Assets-from-spf

- Description
 - o Parse net blocks & domain names from SPF records
 - o https://github.com/yamakira/assets-from-spf
- Installation
- git clone https://github.com/yamakira/assets-from-spf.git
- pip install click ipwhois
- Usage
 - o cd the-art-of-subdomain-enumeration; python assets_from_spf.py target.com
 - Options
 - --asn: Enable ASN enumeration

BiLE-suite

- Description
 - o HTML parsing, reverse DNS, TLD expansion, horizontal domain correlation
 - o https://github.com/sensepost/BiLE-suite
- Installation
- aptitude install httrack
- git clone https://github.com/sensepost/BiLE-suite.git
- Usage
 - o List links related to a site: cd BiLE-suite; perl BiLE.pl target.com target

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Extract subdomains from the results of BiLe.pl: `cat	grep -v "Link	cut -d':' -	grep
target.mine	from"	f2	target.co

Bing

- Search engine
- Usage
 - o Find subsomains: site:target.com
 - Find subdomains & exclude specific ones: site:target.com site:www.target.com

Censys_subdomain_enum.py

- Description
 - o Extract domains & emails from SSL/TLS certs collected by Censys

- https://github.com/appsecco/the-art-of-subdomainenumeration/blob/master/censys subdomain enum.py
- Installation
- pip install censys
- git clone https://github.com/appsecco/the-art-of-subdomain-enumeration.git
 - Add your CENSYS API ID & SECRET to the-art-of-subdomainenumeration/censys_subdomain_enum.py
- Usage
 - cd the-art-of-subdomain-enumeration; python censys_enumeration.py target.com

Cloudflare_enum.py

- Description
 - o Extract subdomains from Cloudflare
 - o DNS aggregator
 - https://github.com/appsecco/the-art-of-subdomainenumeration/blob/master/cloudflare subdomain enum.py
- Installation
- pip install censys
- git clone https://github.com/appsecco/the-art-of-subdomain-enumeration.git
- Usage
 - the-art-of-subdomain-enumeration; python cloudflare_subdomain_enum.py your@cloudflare.email target.com

Crt_enum_psql.py

- Description
 - o Query crt.sh postgres interface for subdomains
 - https://github.com/appsecco/the-art-of-subdomainenumeration/blob/master/crt_enum_psql.py
- Installation
- pip install psycopg2
- git clone https://github.com/appsecco/the-art-of-subdomain-enumeration.git
- Usage
 - cd python the-art-of-subdomain-enumeration; python crtsh_enum_psql.py target.com

Crt_enum_web.py

- Description
 - Parse crt.sh web page for subdomains
 - https://github.com/appsecco/the-art-of-subdomainenumeration/blob/master/crt enum web.py
- Installation
- pip install psycopg2
- git clone https://github.com/appsecco/the-art-of-subdomain-enumeration.git
- Usage
 - cd python the-art-of-subdomain-enumeration; python3 crtsh_enum_web.py target.com

CTFR

- Description
 - Enumerate subdomains using CT logs (crt.sh)
 - https://github.com/UnaPibaGeek/ctfr
- Installation
- git clone https://github.com/UnaPibaGeek/ctfr.git
- cd ctfr
- pip3 install -r requirements.txt
- Usage
 - o cd ctfr; python3 ctfr.py -d target.com -o \$outfile

Dig

- Description
 - o Zone transfer, DNS lookups & reverse lookups
- Installation
 - o Installed by default in Kali, otherwise:
 - o aptitude instal dnsutils
- Usage dig +multi AXFR target.com dig +multi AXFR \$ns_server target.com

Domains-from-csp

- Description
 - Extract domain names from Content Security Policy(CSP) headers
 - https://github.com/yamakira/domains-from-csp
- Installation

- git clone https://github.com/yamakira/domains-from-csp.git
- pip install click
- Usage
 - Parse CSP header for domains: cd domains-from-csp; python csp_parser.py
 \$URL
 - Parse CSP header & resolve the domains: cd domains-from-csp; python csp_parser.py \$URL -r

