

Scope Based Recon Methodology by Bhagirath Saxena (@rix4uni) For GarudRecon

Presented with **xmind**

**Scope Based
Recon
Methodology
by Bhagirath
Saxena (@r...**

Small Scope

Medium Scope

Large Scope

Small Scope

Small Scope

Only Specific URLs are part of Scope.
This usually includes
staging/dev/testing or single URLs. like:
support.dell.com

Only Specific URLs are part of Scope. T...

Recon To-Do

Recon To-Do


- Port Scanning & Probing
- Technology Fingerprinting
- Directory Enumeration
- Url Crawling
- Google Dorking

Recon To-Do

- Google Dorking
- JS Crawling
- Hidden Parameter
- Program Based Wordlist Generator
- Github Dorking

Recon To-Do

Program Based Recon and Enumeration

- Github Dorking
- 403/401 bypass
- [byp4xx](#) 
- Known Vulnerabilities

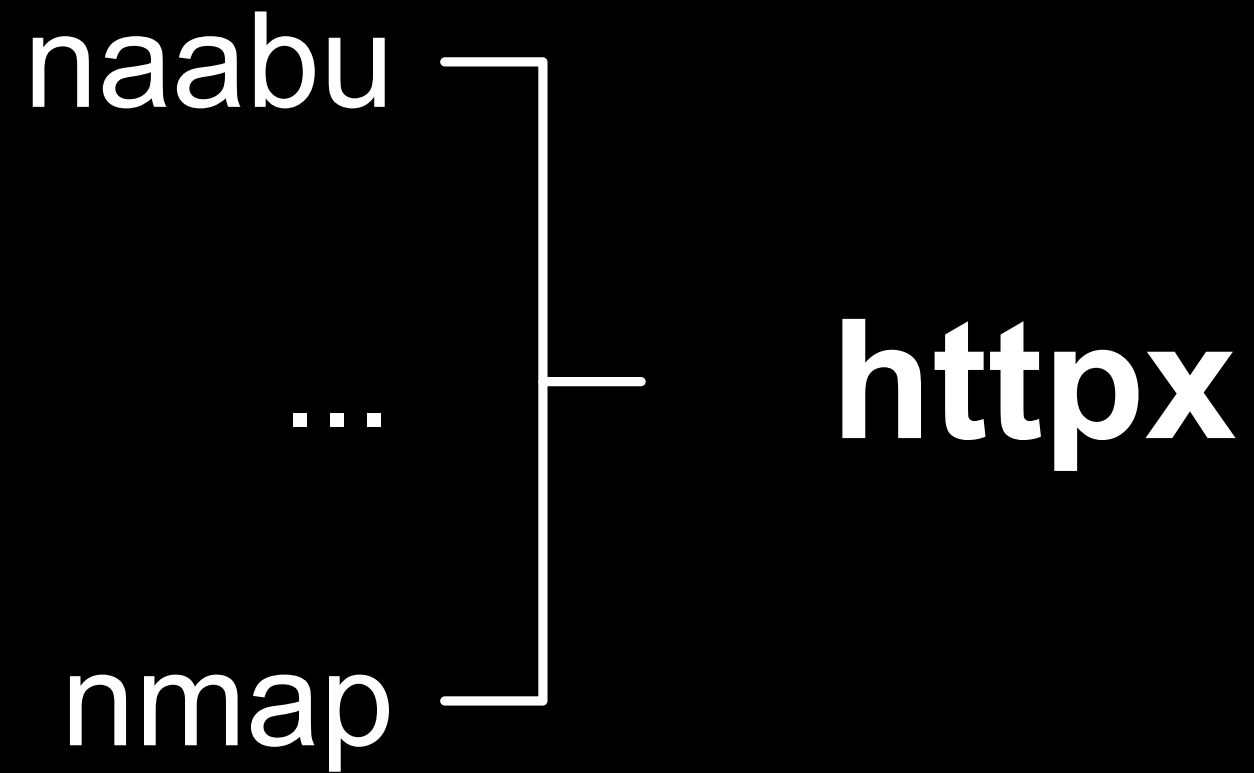
Port Scanning & Probing

- naabu
- masscan
- rustscan
- nmap

naabu

```
cat subs.txt | naabu -duc -silent -o naabu.txt
```

(top 1000 or 65365)



httpx

```
cat naabu.txt | httpx -silent -duc -nc -nf -title -ct -sc -cl -o httpx.txt
```

Technology Fingerprinting

techx

techx

nucleitechx

Directory Enumeration

- ffuf
- dirsearch
- feroxbuster
- wfuzz

ffuf

```
ffuf -c -u https://example.com/FUZZ -w onelistforallshort.txt
```

```
https://github.com/dwyl/english-words/blob/master/words.txt
```

```
ffuf -c -u https://example.com/FUZZ.zip -w words.txt -mc 200,302
```

```
ffuf -c -u https://example.com/FUZZ.php -w words.txt -mc 200,302
```

```
# default fuzzing 403, 404 domains
```


ffuf

```
ffuf -c -u https://example.com/FUZZ -w onelistforallshort.txt
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https://github.com/dwyl/english-words/blob/master/words.txt
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ffuf -c -u https://example.com/FUZZ.php -w words.txt -mc 200,302
```

```
# default fuzzing 403, 404 domains
```


ffuf

ffufPostprocessing [↗](#)

