

Assignment 1

NTI – Ethical Hacking

Assignment 1 Report

Information gathering “reconnaissance”

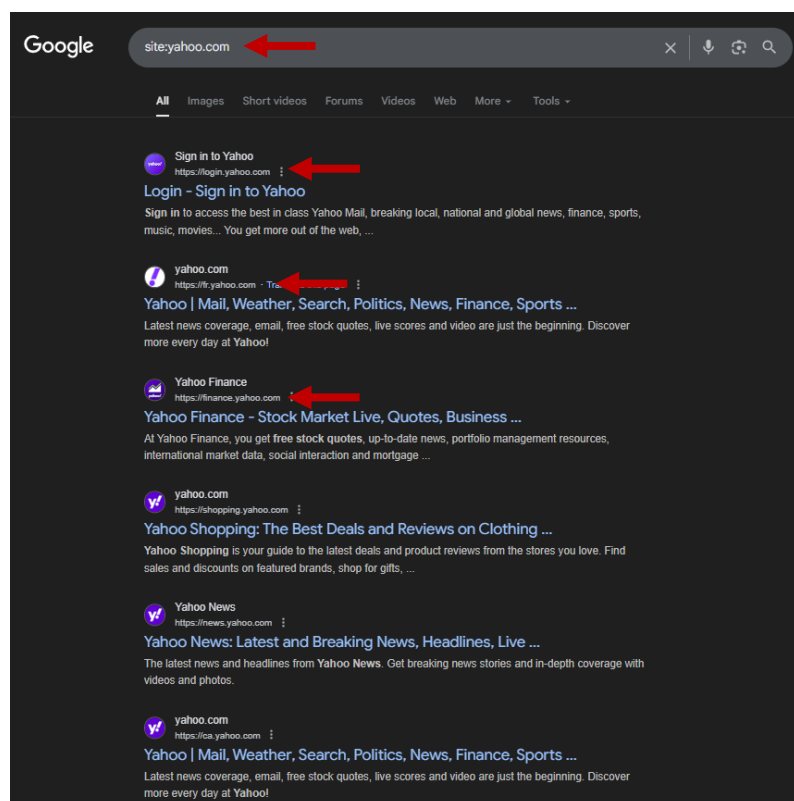
Prepared by:

Hadeer Amr

For my first task, I was required to select a target and conduct an information gathering phase. This involved identifying a suitable domain, applying reconnaissance techniques, and collecting relevant data to better understand the target’s structure and potential attack surface.

My Target was : yahoo.com and tools I have used : sublist3r, amass, theHarvester

Also I tried searching in google and I have found subdomains



Commands:

```
theHarvester -d yahoo.com -b urlscan -l 200 > urlscanYahoo.txt
```

```
theHarvester -d yahoo.com -b all -l 250 > theharvesterYahoo_Sub.txt
```

```
python3 sublist3r.py -d yahoo.com > Sublist3r_subs.txt
```

```
python3 sublist3r.py -d yahoo.com -e urlscan
```

```
amass enum -passive -d yahoo.com > amassyahoo.txt “most one takes time”
```

```
cat theharvesterYahoo_Sub.txt | sort -u > cleaned.txt
```