Dnscan

- Description
 - o AXFR, brute force
 - o https://github.com/rbsec/dnscan
- Install
- git clone https://github.com/rbsec/dnscan.git
- cd dnscan
- pip install -r requirements.txt
- Usage
 - Subdomain brute-force of a domain: dnscan.py -d target.com -o outfile -w
 Śwordlist
 - Subdomain brute-force of domains listed in a file (one by line): dnscan.py -l \$domains_file -o outfile -w \$wordlist
 - Other options:
 - -i \$file: Output discovered IP addresses to a text file
 - -r: Recursively scan subdomains
 - -T: TLD expansion

Dnsrecon

- Description
 - DNS zone transfer, DNS cache snooping, TLD expansion, SRV enumeration, DNS records enumeration, brute-force, check for Wildcard resolution, subdomain scraping, PTR record lookup, check DNS server cached records, mDNS records enumeration...
 - o https://github.com/darkoperator/dnsrecon
- Installation
 - o aptitude install dnsrecon on Kali, or:
 - o git clone https://github.com/darkoperator/dnsrecon.git

- o cd dnsrecon
- o pip install -r requirements.txt
- Usage
 - o Brute-force: dnsrecon -d target.com -D wordlist.txt -t brt
 - DNS cache snooping: dnsrecon -t snoop -D wordlist.txt -n 2.2.2.2 where 2.2.2.2
 is the IP of the target's NS server
 - o Options
 - --threads 8: Number of threads
 - n nsserver.com: Use a custom name server
 - Output options
 - --db: SQLite 3 file
 - --xml: XML file
 - --json: JSON file
 - --csv: CSV file

Dnssearch

- Description
 - o Subdomain brute-force
 - https://github.com/evilsocket/dnssearch
- Installation
- go get github.com/evilsocket/dnssearch
 - Add ~/go/bin/ to PATH by adding this line to ~/.profile: export PATH=\$PATH:/home/mima/go/bin/
- Usage
 - o dnssearch -domain target.com -wordlist \$wordlist
 - Other options
 - -a bool: Lookup A records (default true)
 - -txt bool: Lookup TXT records (default false)
 - -cname bool: Show CNAME records (default false)
 - -consumers 10: Number of threads (default 8)

Domained

Description

- Wrapper for Sublist3r, Knock, Subbrute, Massdns, Recon-ng, Amass & SubFinder
- https://github.com/cakinney/domained
- Installation
- git clone https://github.com/cakinney/domained.git
- cd domained
- pip install -r ./ext/requirements.txt
- python domained.py --install
- Usage
 - Run Sublist3r (+subbrute), enumall, Knock, Amass & SubFinder: python domained.py -d target.com
 - Run only Amass & Subfinder: python domained.py -d target.com --quick
 - Brute-force with massdns & subbrute with Seclist wordlist, plus Sublist3r,
 Amass, enumall & SubFinder: python domained.py -d target.com --b
 - Bruteforce with Jason Haddix's All.txt wordlist, plus Sublist3r, Amass, enumall
 & SubFinder: python domained.py -d target.com -b --bruteall
 - Other options
 - --notify: Send Pushover or Gmail notifications
 - --noeyewitness: No Eyewitness
 - --fresh: Delete old data from output folder

Fierce

- Description
 - o AXFR, brute force, reverse DNS
 - https://github.com/bbhunter/fierce-domain-scanner (original link not available anymore)
- Installation
 - o Installed by default on Kali
- Usage fierce -dns target.com

Gobuster

- Description
 - o todo
 - https://github.com/OJ/gobuster
- Installation

- git clone https://github.com/OJ/gobuster.git
- cd gobuster/
- go get && go build
- go install
- Usage
 - o gobuster -m dns -u target.com -w \$wordlist
 - Other options:
 - -i: Show IP addresses
 - -t 50: Number of threads (default 10)

Google

- · Search engine
- Usage
 - o Find subsomains: site:*.target.com
 - Find subdomains & exclude specific ones: site:*.target.com site:www.target.com -site:help.target.com

Knock

- Description
 - o AXFR, virustotal, brute-force
 - o https://github.com/guelfoweb/knock
- Install
- apt-get install python-dnspython
- git clone https://github.com/guelfoweb/knock.git
- cd knock
- nano knockpy/config.json # <- set your virustotal API_KEY
- python setup.py install
- Usage
 - Use default wordlist: knockpy target.com
 - Use custom wordlist: knockpy target.com -w \$wordlist
 - Resolve domain name & get response headers: knockpy -r target.com or knockpy -r \$ip
 - Save scan output in CSV: knockpy -c target.com
 - o Export full report in JSON: knockpy -j target.com