Url Crawling

- waymore
- hakrawler
- waybackurls
- gau
- katana

Url Crawling

- katana
- gospider
- uforall
- github-endpoints
- [crawley](#) 

Url Crawling

- urlgrab [↗](#)
- GoLinkFinder [↗](#)
- cariddi [↗](#)
- Burp 1.7 spider urls

Google Dorking

- Automated
- Manual

Automated

- xnldorker [↗](#)
- uDork [↗](#)
- GooFuzz [↗](#)
- dorks_hunter [↗](#)

Manual

- <https://pentestingdorks.netlify.app/google/>
- BulkURLOpener [↗](#)

<https://pentestingdorks.netlify.app/google/>


Do you want to add your manually google dorks output in google-dorks-output.txt or do you want to skip or wait 30 minites: Y/N/wait

this will automatically choose N if no output provide within 30minutes

JS Crawling

- subjs
- getJS
- jscrawler
- linkfinder
- xnLinkFinder

JS Crawling

- xnLinkFinder
- getjswords
- gowitness
- sourcemapper
- linx 

JS Crawling

- sourcemapper
- linx [↗](#)
- other tools [↗](#)
- js moniter [↗](#)

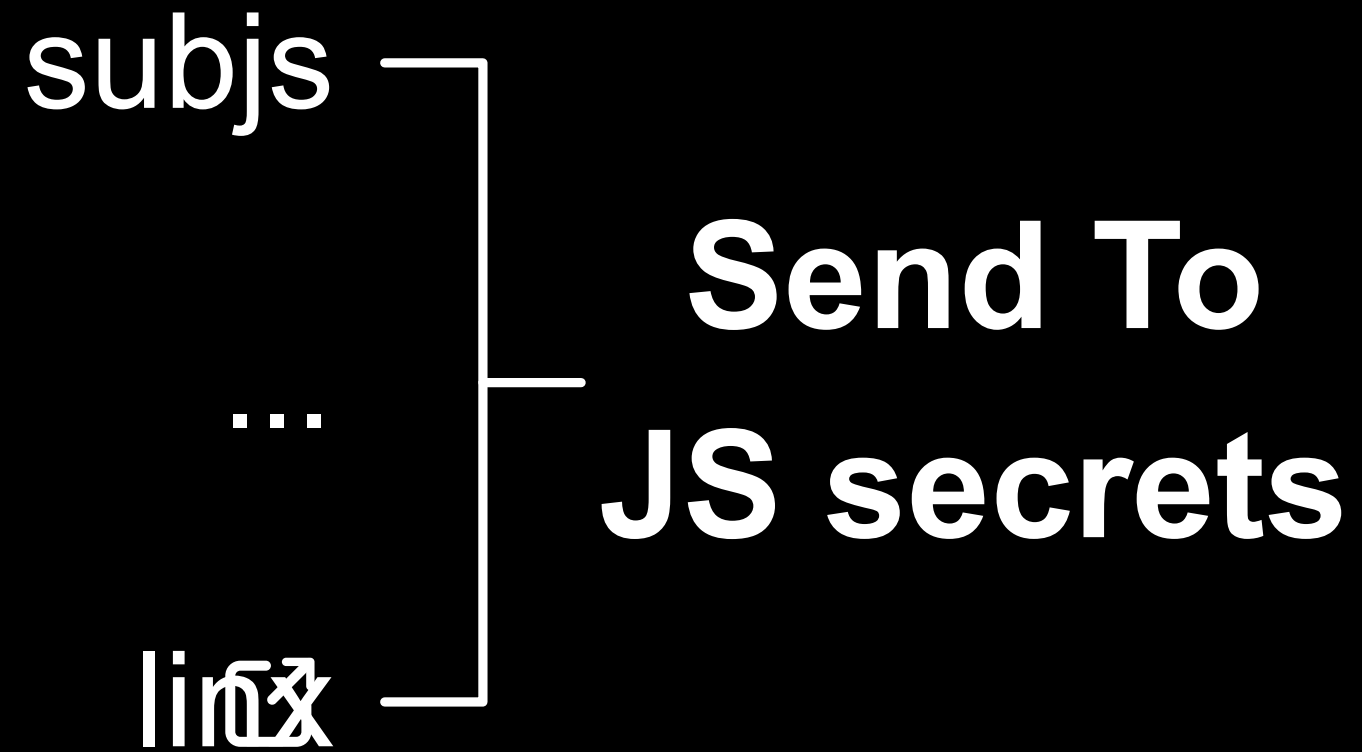
gowitness

collect js links in gowitness network logs, gives extra links because it's DOM based data

sourcemappper

```
sourcemappper -insecure -output sourcemappper -url  
https://www.cga.ct.gov/aspx/cgabilltracking/pub/Scripts/js/pdfmake.min.js.map
```

```
interlace -tL js_links.txt -threads 10 -c "sourcemappper -insecure -url _target_ -output  
_output_/_cleantarget_" -o .tmp/sourcemappper
```