Assignment 1

Frist, I started with discovering the three tools using **-h** option

```

--help@kali:~$-
$ (thmraster -h
$ python3.py from /usr/share/wordlists/rockyou.txt
=====
theHarvester
=====
theHarvester 4.0.2
Code by Christian Martorella
C@ge-Security Research
cmartorella@ge-security.com

=====
Usage: theHarvester [-i] -d DOMAIN [-t] [-S START] [-p] [-r] [-m DNS_SERVER] [-i] [-r] [-d] [-f FILENAME] [-w WORDLIST] [-a] [-q] [-b SOURCE]

theHarvester is used to gather open source intelligence (OSINT) on a company or domain.

Options:
  -h, --help            show this help message and exit
  -i, --domain DOMAIN    Company name or domain to search.
  -t, --list LIMIT        Limit the number of search results, default=500.
  -S, --start START       Start with result number, default=1.
  -p, --proxies PROXIES    Use proxies for requests, enter proxies in proxies.yaml.
  -r, --rotate            Use Shodan to query discovered hosts.
  -m, --dns-server DNS_SERVER Take screenshots of resolved domains specify output directory. --screenshot output_directory
  -d, --virtual-host       Verify host name via DNS resolution and search for virtual hosts.
  -i, --dns-server DNS_SERVER DNS server to use for lookup.
  -l, --take-over          Check for takeovers.
  -r, --dns-resolve [DNS_RESOLVE] Perform DNS resolution on subdomains with a resolver list or passed in resolvers, default False.
  -u, --dns-lookup         Enable DNS server lookup, default False.
  -a, --dns-hosts          Perform a DNS brute-force on the domain.
  -f, --filename FILENAME   Save the results to an XML and JSON file.
  -w, --wordlist WORDLIST   Specify a wordlist for API endpoint scanning.
  -s, --api-scan            Scan for API endpoints.
  -u, --api-key            Suppress missing API key warnings.
  -b, --source SOURCE       Specify source of the wordlist:
  -b, --source SOURCE       baidu, baidu3, Bing, Bing3, brave, bufferoverflow, bulltwit, censis, cerspouter, criminalip, crtsh, dehashed, endpoints, duckduckgo, fullhunt, github-code, hackertarget, haveibeenpwned, hunter, hunterio,
  -b, --source SOURCE       intel, leaklookup, metasp, omgpe, ois, pentesttools, projectdiscovery, rapidms, rockettech, securityscorecard, securitytrails, shodan, sitedossier, subdomaincenter, subdomainfinder, cv, threatminer, tmb,
  -b, --source SOURCE       vuln, vulners, vintox, wotif, xray, xray2, xray3, xray4, xray5, xray6, xray7, xray8, xray9, xray10, xray11, xray12, xray13, xray14, xray15, xray16, xray17, xray18, xray19, xray20, xray21, xray22, xray23, xray24, xray25, xray26, xray27, xray28, xray29, xray30, xray31, xray32, xray33, xray34, xray35, xray36, xray37, xray38, xray39, xray40, xray41, xray42, xray43, xray44, xray45, xray46, xray47, xray48, xray49, xray50, xray51, xray52, xray53, xray54, xray55, xray56, xray57, xray58, xray59, xray60, xray61, xray62, xray63, xray64, xray65, xray66, xray67, xray68, xray69, xray70, xray71, xray72, xray73, xray74, xray75, xray76, xray77, xray78, xray79, xray80, xray81, xray82, xray83, xray84, xray85, xray86, xray87, xray88, xray89, xray90, xray91, xray92, xray93, xray94, xray95, xray96, xray97, xray98, xray99, xray100, xray101, xray102, xray103, xray104, xray105, xray106, xray107, xray108, xray109, xray110, xray111, xray112, xray113, xray114, xray115, xray116, xray117, xray118, xray119, xray120, xray121, xray122, xray123, xray124, xray125, xray126, xray127, xray128, xray129, xray130, xray131, xray132, xray133, xray134, xray135, xray136, xray137, xray138, xray139, xray140, xray141, xray142, xray143, xray144, xray145, xray146, xray147, xray148, xray149, xray150, xray151, xray152, xray153, xray154, xray155, xray156, xray157, xray158, xray159, xray160, xray161, xray162, xray163, xray164, xray165, xray166, xray167, xray168, xray169, xray170, xray171, xray172, xray173, xray174, xray175, xray176, xray177, xray178, xray179, xray180, xray181, xray182, xray183, xray184, xray185, xray186, xray187, xray188, xray189, xray190, xray191, xray192, xray193, xray194, xray195, xray196, xray197, xray198, xray199, xray200, xray201, xray202, xray203, xray204, xray205, xray206, xray207, xray208, xray209, xray210, xray211, xray212, xray213, xray214, xray215, xray216, xray217, xray218, xray219, xray220, xray221, xray222, xray223, xray224, xray225, xray226, xray227, xray228, xray229, xray230, xray231, xray232, xray233, xray234, xray235, xray236, xray237, xray238, xray239, xray240, xray241, xray242, xray243, xray244, xray245, xray246, xray247, xray248, xray249, xray250, xray251, xray252, xray253, xray254, xray255, xray256, xray257, xray258, xray259, xray260, xray261, xray262, xray263, xray264, xray265, xray266, xray267, xray268, xray269, xray270, xray271, xray272, xray273, xray274, xray275, xray276, xray277, xray278, xray279