Gopalsamy Rajendran
2022-09-19	intitle:"index of" inurl:superadmin	Files Containing Juicy Info	Mahedi Hassan
2022-09-19	intitle:"WAMPSERVER Homepage"	Files Containing Juicy Info	HackerFrenzy
2022-09-19	inurl: json beautifier online	Files Containing Juicy Info	Nyein Chan Aung
2022-09-19	intitle:"IIS Windows Server"	Files Containing Juicy Info	HackerFrenzy
2022-09-19	intitle:"index of" inurl:SUID	Files Containing Juicy Info	Mahedi Hassan
2022-09-19	intitle:"index of" intext:"Apache/2.2.3"	Files Containing Juicy Info	Wagner Farias
2022-08-18	inurl:"index.php?page=news.php"	Advisories and Vulnerabilities	Omar Shash
2022-08-18	inurl:/sym404/root	Files Containing Juicy Info	Numen Blog
2022-08-17	inurl:viewer/live/index.html	Various Online Devices	Palvinder Singh Secuneus
2022-08-17	intitle:Index of "/venv"	Sensitive Directories	Abhishek Singh
2022-08-17	intitle:"WEB SERVICE" "wan" "lan" "alarm"	Pages Containing Login Portals	Heverin Hacker
2022-08-17	allintitle:"Log on to MACH-ProWeb"	Pages Containing Login Portals	Under The Sea hacker
2022-08-17	intitle:"index of"|"access_token.json"	Files Containing Juicy Info	Leonardo Venegas
2022-08-17	inurl:"admin/default.aspx"	Pages Containing Login Portals	Payal Yedhu

Link: https://www.exploit-db.com/google-hacking-database

WARNING

If you do a lot of dorkings with same ip address, Google will block you for some hours, and shows you this. This is Because Google Want to Get rid of Bots/Scripts.



Exercise

1. Hey Mr. Hacker give the the pdf file of the “systems engineer” from insa.gov.et site.
   a. Hint: some files are named in another language
2. What is the text file from insa web-site
3. Give me screenshot of GHD result of That displays Nathan Hailu with geeztech only

Class is Over!

1) DO notes
2) Ask questions
3) Practice more

On This Season we will Have lots of fun(easy,medium) and challenging(hard,insane) tasks