Hidden Parameter

- paramfinder
- msarjun (arjun)
- x8

Program Based Wordlist Generator

- cewl
- unfurl
- roboxttractor [↗](#)
- Password Generation

Password Generation

pydictor 

Github Dorking

gitrob

403/401 bypass

These tools only can bypass 403 endpoints not 403 domain

403/401 bypass

- `byp4xx` [↗](#)
- `4-ZERO-3` [↗](#)

Known Vulnerabilities

1st check vulnerability on hidden urls then exclude those hidden urls you already checked in gf urls, and check gf parameters then exclude hidden and gf urls because you already checked those urls and check all parameters

this way you can avoid getting blocked/getting temporary website down

Known Vulnerabilities

- xss (knoxnl with knoxss, dalfox, pyxss)
- error based sqli (nuclei template)
- blind sqli (gosqli with ghauri and sqlmap)
- lfi (nuclei template)
- rce (nuclei template)

Known Vulnerabilities

- rce (nuclei template)
- Dot Git
- Hardcoded Information in JavaScript (nuclei exposures template)
- technology based vuln (nucleitechx)
- Sensitive PDFs

Known Vulnerabilities

- technology based vuln (nucleitechx)
- Sensitive PDFs
- URLs Secrets
- JS secrets

Dot Git

goop

Sensitive PDFs

pdftotext

pdftotext

<https://ott3rly.com/mass-hunting-for-leaked-sensitive-documents/>

```
interlace -tL urls.txt -threads 10 -c "curl -s _target_ | pdftotext -  
_output_/_cleantarget_.txt" 2>/dev/null" -o ~/pdf &>/dev/null
```

```
find ~/pdf -type f -print0 | xargs --null grep -Z -L -Eai 'internal use only|confidential' |  
xargs --null rm
```

pdftotext

<https://ott3rly.com/mass-hunting-for-leaked-sensitive-documents/>

```
interlace -tL urls.txt -threads 10 -c "curl -s _target_ | pdftotext -  
_output_/_cleantarget_.txt" 2>/dev/null" -o ~/pdf &>/dev/null
```

```
find ~/pdf -type f -print0 | xargs --null grep -Z -L -Eai 'internal use only|confidential' |  
xargs --null rm
```

URLs Secrets

- back-me-up [↗](#)
- linkinspector [↗](#)

JS secrets

- nuceli exposures
- trufflehog
- secretfinder [↗](#)
- mantra

Medium Scope

Medium Scope

Usually the scope is wild card scope where all the subdomains are part of scope. like:

Scope: *.dell.com

**Usually the scope is
wild card scope whe...**

Recon To-Do

Recon To-Do

- Passive Subdomain Enumeration
- Certificate Transparency
- Content Security Policy
- Subdomain Permutations
- Subdomain DNS Enumeration

Recon To-Do

- Subdomain DNS Enumeration
- Cloud Recon
- Subdomain Analytics Enumeration
- Port Scanning & Probing
- Subdomain Probing

Recon To-Do

- Subdomain Bruteforcing
- VHOST Discovery
- Screenshotting
- Directory Enumeration
- Email Enumeration

Recon To-Do

- Email Enumeration
- IP Information Enumeration [↗](#)
- Url Crawling
- Google Dorking
- JS Crawling

Recon To-Do

- JS Crawling
- Hidden Parameter
- Program Based Wordlist Generator
- Github Dorking
- 403/401 bypass
- Favicon Lookup

Recon To-Do

- Favicon Lookup
- Internet Search Engine Discovery (Shodan, Censys, FOFA, Hunter How, Spyse, etc.)
- Misconfigured Cloud Storage
- IP Range Enumeration (If in Scope)

Recon To-Do

- Misconfigured Cloud Storage
- IP Range Enumeration (If in Scope)
- Testing TLS/SSL encryption
- Vulnerability Scanning

