18CS3101 Ethical Hacking (Lab)

Ex. No. 2	Passive Reconnaissance (OSINT)
Date of	28/08/23
Exercise	28/08/23

Aim:

To gather information about targeted computers and networks without actively engaging with the systems.

Description:

dnstwist is a domain name permutation engine for detecting typosquatting, phishing and corporate espionage. dnstwist takes in your domain name as a seed, generates a list of potential phishing domains and then checks to see if they are registered.

DNS fuzzing is an automated workflow that aims to uncover potentially malicious domains that target your organization. This tool generates a comprehensive list of permutations based on a provided domain name, and subsequently verifies whether any of these permutations are in use.

- \$ dnstwist --dictionary dictionaries/english.dict domain.name
- \$ dnstwist --tld dictionaries/common_tlds.dict domain.name
- \$ dnstwist --fuzzers homoglyph,hyphenation domain.name

TheHarvester is a command-line tool included in Kali Linux that acts as a wrapper for a variety of search engines and is used to find email accounts, subdomain names, virtual hosts, open ports / banners, and employee names related to a domain from different public sources (such as search engines and PGP key servers).

usage: the Harvester [-h] -d DOMAIN [-l LIMIT] [-S START] [-p] [-s]

[--screenshot SCREENSHOT] [-v] [-e DNS_SERVER] [-t]

[-r [DNS_RESOLVE]] [-n] [-c] [-f FILENAME] [-b SOURCE]

Output:

DnsTwist

```
1)-[~]
   dnstwist google.com
                                        {20230509}
permutations: 100.00% of 3612 | found: 258 | eta: 0m 00s | speed: 8 qps
              google.com
                             142.250.205.238 2404:6800:4007:818::200e NS:ns1.go
ogle.com MX:smtp.google.com
              googlek.com
                             !ServFail !ServFail NS:!ServFail
                             107.161.23.204 NS:ns1.dnsowl.com
addition
              googlem.com
              googlew.com
                             107.161.23.204 NS:ns1.dnsowl.com
              googlez.com
                             13.248.169.48 NS:ns3.afternic.com MX:
                              142.250.196.164 2404:6800:4007:82c::2004 NS:ns1.go
              googlee.com
ogle.com MX:
              googlei.com
                             162.210.196.166 NS:ns1.quokkadns.com
```

```
root@kali: ~
File Edit View Search Terminal Help
              googl3.com
                             NS:ns24.domaincontrol.com MX:mailstore1.secureserv
              googl4.com
              googls.com
              googlw.com
                             NS:dns1.name-services.com MX:mx.googlw.com.cust.a.
              googlz.com
              googpe.com
                             NS:ns1.googledomains.com
              gopgle.com
              g.oogle.com
                             104.21.19.57 2606:4700:3032::ac43:b945
              goo.gle.com
                             13.248.169.48 NS:ns5.afternic.com MX:
              go.ogle.com
              goog.le.com
transposition ogogle.com
                             142.250.182.36 2404:6800:4007:823::2004 NS:ns1.goo
gle.com MX:
ransposition googel.com
                             142.250.195.132 2404:6800:4007:825::2004 NS:ns1.go
ogle.com MX:
ransposition gogole.com
                             142.250.196.4 2404:6800:4007:82a::2004 NS:ns1.goog
le.com MX:
                             142.250.77.100 2404:6800:4007:812::2004 NS:ns1.goo
gle.com MX:
              googlecom.com 142.250.205.228 2404:6800:4007:82d::2004 NS:ns1.go
ogle.com MX:
                             107 180 51 12 NS:ns25 domaincontrol
```

The Harvester:

```
[*] No IPs found.
[*] Emails found: 3

customersupport@tesla.com
resolutions@tesla.com
vulnerabilityreporting@tesla.com

[*] Hosts found: 7

digitalassets-secure.tesla.com:151.101.130.92, 151.101.2.92, 151.101.66.92, 1
51.101.194.92
ir.tesla.com:104.120.58.166
static-assets.tesla.com:104.120.58.166
www.tesla.com:104.120.58.166
x22ir.tesla.com
x22www.tesla.com
x22www.tesla.com
the companies of the companies
```

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```
aesparza@carminesnyc.com
dj@carminesnyc.com
j.smith@carminesnyc.com
john@carminesnyc.com
x22john@carminesnyc.com

[*] Hosts found: 3

www.carminesnyc.com:104.26.0.99, 104.26.1.99, 172.67.74.42
x22www.carminesnyc.com:67.227.199.194
```

Result:

Using Harvester and Dnstwist we have successfully found information of the targeted systems.