, xray280, xray281, xray282, xray283, xray284, xray285, xray286, xray287, xray288, xray289, xray290, xray291, xray292, xray293, xray294, xray295, xray296, xray297, xray298, xray299, xray300, xray301, xray302, xray303, xray304, xray305, xray306, xray307, xray308, xray309, xray310, xray311, xray312, xray313, xray314, xray315, xray316, xray317, xray318, xray319, xray320, xray321, xray322, xray323, xray324, xray325, xray326, xray327, xray328, xray329, xray330, xray331, xray332, xray333, xray334, xray335, xray336, xray337, xray338, xray339, xray340, xray341, xray342, xray343, xray344, xray345, xray346, xray347, xray348, xray349, xray350, xray351, xray352, xray353, xray354, xray355, xray356, xray357, xray358, xray359, xray360, xray361, xray362, xray363, xray364, xray365, xray366, xray367, xray368, xray369, xray370, xray371, xray372, xray373, xray374, xray375, xray376, xray377, xray378, xray379, xray380, xray381, xray382, xray383, xray384, xray385, xray386, xray387, xray388, xray389, xray390, xray391, xray392, xray393, xray394, xray395, xray396, xray397, xray398, xray399, xray400, xray401, xray402, xray403, xray404, xray405, xray406, xray407, xray408, xray409, xray410, xray411, xray412, xray413, xray414, xray415, xray416, xray417, xray418, xray419, xray420, xray421, xray422, xray423, xray424, xray425, xray426, xray427, xray428, xray429, xray430, xray431, xray432, xray433, xray434, xray435, xray436, xray437, xray438, xray439, xray440, xray441, xray442, xray443, xray444, xray445, xray446, xray447, xray448, xray449, xray450, xray451, xray452, xray453, xray454, xray455, xray456, xray457, xray458, xray459, xray460, xray461, xray462, xray463, xray464, xray465, xray466, xray467, xray468, xray469, xray470, xray471, xray472, xray473, xray474, xray475, xray476, xray477, xray478, xray479, xray480, xray481, xray482, xray483, xray484, xray485, xray486, xray487, xray488, xray489, xray490, xray491, xray492, xray493, xray494, xray495, xray496, xray497, xray498, xray499, xray500, xray501, xray502, xray503, xray504, xray505, xray506, xray507, xray508, xray509, xray510, xray511, xray512, xray513, xray514, xray515, xray516, xray517, xray518, xray519, xray520, xray521, xray522, xray523, xray524, xray525, xray526, xray527, xray528, xray529, xray530, xray531, xray532, xray533, xray534, xray535, xray536, xray537, xray538, xray539, xray540, xray541, xray542, xray543, xray544, xray545, xray546, xray547, xray548, xray549, xray550, xray551, xray552, xray553, xray554, xray555, xray556, xray557, xray558, xray559, xray560, xray561, xray562, xray563, xray564, xray565, xray566, xray567, xray568, xray569, xray570, xray571, xray572, xray573, xray574, xray575, xray576, xray577, xray578, xray579, xray580, xray581, xray582, xray583, xray584, xray585, xray586, xray587, xray588, xray589,
```

```
(venv)-(kali@kali) ~/Downloads/tools/Sublist3r
$ python3 sublist3r.py --help
/home/kali/.Downloads/tools/Sublist3r/sublist3r.py:78: SyntaxWarning: invalid escape sequence '\'
\ \ | | | | \ \ | | / _ _ | _ | \ \ | | '
/home/kali/.Downloads/tools/Sublist3r/sublist3r.py:286: SyntaxWarning: invalid escape sequence '\V'
link_regex = re.compile('<cite>?(.+?)</cite>')
/home/kali/.Downloads/tools/Sublist3r/sublist3r.py:343: SyntaxWarning: invalid escape sequence '\V'
link = re.sub('<(\/)??b>', '', link)
/home/kali/.Downloads/tools/Sublist3r/sublist3r.py:439: SyntaxWarning: invalid escape sequence '\V'
link = re.sub('<(\/)??strong|<span>?>{<>' , '', link)
/home/kali/.Downloads/tools/Sublist3r/sublist3r.py:687: SyntaxWarning: invalid escape sequence '\V'
l_regex = re.compile(' <a name= "hostanchor">?</a>#Host Records.>?<table>.*?(.*/?</table>)', re.S)
/home/kali/.Downloads/tools/Sublist3r/sublist3r.py:898: SyntaxWarning: invalid escape sequence '\V'
domain_check = re.compile("^(http|https)?([a-zA-Z0-9]+)([^\.\s])([a-zA-Z0-9]+\.[^a-zA-Z]{2,})$", re.S)
usage: sublist3r.py [-h] -d DOMAIN [-b [BRUTEFORCE]] [-p PORTS] [-v [VERBOSE]] [-t THREADS] [-e ENGINES] [-o OUTPUT] [-n]

OPTIONS:
  -h, --help            show this help message and exit
  -d, --domain DOMAIN   Domain name to enumerate it's subdomains
  -b, --bruteforce [BRUTEFORCE]
                        Enable the subbrute bruteforce module
  -p, --ports PORTS     Scan the found subdomains against specified tcp ports
  -v, --verbose [VERBOSE]
                        Enable Verbosity and display results in realtime
  -t, --threads THREADS
                        Number of threads to use for subbrute bruteforce
  -e, --engines ENGINES
                        Specify a comma-separated list of search engines
  -o, --output OUTPUT   Save the results to text file
  -n, --no-color        Output without color

Example: python sublist3r.py -d google.com

(venv)-(kali@kali) ~/Downloads/tools/Sublist3r
$
```