Passive Subdomain Enumeration

- BugBountyData [↗](#)
- subfinder
- amass
- subdog
- findomain

Passive Subdomain Enumeration

- findomain
- chaos
- github-subdomains
- bbot
- oneforall

Passive Subdomain Enumeration

- DDOT
- oneforall
- shosubgo
- assetfinder
- SubDomainizer

Certificate Transparency

- certinfo
- rcert
- cero

Content Security Policy

csprecon 

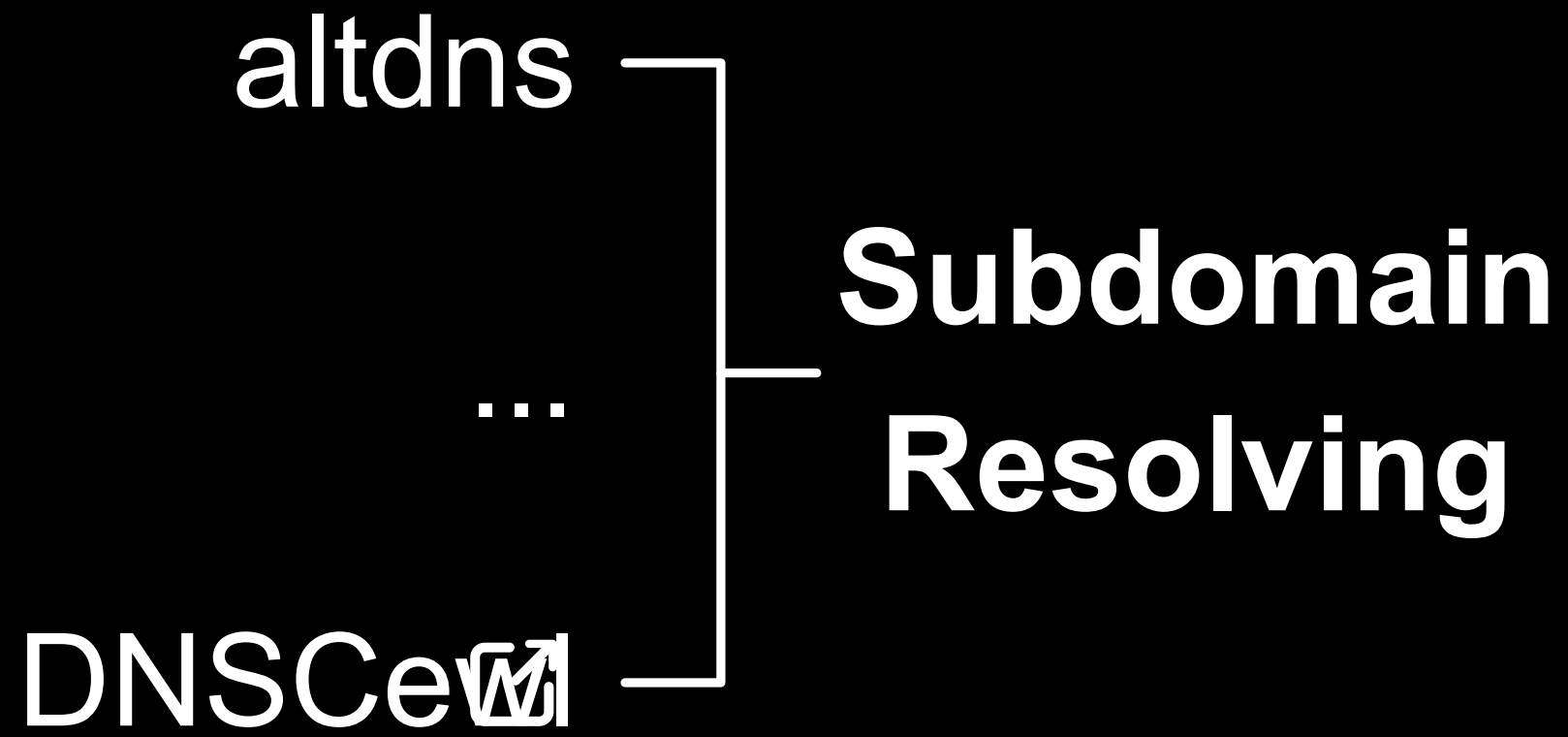
Subdomain Permutations

- altdns
- puredns
- alterx
- gotator
- dnsgen

Subdomain Permutations

goaltdns

- dnsgen
- goaltdns
- ripgen
- DNSCewl [↗](#)



Subdomain Resolving

- puredns
- shuffleDNS
- massdns

Subdomain DNS Enumeration

dnsx

Cloud Recon

- Cloudrecon
- <http://kaeferjaeger.gay>
- CIDR Ranges

Cloudrecon

<https://github.com/g0ldencybersec/CloudRecon>

Tool

Ip ranges

https://raw.githubusercontent.com/lord-alfred/ipranges/main/all/ipv4_merged.txt

`CloudRecon scrape -i ipv4_merged.txt | grep 'target.com'`

Cloudrecon

<https://github.com/g0ldencybersec/CloudRecon>

Tool

Ip ranges

https://raw.githubusercontent.com/lord-alfred/ipranges/main/all/ipv4_merged.txt

```
CloudRecon scrape -i ipv_merged.txt | grep 'target.com'
```

CIDR Ranges

<https://whois.arin.net/ui/query.do>

```
prips 23.228.128.0/18 | certinfo | jq -r '.Certificate_Subject_Alternative_Name // empty | .[]'
```

and

```
prips 23.228.128.0/18 | haki2host | awk '{print $3}' | tee -a haki2host-output.txt
```

CIDR Ranges

<https://whois.arin.net/ui/query.do>

```
prips 23.228.128.0/18 | certinfo | jq -r '.Certificate_Subject_Alternative_Name // empty | .[]'
```

and

```
prips 23.228.128.0/18 | haki2host | awk '{print $3}' | tee -a haki2host-output.txt
```