Ldns-walk

- Description
 - DNSSEC zone walking
- Installation
 - o aptitude install Idnsutils
- Usage
 - o Detect if DNSSEC NSEC or NSEC3 is used:
 - Idns-walk target.com
 - Idns-walk @nsserver.com target.com
 - If DNSSEC NSEC is enabled, you'll get all the domains
 - o If DNSSEC NSEC3 is enabled, use Nsec3walker

Massdns

- Description
 - o DNS resolver
 - https://github.com/blechschmidt/massdns
- Installation
- git clone https://github.com/blechschmidt/massdns.git
- cd massdns/
- make
- Usage
 - Resolve domains: cd massdns; ./bin/massdns -r lists/resolvers.txt -t AAAA -w results.txt domains.txt -o S -w output.txt
 - Subdomain brute-force: ./scripts/subbrute.py wordlist.txt target.com |
 ./bin/massdns -r lists/resolvers.txt -t A -o S -w output.txt
 - Get subdomains with CT logs parser & resolve them with
 Massdns: ./scripts/ct.py target.com | ./bin/massdns -r lists/resolvers.txt -t A -o
 S -w output.txt
 - Other options:
 - -s 5000: Number of concurrent lookups (default 10000)
 - -t A (default), -t AAAA, -t PTR...: Type of DNS records to retrieve
 - Output options
 - -o S -w output.txt: Save output as simple text

- -o F: Save output as full text
- -o J: Save output as ndjson

Nsec3walker

- Description
 - DNSSEC NSEC3 zone walking
 - o https://dnscurve.org/nsec3walker.html
- Installation
- wget https://dnscurve.org/nsec3walker-20101223.tar.gz
- tar -xzf nsec3walker-20101223.tar.gz
- cd nsec3walker-20101223
- make
- Usage
- ./collect target.com > target.com.collect
- ./unhash target.com.collect > target.com.unhash
- cat target.com.unhash | grep "target" | wc -l
- cat target.com.unhash | grep "target" | awk '{print \$2;}'

Rapid7 Forward DNS dataset (Project Sonar)

- Description
 - Public dataset containing the responses to DNS requests for all forward DNS names known by Rapid7's Project Sonar
 - o https://opendata.rapid7.com/sonar.fdns-v2/
- Installation
 - aptitude install jq pigz
- Usage
- wget https://scans.io/data/rapid7/sonar.fdns_v2/20170417-fdns.json.gz
- cat 20170417-fdns.json.gz | pigz -dc | grep ".target.org" | jq`

San_subdomain_enum.py

- Description
 - Extract subdomains listed in Subject Alternate Name(SAN) of SSL/TLS certificates
 - https://github.com/appsecco/the-art-of-subdomainenumeration/blob/master/san subdomain enum.py

- Installation
 - o git clone https://github.com/appsecco/the-art-of-subdomain-enumeration.git
- Usage
 - cd python the-art-of-subdomain-enumeration; ./san_subdomain_enum.py target.com

Second Order

- Description
 - Second-order subdomain takeover scanner
 - Can also be leveraged as an HTML parser to enumerate subdomains
 - o https://github.com/mhmdiaa/second-order
- Installation
 - o go get github.com/mhmdiaa/second-order
- Usage
 - Create a new copy of the default config.json file: cp
 ~/go/src/github.com/mhmdiaa/second-order/config.json
 ~/go/src/github.com/mhmdiaa/second-order/config-subs-enum.json
 - And edit `~/go/src/github.com/mhmdiaa/second-order/config-subsenum.json to replace "LogCrawledURLs": false with "LogCrawledURLs": true`
 - o second-order -base https://target.com -config config.json -output target.com
 - Look for new subdomains in the resulting folder (./target.com)

Subbrute

- Description
 - Brute-force
 - o https://github.com/TheRook/subbrute
- Installation
- aptitude install python-dnspython
- git clone https://github.com/TheRook/subbrute.git
- Usage
 - Test a single domain: ./subbrute.py target.com
 - Test multiple domains: ./subbrute.py target1.com target2.com
 - Test a list of domains: ./subbrute.py -t domains.txt
 - Enumerate subdomains, then their own subdomains:

- ./subbrute.py target.com > target.out
- ./subbrute.py -t target.out
- Other options
 - -s wordlist.txt: Use a custom subdomains wordlist
 - -p: Print data from DNS records
 - -o outfile.txt: Save output in Greppable format
 - -j JSON: Save output to JSON file
 - -c 10: Number of threads (default 8)
 - -r resolvers.txt: Use a custom list of DNS resolvers

Subfinder

- Description
 - o VirusTotal, PassiveTotal, SecurityTrails, Censys, Riddler, Shodan, Bruteforce
 - https://github.com/subfinder/subfinder
- Installation:
 - o go get github.com/subfinder/subfinder
 - Configure API keys: ./subfinder --set-config VirustotalAPIKey=0x41414141
- Usage
 - Scraping: ./subfinder -d target.com -o \$outfile
 - Scraping & brute-force: subfinder -b -d target.com -w \$wordlist -o \$outfile
 - Brute-force only: ./subfinder --no-passive -d target.com -b -w \$wordlist -o \$outfie
 - Other options:
 - -t 100: Number of threads (default 10)
 - -r 8.8.8.8.1.1.1.1 or -rL resolvers.txt: Use custom resolvers
 - -nW: Exclude wildcard subdomains
 - -recursive: Use recursion
 - -o \$outfile -oJ: JSON output

Sublist3r

- Description
 - Baidu, Yahoo, Google, Bing, Ask, Netcraft, DNSdumpster, VirusTotal, Threat Crowd, SSL Certificates, PassiveDNS
 - https://github.com/aboul3la/Sublist3r

- Installation
- git clone https://github.com/aboul3la/Sublist3r.git
- cd Sublist3r
- pip install -r requirements.txt
- Usage
 - Scraping: ./sublist3r.py -d target.com -o \$outfile
 - Bruteforce: ./sublist3r.py -b -d target.com -o \$outfile
 - Other options:
 - -p 80,443: Show only subdomains which have open ports 80 and 443

Theharvester

- Description
 - Tool for gathering subdomain names, e-mail addresses, virtual hosts, open ports/ banners, and employee names from different public sources
 - o Scraping, Brute-force, Reverse DNS, TLD expansion
 - Scraping sources: Threatcrowd, Crtsh, Google, googleCSE, google-profiles, Bing, Bingapi, Dogpile, PGP, LinkedIn, vhost, Twitter, GooglePlus, Yahoo, Baidu, Shodan, Hunter
 - o https://github.com/laramies/theHarvester
- Installation
 - o aptitude install theharvester
- Usage
 - Scraping: theharvester -d target.com -b all
 - Other options:
 - -h output.html: Save output to HTML file
 - -f output.html: Save output to HTML & XML files
 - -t: Also do TLD expansion discovery
 - -c: Also do subdomain bruteforce
 - -n: Also do a DNS reverse query on all ranges discovered

vhost-brute

- Description
 - vhosts brute-force
 - o https://github.com/gwen001/vhost-brute

- Installation
- aptitude install php-curl
- git clone https://github.com/gwen001/vhost-brute.git
- Usage
 - o php vhost-brute.php --ip=\$ip --domain=target.com --wordlist=\$outfile
 - Other options:
 - --threads=5: Maximum threads (default 1)
 - --port: Set port
 - --ssl: Force SSL

Virtual-host-discovery

- Description
 - o vhosts brute-force
 - https://github.com/jobertabma/virtual-host-discovery
- Installation
 - o git clone https://github.com/jobertabma/virtual-host-discovery.git
- Usage
 - cd virtual-host-discover; ruby scan.rb --ip=1.1.1.1 --host=target.com --output output.txt
 - o Other options
 - --ssl=on: Enable SSL
 - --port 8080: Use a custom port
 - --wordlist wordlist.txt: Use a custom wordlist

Virustotal_subdomain_enum.py

- Description
 - o Query VirusTotal API for subdomains
 - o DNS aggregator
 - https://github.com/appsecco/the-art-of-subdomainenumeration/blob/master/virustotal_subdomain_enum.py
- Installation
 - o git clone https://github.com/appsecco/the-art-of-subdomain-enumeration.git
- Usage
 - python virustotal_subdomain_enum.py target.com 40