[illegible]

And those are my steps running the commands

```
--(kali@kali)-[~]
$ cat theharvesterYahoo_Sub.txt

Read proxies.yaml from /home/kali/.theHarvester/proxies.yaml
*****
|_| |_| ^|^|- - \/_/-v-|_| |_/_-|_*
|_| |_| _/_/_/_/_\|_|_| \|_/_/_/_|_*
|_|_|_|_|/_/_/\_\|\_|_| \|_/_/_/_|_*
\_||_|_|_|/_/_/\_\|\_|_| \|_/_/_/_|_*
    theHarvester 4.8.2                      *
Coded by Christian Martorella              *
Edge-Security Research                     *
cmartorella@edge-security.com             *
*****
[*] Target: yahoo.com
```

```
[kali@kali]~$ theHarvester -d yahoo.com -b all -l 250 > theharvesterYahoo_Sub.txt
2025-09-10 08:22:55,067 - api_endpoints - INFO - Starting API endpoint scan for yahoo.com
2025-09-10 08:22:55,067 - api_endpoints - WARNING - No endpoints found in wordlist: /usr/lib/python3/dist-packages/theHarvester/data/wordlists/api_endpoints.txt
2025-09-10 08:22:55,067 - api_endpoints - INFO - Detected schema for yahoo.com: http
2025-09-10 08:22:55,067 - api_endpoints - INFO - Prepared 242 endpoints to scan with concurrency 20
2025-09-10 08:22:55,069 - api_endpoints - INFO - API endpoint scan completed. Found 0 endpoints,
```