Subdomain Analytics Enumeration

analyticsrelationships 

Port Scanning & Probing

- naabu
- masscan
- rustscan
- nmap

naabu

```
cat subs.txt | naabu -duc -silent -o naabu.txt
```

(top 1000 or 65365)

Subdomain Probing

httpx

httpx

```
cat naabu.txt | httpx -silent -duc -nc -nf -title -ct -sc -cl -o httpx.txt
```

httpx

dlevel

dlevel

sort subdomains high level to bottom level, this way you can avoid duplicate if do google dorking and fuzzing like this, because not many people touch high level subdomain

<https://github.com/rix4uni/dlevel>

Subdomain Bruteforcing

ffuf

Screenshotting

- gowitness
- aquatone [↗](#)
- EyeWitness [↗](#)
- httpx

gowitness

```
cat httpx.txt | awk '{print $1}' | unew -el -i -t -q only_httpx_urls.txt && time cat  
only_httpx_urls.txt | gowitness file -f - --fullpage --timeout 30 --threads 4 --  
screenshot-db-store
```

don't use nuclei of httpx for screenshotting, i see big difference

I see screenshot on same input

gowitness: 19

```
cat httpx.txt | awk '{print $1}' | unew -el -i -t -q only_httpx_urls.txt && time cat  
only_httpx_urls.txt | gowitness file -f - --fullpage --timeout 30 --threads 4 --  
screenshot-db-store
```

don't use nuclei of httpx for screenshotting, i see big difference

I see screenshot on same input

gowitness: 19

nuclei: 11

httpx: 2

Directory Enumeration

- ffuf
- dirsearch
- feroxbuster
- wfuzz

ffuf

```
ffuf -c -u https://example.com/FUZZ -w onelistforallshort.txt
```

```
https://github.com/dwyl/english-words/blob/master/words.txt
```

```
ffuf -c -u https://example.com/FUZZ.zip -w words.txt -mc 200,302
```

```
ffuf -c -u https://example.com/FUZZ.php -w words.txt -mc 200,302
```

```
# default fuzzing 403, 404 domains
```

ffuf

```
ffuf -c -u https://example.com/FUZZ -w onelistforallshort.txt
```

```
https://github.com/dwyl/english-words/blob/master/words.txt
```

```
ffuf -c -u https://example.com/FUZZ.zip -w words.txt -mc 200,302
```

```
ffuf -c -u https://example.com/FUZZ.php -w words.txt -mc 200,302
```

```
# default fuzzing 403, 404 domains
```

ffuf

ffufPostprocessing [↗](#)

Email Enumeration

- emailfinder [↗](#)
- LeakSearch [↗](#)

Url Crawling

- waymore
- hakrawler
- waybackurls
- gau
- katana

Url Crawling

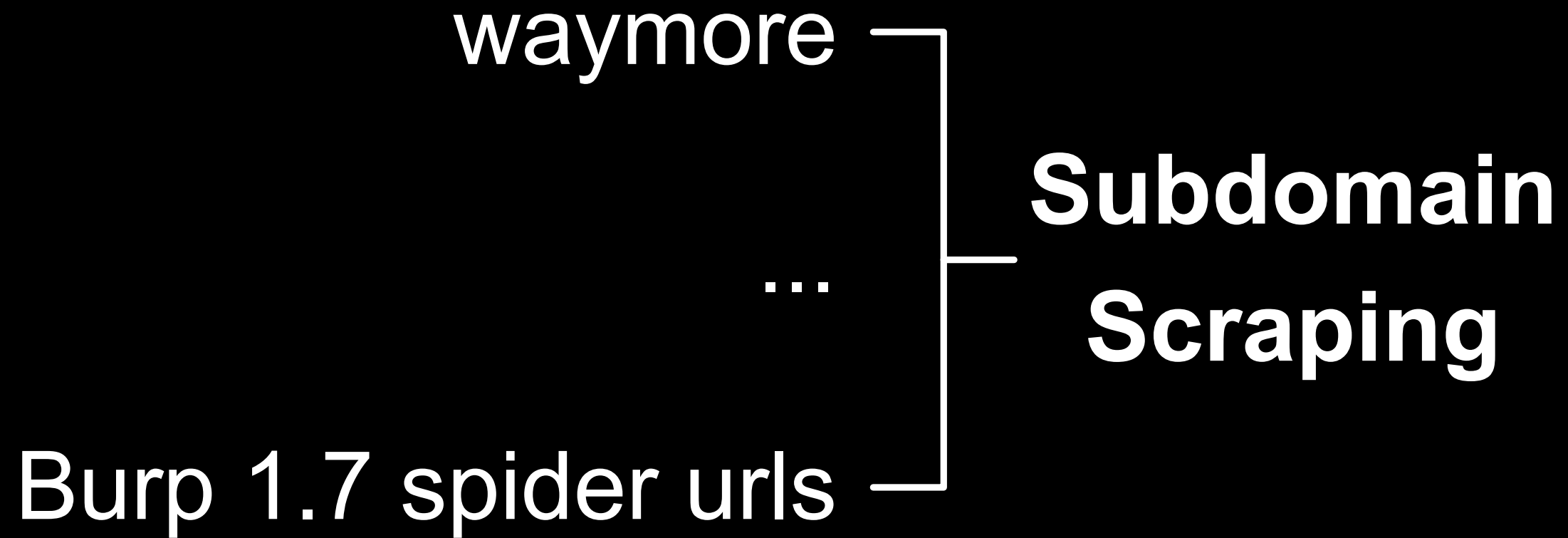
- katana
- gospider
- uforall
- github-endpoints
- crawley [↗](#)

