

Ethical Hacking and Countermeasures

theHarvester Cheat Sheet



theHarvester

Source: http://www.edge-securi-

the Harvester is a simple, powerful, and effective tool used in the early stages of a penetration test or red team engagement. It is also used for open-source intelligence (OSINT) gathering to help determine a company's external threat landscape. It can gather emails, names, subdomains, IPs, and URLs using multiple public data sources.

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2. the Harvester Passive Data Source

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- 4. the Harvester Commands

1. the Harvester Optionseral Filters

Syntax			
theharvester options			
Options			
-d	Domain to search or company name		
-b: data source	Baidu, bing, bingapi, dogpile, google, googleCSE, googleplus, google-profiles, LinkedIn, pgp, twitter, vhost, yahoo, all		
-s	Start in result number X (default: 0)		
-v	Verify hostname via DNS resolution and search for virtual hosts		
-f	Save the results into an HTML and XML file		
-n	Perform a DNS reverse query on all ranges discovered		
-с	Perform a DNS brute force for the domain name		
-t	Perform a DNS TLD expansion discovery		
-e	Use this DNS server		
-1	Limit the number of results to work with (bing goes from 50 to 50 results, google 100 to 100)		
-h	Use SHODAN database to query discovered hosts		

2. the Harvester Passive Data Source

Data Source	Description
baidu	Baidu search engine - www.baidu.com
bing	Microsoft search engine - www.bing.com
bingapi	Microsoft search engine, through the API
dnsdumpster	DNSdumpster search engine - https://dnsdumpster.com/
dogpile	Dogpile search engine - www.dogpile.com
duckduckgo	DuckDuckGo search engine - www.duckduckgo.com
Exalead	Meta search engine - www.exalead.com/search
duckduckgo	DuckDuckGo search engine - www.duckduckgo.com Meta search engine -

Data Source	Description
github-code	GitHub code search engine (Requires a GitHub Personal Access Token, see below.) - www.github.com
google	Google search engine - www.google.com Example: theharvester -d microsoft.com -l 500 -b google -h myresults.html
google-profiles	Google search engine, specific search for Google profiles
googleCSE	Hunter search engine (Requires an API key, see below.) - www.hunter.io
intelx	Intelx search engine (Requires an API key, see below.) - www.intelx.io
linkedin	Google search engine, specific search for LinkedIn users - www.linkedin.com Example: theharvester -d microsoft -l 200 -b linkedin
netcraft	Internet Security and Data Mining - www.netcraft.com
otx	AlienVault Open Threat Exchange - otx.alienvault.com
securityTrails	Security Trails search engine, the world's largest repository of historical DNS data - www.securitytrails.com
shodan	Shodan search engine will search for ports and banners from discovered hosts - www.shodanhq.com
Spyse	Web research tools for professionals - spyse.com
Suip	Web research tools that can take over 10 minutes to run, but worth the wait - suip.biz
threatcrowd	Open source threat intelligence - www.threatcrowd.org
trello	Search trello boards
twitter	Twitter accounts related to a specific domain
vhost	Bing virtual hosts search
virustotal	virustotal.com domain search
yahoo	Yahoo search engine
pgp	PGP key server - pgp.rediris.es Example: theharvester -d microsoft.com -b pgp

3. the Harvester Active Data Source

Data Source	Description
DNS brute force	Runs dictionary brute force enumeration
DNS reverse lookup	Reverse lookup of IP's discovered to find hostnames
DNS TDL expansion	TLD dictionary brute force enumeration

4. the Harvester Commands

Command	Description
theharvester -d microsoft.com -1 500 -b google	Perform passive scanning on the target domain (Microsoft.com) by limiting the results to 500 (-I 500) using Google (-b)
theharvester -d kali.org -1 500 -b google -f output.txt	The server requests the client do support these options
theHarvester.py -d google.com -c -b google	Perform active scanning and brute-forcing subdomains of the target domain (google.com) using option -c using Google (-b)