Assignment 1

```
(venv)-(kali@kali) [~/Downloads/tools/Sublist3r]
$ python sublist3r.py -d yahoo.com > Sublist3r_subs.txt

/home/kali/Downloads/tools/Sublist3r/sublist3r.py:78: SyntaxWarning: invalid escape sequence '\_'.
\_ \_ | | | | '. \_ | / \_ | _ | \_ | |
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:286: SyntaxWarning: invalid escape sequence '\V'
link_regex = re.compile('<cite.*?>(.*?)</cite>')
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:343: SyntaxWarning: invalid escape sequence '\V'
link = re.sub('<(\V)?b>', '', link)
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:439: SyntaxWarning: invalid escape sequence '\V'
link = re.sub('<(\V)?strong>|<span.*?>|<div.*?>', '', link)
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:658: SyntaxWarning: invalid escape sequence '\V'
tbl_regex = re.compile('<a name="hostname"></a>Host Records.*?<table.*?></table>', re.S)
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:898: SyntaxWarning: invalid escape sequence '\_'
domain_check = re.compile("(http|https)?[a-zA-Z0-9]+([\_\.\.]{1}[a-zA-Z0-9]+)+\.[a-zA-Z]{2,*}")
Process DNSDumpster-8:
Traceback (most recent call last):
  File "/usr/lib/python3.13/multiprocessing/process.py", line 313, in _bootstrap
    self.run()
    ~~~~~^~
File "/home/kali/Downloads/tools/Sublist3r/sublist3r.py", line 268, in run
    domain_list = self.enumerate()
File "/home/kali/Downloads/tools/Sublist3r/sublist3r.py", line 647, in enumerate
    token = self.get_csrf_token(resp)
File "/home/kali/Downloads/tools/Sublist3r/sublist3r.py", line 641, in get_csrf_token
    token = csrf_regex.findall(resp)[0]
           ~~~~~^~
IndexError: list index out of range
```

```

      _____
     /         \    _   _   ____ 
    /           \  |___|_|_||__ \|
   /             \ |___|_|_||__ \|
  /               \|___|_|_||__ \|
 /                 \|___|_|_||__ \|
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\                     ___|___|_||__ \|
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  \                     ___|___|_||__ \|
   \                     ___|___|_||__ \|
    \                     ___|___|_||__ \|
     \                     ___|___|_||__ \|
      \_____/_|_|_|_||__ \|

# Coded By Ahmed About-Ela - Babou3Ja

[~] Enumerating subdomains now for yahoo.com
[~] Searching now in Baidu...
[~] Searching now in Yahoo...
[~] Searching now in Google..
[~] Searching now in Bing ..
[~] Searching now in Ask ...
[~] Searching now in Netcraft..
[~] Searching now in DNSdumpster..
[~] Searching now in Virustotal..
[~] Searching now in ThreatCrowd..
[~] Searching now in SSL Certificates..
[~] Searching now in PassiveDNS..
[!] Error: Virustotal probably now is blocking our requests
Process DNSDumpster-8
Traceback (most recent call last):
  File "/usr/lib/python3.13/multiprocessing/process.py", line 313, in _bootstrap
    self.run()
    ~~~~~^~~~~
  File "/home/kali/Downloads/tools/Sublist3r/sublist3r.py", line 268, in run
    domain_list = self.enumerate()
  File "/home/kali/Downloads/tools/Sublist3r/sublist3r.py", line 647, in enumerate
    token = self.get_csrf_token(resp)
            ^^^^^^^^^^^^^^^^^^^
  File "/home/kali/Downloads/tools/Sublist3r/sublist3r.py", line 641, in get_csrf_token
    token = csrf_regex.findall(resp)[0]
            ~~~~~^~~~~
IndexError: list index out of range

[?] Error: Google probably now is blocking our requests
[?] Finished now the Google Enumeration ...
[+] Total Unique Subdomains Found: 200
www.yahoo.com
fr.aide.yahoo.com
it.sistto.yahoo.com
currently.att.yahoo.com
au.yahoo.com
autos.yahoo.com
tw.bid.yahoo.com
tv.buv.yahoo.com
```

```
(kali@kali) [~]
$ grep FQDN amassyahoo.txt
yahoo.com (FQDN) → mx_record → mta5.am0.yahoodns.net (FQDN)
yahoo.com (FQDN) → mx_record → mta6.am0.yahoodns.net (FQDN)
yahoo.com (FQDN) → mx_record → mta7.am0.yahoodns.net (FQDN)
yahoo.com (FQDN) → ns_record → ns2.yahoo.com (FQDN)
yahoo.com (FQDN) → ns_record → ns4.yahoo.com (FQDN)
yahoo.com (FQDN) → ns_record → ns5.yahoo.com (FQDN)
yahoo.com (FQDN) → ns_record → ns3.yahoo.com (FQDN)
yahoo.com (FQDN) → ns_record → ns1.yahoo.com (FQDN)
rc.yahoo.com (FQDN) → cname_record → global-accelerator.dns-rc.aws.oath.cloud (FQDN)
tor170-264-pda.gq1.yahoo.com (FQDN) → cname_record → lo0.tor170-264-pda.gq1.yahoo.com (FQDN)
media-router-fp1.prod.media.yahoo.com (FQDN) → cname_record → atsv2-fp.wg1.b.yahoo.com (FQDN)
r.search.yahoo.com (FQDN) → cname_record → ds-global3.l7.search.ystg1.b.yahoo.com (FQDN)
shopping.yahoo.com (FQDN) → cname_record → oob-intl-router.g03.yahoodns.net (FQDN)
mage.search.yahoo.com (FQDN) → cname_record → ds-global3.l7.search.ystg1.b.yahoo.com (FQDN)
sg-finance.yahoo.com (FQDN) → cname_record → ds-global3.l7.search.ystg1.b.yahoo.com (FQDN)
sg-finance.yahoo.com (FQDN) → cname_record → edge.gycpi.b.yahoodns.net (FQDN)
bf1.yahoo.com (FQDN) → ns_record → ns3.yahoo.com (FQDN)
bf1.yahoo.com (FQDN) → ns_record → ns1.yahoo.com (FQDN)
bf1.yahoo.com (FQDN) → ns_record → ns4.yahoo.com (FQDN)
```

```
[kali@kali]-[~]
└─$ theHarvester -d yahoo.com -b urlscan -l 200
Read proxies.yaml from /home/kali/.theHarvester/proxies.yaml
*****
*
*                                     *
*   The Harvester                   *
*                                     *
*
* theHarvester 4.8.2                 *
* Coded by Christian Martorella      *
* Edge-Security Research             *
* cmartorella@edge-security.com     *
*
*****

[*] Target: yahoo.com

[*] Searching Urlscan.

[*] ASNS found: 19

AS13335
AS14618
AS15689
AS156625
AS203220
AS20940
AS27611
AS24940
AS2497
AS26101
AS2635
AS30148
AS36982
AS47583
AS54113
AS6354
AS63949
AS7532
AS9924

[*] Interesting Urls found: 2
```

```
(kali㉿kali)-[~]
$ amass enum -passive -d yahoo.com > amassyahoo.txt
```