Url Crawling

- galer [↗](#)
- roboextractor [↗](#)
- urlgrab [↗](#)
- GoLinkFinder [↗](#)
- cariddi [↗](#)

Url Crawling

- urlgrab [↗](#)
- GoLinkFinder [↗](#)
- cariddi [↗](#)
- Burp 1.7 spider urls



Subdomain Scrapping

```
cat urls.txt | cut -d"/" -f1-3 | anew subs.txt | tee scrape-subs.txt
```

Google Dorking

- Automated
- Manual

Automated



- xnldorker [↗](#)
- uDork [↗](#)
- GooFuzz [↗](#)
- dorks_hunter [↗](#)
- go-dork [↗](#)

Automated

• Automated [↗](#)

- uDork [↗](#)
- GooFuzz [↗](#)
- dorks_hunter [↗](#)
- go-dork [↗](#)


Manual

- <https://pentestingdorks.netlify.app/google/>
- BulkURLOpener 
- Bulk URL Opener Extension 

JS Crawling

- subjs
- getJS
- jscrawler
- linkfinder
- xnLinkFinder

JS Crawling

- xnLinkFinder
- getjswords
- gowitness
- sourcemapper
- linx 

JS Crawling

get started

- sourcemapper
- linx [↗](#)
- other tools [↗](#)
- js moniter [↗](#)

gowitness

collect js links in gowitness network logs, gives extra links because it's DOM based data

sourcemappper


```
sourcemappper -insecure -output sourcemappper -url  
https://www.cga.ct.gov/aspx/cgabilltracking/pub/Scripts/js/pdfmake.min.js.map
```

```
interlace -tL js_links.txt -threads 10 -c "sourcemappper -insecure -url _target_ -output  
_output_/_cleantarget_" -o .tmp/sourcemappper
```

Hidden Parameter

- paramfinder
- msarjun (arjun)
- x8

Program Based Wordlist Generator

- cewl
- unfurl
- cook 
- Password Dictionary Generation

cewl

```
cewl -d 2 -m 5 https://example.com | sed '1d'
```

```
interlace -tL httpx.txt -threads 100 -c "proxychains cewl -d 2 -m 5 _target_ | sed '1d' |  
unew -q _output_/_cleantarget_.txt" -o cewlwordlist &>/dev/null
```

Password Dictionary Generation

pydictor [↗](#)

Github Dorking

- gitrepoenum [↗](#)
- gitrob
- gitleaks [↗](#)
- trufflehog
- code-review [↗](#)

Github Dorking

github

- gitleaks [↗](#)
- trufflehog
- code-review [↗](#)
- gitdorks_go [↗](#)

403/401 bypass

These tools only can bypass 403 endpoints not 403 domain

403/401 bypass

- [byp4xx](#) ↗
- [4-ZERO-3](#) ↗
- [403jump](#) ↗
- [BypassFuzzer](#) ↗
- [nomore403](#) ↗

403/401 bypass


↳ bypass 403 401

- 4-ZERO-3 [↗](#)
- 403jump [↗](#)
- BypassFuzzer [↗](#)
- nomore403 [↗](#)

Favicon Lookup

- favinfo [↗](#)
- favirecon [↗](#)

Internet Search Engine Dis...

- uncover
- karma_v2 
- shodan

Misconfigured Cloud Storage

S3 buckets


S3 buckets

S3Scanner [↗](#)



Testing TLS/SSL encryption

testssl.sh 

Vulnerability Scanning

- Subdomain Takeover
- MX Takeover
- DNS takeover
- Zone Transfer
- ftpx 

Vulnerability Scanning

- ftpx 
- SSHBruteForce 
- vulntechx
- XSS
- SQLI

Vulnerability Scanning

- LFI
- RCE
- AEM
- Grafana
- Jenkins

Vulnerability Scanning

- Jenkins
- JIRA
- Swagger UI
- Symfony
- PHPMYADMIN

Vulnerability Scanning

- Dependency Confusion
- Dot Git
- Hardcoded Information in JavaScript (nuclei exposures template)
- IIS Windows Server

Vulnerability Scanning

- IIS Windows Server
- fuzzuli [↗](#)
- Sensitive PDFs
- Prototype Pollution
- HTTP Request Smuggling

Vulnerability Scanning

- Web Cache Poisoning
- URLs Secrets
- Password Spraying
- JS secrets

Subdomain Takeover

- subjack
- subzy
- tko-subs [↗](#)
- subsnipe [↗](#)
- nuclei

Subdomain Takeover

• subjack

- subzy

- tko-sub [↗](#)