Amass tool gave me a lot of information but was not organized and I found some duplicates to make it more easier I searched for script to automate the sorting and organizing and I used this one to gave me excel sheet and I attached it in the link that contain my findings in this stage

```
(kali㉿kali)-[~]  
$ nano parse_dns.sh
```

Assignment 1

```
GNU nano 8.2 parse_dns.sh
#!/bin/bash
input="amassyahoo.txt"
output="dns_records.csv"

# Write CSV header
echo "Record Type,Domain,Target" > "$output"

# Parse lines
awk -F' ' -> '{
    domain=$1
    record=$2
    target=$3
    gsub(/\(FQDN\)/,"",domain)
    gsub(/\(FQDN\)/,"",target)
    gsub(/ /,"",record)
    gsub(/\^ +| +$/,"",domain)
    gsub(/\^ +| +$/,"",target)
    print record "," domain "," target
}' "$input" >> "$output"

echo "[+] Done! Saved to $output"
```

```
(kali@kali)-[~]
$ chmod 777 parse_dns.sh

(kali@kali)-[~]
$ ./parse_dns.sh
[+] Done! Saved to dns_records.csv
```

1	Record Type	Domain	Target
2	mx_record	yahoo.com	mta5.am0.yahoodns.net
3	mx_record	yahoo.com	mta6.am0.yahoodns.net
4	mx_record	yahoo.com	mta7.am0.yahoodns.net
5	ns_record	yahoo.com	ns2.yahoo.com
6	ns_record	yahoo.com	ns4.yahoo.com
7	ns_record	yahoo.com	ns5.yahoo.com
8	ns_record	yahoo.com	ns3.yahoo.com
9	ns_record	yahoo.com	ns1.yahoo.com
10	cname_record	rc.yahoo.com	global-accelerator.dns-rc.aws.oath.cloud
11	cname_record	tor170-264-pda.gq1.yahoo.com	lo0.tor170-264-pda.gq1.yahoo.com
12	cname_record	media-router-fp1.prod.media.yahoo.com	atsv2-fp.wg1.b.yahoo.com
13	cname_record	r.search.yahoo.com	ds-global3.l7.search.ystg1.b.yahoo.com
14	cname_record	shopping.yahoo.com	oob-intl-router.g03.yahoodns.net

The reconnaissance uncovered a wide range of Yahoo's digital footprint information I have found Subdomains & FQDNs (over 200 entries via Sublist3r and Amass), PTR Records (reverse DNS mappings), Email Infrastructure (mail server hosts), IPv4 and IPv6 Addresses, Netblocks & ASNs (infrastructure ownership and ranges), Emails (4 public addresses via theHarvester)

I utilized three tools Sublist3r, Amass, and theHarvester to enumerate Yahoo's public-facing infrastructure and gather OSINT data. The results are summarized as follows:

Using Sublist3r it Successfully enumerated 200+ subdomains associated with yahoo.com and these subdomains represent different parts of Yahoo's infrastructure (mail servers, CDN nodes, internal naming conventions, etc.).

And using Amass provided deeper enumeration and infrastructure mapping, including: FQDNs (Fully Qualified Domain Names) examples include oxy-oxygen-2001-4998-44-803f-1184.ne1.yahoo.com and 218.43.30.72.in-addr.arpa (reverse DNS format) and PTR Records (Pointer Records): Mapping IPs back to hostnames example 218.43.30.72.in-addr.arpa → unknown.yahoo.com and Subdomains: Examples include loo.tor394-300-pda.bf1.yahoo.com and sonic312-7.consmr.mail.ir2.yahoo.com and Email-related Hosts: Such as sonic312-7.consmr.mail.ir2.yahoo.com (part of Yahoo Mail servers) and IPv4 and IPv6 addresses as IPv4: 72.30.30.237, 216.155.192.212 and IPv6: 2001:4998:ef99:209::2019 and Netblocks (IP Ranges): Examples include 72.30.0.0/19 and 2001:4998::/32 and ASNs Identified Autonomous System Numbers related to Yahoo infrastructure.

And finally using theHarvester I Collected 4 public email addresses linked to yahoo.com and unfortunately No employee names or LinkedIn profiles were discovered limited internal data exposure from this tool.

This information provides a comprehensive view of Yahoo's external attack surface and forms the baseline for further vulnerability assessment.

<https://drive.google.com/drive/folders/1TKoyzk-3jfsYPuZfYQEvvPrXrRStWs8W?usp=sharing>

```
(kali㉿kali)-[~]
$ theHarvester -d yahoo.com -b leaklookup -l 200
Read proxies.yaml from /home/kali/.theHarvester/proxies.yaml
*****
 *
 * [REDACTED]
 * [REDACTED]
 * [REDACTED]
 * [REDACTED]
 * [REDACTED]
 *
 * theHarvester 4.8.2
 * Coded by Christian Martorella
 * Edge-Security Research
 * cmartorella@edge-security.com
 * [REDACTED]
 *****

[*] Target: yahoo.com

Read api-keys.yaml from /home/kali/.theHarvester/api-keys.yaml
An exception has occurred in LeakLookup search: 'leaklookup'

[*] No IPs found.


[*] No emails found.

[*] No people found.

[*] No hosts found.
```

```
(venv)-(kali@kali)-[~/Downloads/tools/Sublist3r]
$ python3 sublist3r.py -d yahoo.com -e urlscan

/home/kali/Downloads/tools/Sublist3r/sublist3r.py:78: SyntaxWarning: invalid escape sequence '\_\'
\_ \_ \| | | | \_ \| | / \_ | \_ | | \_ | |
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:286: SyntaxWarning: invalid escape sequence '\\'
link_regex = re.compile('<cite.*?>(.*?)</cite>')
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:343: SyntaxWarning: invalid escape sequence '\\'
link = re.sub("<(\\/?b>", "", link)
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:439: SyntaxWarning: invalid escape sequence '\\'
link = re.sub('<(\\/?strong|<span.*?|<b>', '', link)
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:658: SyntaxWarning: invalid escape sequence '\\'
tbl_regex = re.compile('<a name="hostanchor"></a>Host Records.*?<table.*?(.*)?</table>', re.S)
/home/kali/Downloads/tools/Sublist3r/sublist3r.py:898: SyntaxWarning: invalid escape sequence '\-'
domain_check = re.compile("^(http|https)?[a-zA-Z0-9]+([-\.\_]{1}[a-zA-Z0-9]+)*\.[a-zA-Z]{2,$}")
```



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```
[~] Enumerating subdomains now for yahoo.com
```

```
import csv

input_file = "dns_records.csv"
output_file = "dns_records_unique.csv"

seen = set()
with open(input_file, "r") as infile, open(output_file, "w", newline="") as outfile:
    reader = csv.reader(infile)
    writer = csv.writer(outfile)
    header = next(reader)
    writer.writerow(header)

    for row in reader:
        key = tuple(row) # or row[1:] to ignore record type
        if key not in seen:
            seen.add(key)
            writer.writerow(row)

print(f"[+] Cleaned results saved to {output_file}")
```

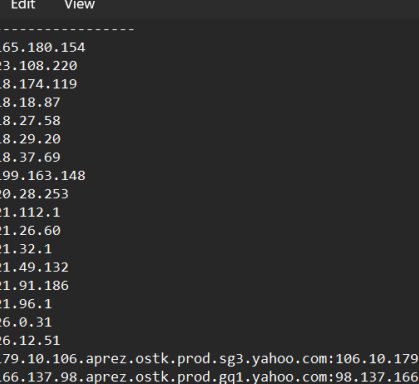

Assignment 1

or use this `awk -F',' '!seen[$2]++' dns_records.csv > cleaned.csv` also I can use feature in excel to remove the duplicates and I can gather all the information from different tools and engines and but in one file then perform the cleaning to make results clearer.