- subsnipe [↗](#)

- nuclei

nuclei

nuclei -tags takeover

MX Takeover

mxtakeover 

DNS takeover

dnstake 

Zone Transfer

dig

XSS

- Reflected XSS
- Blind XSS
- DOM XSS

Reflected XSS

- xsschecker
- knoxnl
- dalfox
- XSpear [↗](#)

xsschecker

pyxss

knoxnl

knoxnl uses KnoxSS API

Blind XSS

- [ezxss](#) 
- [xss.report](#) 

DOM XSS

domscan 

SQLI

- Error Based SQLI
- Blind Time Based SQLI

Error Based SQLI

nuclei template

Blind Time Based SQLi

gosqli

gosqli

- ghauri
- sqlmap

LFI

nuclei template

RCE

nuclei template

Dot Git

goop

IIS Windows Server

Collect iis domains in "Technology Fingerprinting" and "httpx"

```
cat techx-output.txt httpx.txt | unew -q iis_sites.txt
```

```
interlace -tL iis_sites.txt -threads 100 -c "shortscan _target_ -F -s -p 1 >  
_output_/_cleantarget_.txt" -o ~/iis &>/dev/null
```

```
find ~/iis -type f -print0 | xargs --null grep -Z -L 'Vulnerable: Yes' | xargs --null rm
```


IIS Windows Server

Collect iis domains in "Technology Fingerprinting" and "httpx"

```
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```
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```

```
find ~/iis -type f -print0 | xargs --null grep -Z -L 'Vulnerable: Yes' | xargs --null rm
```

Sensitive PDFs

pdftotext

pdftotext

<https://ott3rly.com/mass-hunting-for-leaked-sensitive-documents/>

```
interlace -tL urls.txt -threads 10 -c "curl -s _target_ | pdftotext -  
_output_/_cleantarget_.txt" 2>/dev/null" -o ~/pdf &>/dev/null
```

```
find ~/pdf -type f -print0 | xargs --null grep -Z -L -Eai 'internal use only|confidential' |  
xargs --null rm
```

pdftotext

<https://ott3rly.com/mass-hunting-for-leaked-sensitive-documents/>

```
interlace -tL urls.txt -threads 10 -c "curl -s _target_ | pdftotext -  
_output_/_cleantarget_.txt" 2>/dev/null" -o ~/pdf &>/dev/null
```

```
find ~/pdf -type f -print0 | xargs --null grep -Z -L -Eai 'internal use only|confidential' |  
xargs --null rm
```

Prototype Pollution

ppmap 

HTTP Request Smuggling

smuggler 

Web Cache Poisoning

Web-Cache-Vulnerability-
Scanner [↗](#)

URLs Secrets

- linkinspector [↗](#)
- back-me-up [↗](#)

Password Spraying

brutespray 

JS secrets

- nuceli exposures
- trufflehog
- secretfinder [↗](#)
- mantra

Large Scope

Large Scope

Everything related to the Organization is a part of Scope. This includes child companies, subdomains or any labelled asset owned by organization.

Everything related to the Organization is a...

Recon To-Do

Recon To-Do

- Tracking & Tracing every possible signatures of the Target Application
(Often there might not be any history on Google related to a scope target, but you can still crawl it.)
- Subsidiary & Acquisition Enumeration (Depth – Max)
- Reverse Lookup
- ASN & IP Space Enumeration and Service Identification

Recon To-Do

- ASN
- Acquisitions
- Google Dorking to find Acquisitions
- Cloud Recon
- Certificate Transparency

Recon To-Do

- Certificate Transparency
- Ad and Analytics
- Subdomain Enumeration
- Subdomain Takeover
- Probing & Technology Fingerprinting
- Port Scanning

Recon To-Do

- Port Scanning
- Known Vulnerabilities
- Template Based Scanning (Nuclei/Jeales)
- Broken Link Hijacking
- Directory Enumeration
- Hardcoded Information in JavaScript

Recon To-Do

- Hardcoded Information in JavaScript
- GitHub Reconnaissance
- Google Dorking
- Data Breach Analysis
- Parameter Fuzzing

Recon To-Do


- Internet Search Engine Discovery (Shodan, Censys, Spyse, etc.)
- IP Range Enumeration (If in Scope)
- Wayback History
- Potential Pattern Extraction with GF and automating further for XSS, SSRF, etc.
- Heartbleed Scanning

Recon To-Do

SSRF, etc.

- Heartbleed Scanning
- General Security Misconfiguration Scanning
- And any possible Recon Vector (Network/Web) can be applied.
- code-review

ASN

- [asnlookup](#) 
- [metabigor](#)
- [org2asn](#)

Acquisitions

- crunchbase
- wikipedia
- <https://www.startuppranking.com/startup/google/acquisitions>
- aleph.occrp.org

crunchbase

<https://pentestingdorks.netlify.app/crunchbase>

```
site:crunchbase.com google acquisitions
```

```
cat tmp.txt | grep -E "https://www.crunchbase.com/organization/|https://www.crunchbase.com/acquisition/" | sed 's/acquisition/organization/' | sed 's|.*\/(.*)-acquires-\/(.*)--.*|https://www.crunchbase.com/organization/\2|'
```

wikipedia

site:wikipedia.org google acquisitions

aleph.occrp.org

<https://aleph.occrp.org/entities/7b7d09a2d8dc6ba480655a79953630f61331cf60.da69c7367a0c0d85c10efa72076cb762c2884eda>

Google Dorking to find Ac...

- Trademark
- Twitter
- Apex Domains
- TLD
- ORG Name / Subsidiaries

Google Dorking to find Ac...

Apex Domains

- TLD
- ORG Name / Subsidiaries
- Wildcard Domains
- Favicon

Trademark

- intext:"Copyright © 2024 Google LLC"
 - intext:"Copyright © 2024 google"
 - intext:"2024 Google LLC"
 - intext:"Google LLC. All rights reserved."
- # change different year also like 2023, 2022

Twitter

https://twitter.com/search?q=google&src=typed_query&f=user

this will give Apex Domains and TLD

Apex Domains

- `intext:"2024 google"`
- `site:google`

change different year also like 2023, 2022

TLD

- `site:*.google.* -site:google.com`
- `site:*.google -site:google.com`
- `site:google.*`
- `intext:@google.com`
- `intext:@google`
- `curl -s "https://crt.sh/?q=google&output=json" | jq -r '[][.common_name] | grep "*" |
unew -p`

TLD

- `site:*.google.* -site:google.com`
- `site:*.google -site:google.com`
- `site:google.*`
- `intext:@google.com`
- `intext:@google`
- `curl -s "https://crt.sh/?q=google&output=json" | jq -r '[][.common_name] | grep "*" |
unew -p`

TLD

tldscan

tldscan

```
bash tldscan -q google
```

ORG Name / Subsidiaries

```
curl -s 'https://www.google.com/search?
q=Google+Inc.+subsidiaries&sourceid=chrome&ie=UTF-8' -H 'user-agent:
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/53
7.36 (KHTML, like Gecko) Chrome/128.0.0.0 Safari/537.36' | grep -oP 'role="tab"
title="\K[^"]+' | unew
```

Wildcard Domains

Do with all apex domains like this with 10 *.

site:*.withgoogle.com

site:*.*.withgoogle.com

site:*.mandiant.com

site:*.*.mandiant.com

Favicon

- FOFA
- FavFreak

Cloud Recon

- Cloudrecon
- <http://kaeferjaeger.gay>
- CIDR Ranges

Cloudrecon

<https://github.com/g0ldencybersec/CloudRecon>

Tool

Ip ranges

https://raw.githubusercontent.com/lord-alfred/ipranges/main/all/ipv4_merged.txt

`CloudRecon scrape -i ipv4_merged.txt | grep 'target.com'`

Large Scope

Cloudrecon

<https://github.com/g0ldencybersec/CloudRecon>

Tool

Ip ranges

https://raw.githubusercontent.com/lord-alfred/ipranges/main/all/ipv4_merged.txt

```
CloudRecon scrape -i ipv_merged.txt | grep 'target.com'
```


CIDR Ranges

<https://whois.arin.net/ui/query.do>

```
prips 23.228.128.0/18 | certinfo | jq -r '.Certificate_Subject_Alternative_Name // empty | .[]'
```

and

```
prips 23.228.128.0/18 | haki2host | awk '{print $3}' | tee -a haki2host-output.txt
```

CIDR Ranges

<https://whois.arin.net/ui/query.do>

```
prips 23.228.128.0/18 | certinfo | jq -r '.Certificate_Subject_Alternative_Name // empty | .[]'
```

and

```
prips 23.228.128.0/18 | haki2host | awk '{print $3}' | tee -a haki2host-output.txt
```

Certificate Transparency

- certinfo
- rcert
- cero

rcert

```
bash rcert.sh google.com
```

or

```
bash rcert.sh domains.txt
```

Ad and Analytics

Builtwith

Builtwith

Firefox Extension:

<https://addons.mozilla.org/en-US/firefox/addon/builtwith>

Chrome Extension:

<https://chromewebstore.google.com/detail/builtwith-technology-prof/dapjbgmjnbpoinclpdmhochffioedbn?hl=en&pli=1>

Using CLI tool:

[python3_getrelationship.py anideo.com](https://pypi.org/project/python3_getrelationship.py/)

Firefox Extension:

<https://addons.mozilla.org/en-US/firefox/addon/builtwith>

Chrome Extension:

<https://chromewebstore.google.com/detail/builtwith-technology-prof/dapjbgnjinbpoinclpdmhochffioedbn?hl=en&pli=1>

Using CLI tool:

```
python3 getrelationship.py apigee.com
```

```
FgMABMLf4RoJrjFXjTBT1/13WHxgNxUwCJmvd0Urq2gzhAVVXcQBcVTITfkZXcqVo  
yhEbYgRK+mQLAAJ5vej8jGtt0f0IzFtQ1N/gy9qDXU= | tee -a output.txt
```

Thank you