```
(kali㉿kali)-[~]
$ cat theharvesterYahoo_Sub.txt | sort -u > cleaned.txt

(kali㉿kali)-[~]
$ awk -F',' '!seen[$2]++' dns_records.csv > cleanedamassresult.csv
```

Record Type	Domain	Target
mx_record	yahoo.com	mta5.am0.yahoodns.net
cname_record	rc.yahoo.com	global-accelerator.dns-rc.aws.oath.cloud
cname_record	tor170-264-pda.gq1.yahoo.com	lo0.tor170-264-pda.gq1.yahoo.com
cname_record	media-router-fp1.prod.media.yahoo.com	atsv2-fp.wg1.b.yahoo.com
cname_record	r.search.yahoo.com	ds-global3.i7.search.ystg1.b.yahoo.com
cname_record	shopping.yahoo.com	oob-intl-router.g03.yahoodns.net
cname_record	mage.search.yahoo.com	ds-global3.i7.search.ystg1.b.yahoo.com
cname_record	search.yahoo.com	ds-global3.i7.search.ystg1.b.yahoo.com
cname_record	sg.finance.yahoo.com	edge.gycpi.b.yahoodns.net
ns_record	bf1.yahoo.com	ns3.yahoo.com
cname_record	tor27-100-pda.bf1.yahoo.com	lo0.tor27-100-pda.bf1.yahoo.com
cname_record	tw.search.mall.yahoo.com	rc.yahoo.com
cname_record	fr-ca.actualites.yahoo.com	rc.yahoo.com
cname_record	tor38-54-pdb.sg3.yahoo.com	lo0.tor38-54-pdb.sg3.yahoo.com
cname_record	tor203-45-pdc.bf1.yahoo.com	lo0.tor203-45-pdc.bf1.yahoo.com
ns_record	sg3.yahoo.com	ns4.yahoo.com
cname_record	maktoob.ac2.qa.search.yahoo.com	release.i7.search.yahoo.com
cname_record	sar2.spv.yahoo.com	eth-1-1-p8.sar2.spv.yahoo.com
ns_record	spv.yahoo.com	ns4.yahoo.com



The screenshot shows a terminal window with a dark background. The title bar at the top indicates the file being edited is "cleaned.txt". The terminal content consists of a list of IP addresses and domain names, some of which are grouped by a dashed line. The list includes:

- 102.165.180.154
- 103.23.108.220
- 104.18.174.119
- 104.18.18.87
- 104.18.27.58
- 104.18.29.20
- 104.18.37.69
- 104.199.163.148
- 104.20.28.253
- 104.21.112.1
- 104.21.26.60
- 104.21.32.1
- 104.21.49.132
- 104.21.91.186
- 104.21.96.1
- 104.26.0.31
- 104.26.12.51
- 106.179.10.106.aprez.ostk.prod.sg3.yahoo.com:106.10.179.106
- 107.166.137.98.aprez.ostk.prod.gq1.yahoo.com:98.137.166.107
- 10.ras.yahoo.com
- 10-vl-120.amb.yahoo.com:87.248.117.2
- 112.121.100.235

Based on the data I have found an attacker can use some of this data in phishing or social engineering attacks as the four e-mails I have found using theHarvester and the Email-related Hosts I found using amass tool or he could find LinkedIn of employees could help in getting more information to use in phishing or social engineering attacks or any attacks related to what he could found also based on the subdomain he can perform some searching to find vulnerabilities and got more access

To sum up what I have learned from this task I have learned that using different tools in reconnaissance is very important because each one shows different parts of the target. For example, Sublist3r was very good at finding many subdomains quickly, Amass gave me a deeper view of the infrastructure, and theHarvester helped with OSINT, like e-mails. I also learned that some data was repeated across the tools, but this was useful because it confirmed the information and made it more reliable. At the same time, I found unique results that only one tool was able to discover. Through this task, I understood better how domains, subdomains, FQDNs, PTR records, and netblocks are all connected, and how they reveal the structure of a company's online presence. Even though theHarvester gave me only four emails and no employee names, I realized that even a small amount of data can still be used in attacks like phishing.

Another thing I noticed is how big companies like Yahoo manage very complex infrastructures. I found more than 200 subdomains, and this showed me the importance of organizing and cleaning the data so it can be used effectively.

Finally, this task gave me a strong foundation for the next steps in penetration testing, such as vulnerability scanning and exploring the attack surface in more detail.

Disclaimer

This report is for educational purposes only.