# Welcome to Cyber Security Training

## Footprinting Concepts

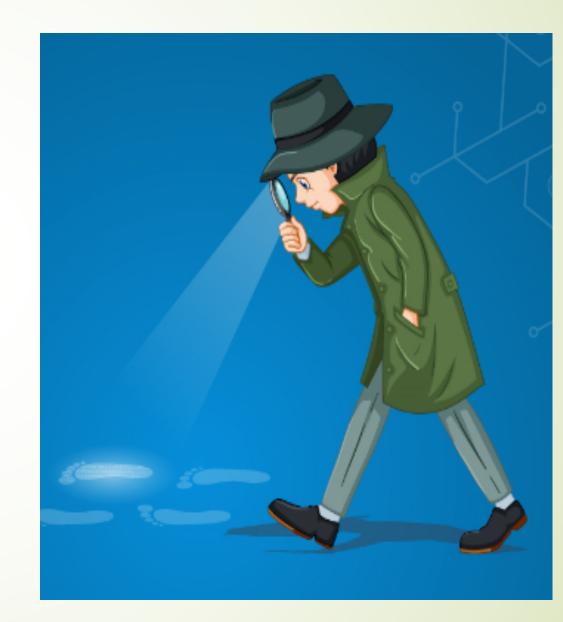
#### **Objectives of Footprinting**

The major objectives of Footprinting are:

- 1. To know security posture
- 2. To reduce focus area
- 3. Identify vulnerabilities
- 4. Draw network map

#### Footprinting Methodology

- Footprinting through Search Engines
- Footprinting through Advance Google Hacking Techniques
- Footprinting through Social Networking Sites
- Footprinting through Websites
- Footprinting through Email
- Footprinting through Competitive Intelligence
- Footprinting through WHOIS
- Footprinting through DNS
- Footprinting through Network
- Footprinting through Social Engineering



## People Search Online Services

There are some online services, popularly used to identify the Phones numbers, Addresses, and People.

Some of these websites include:

www.privateeye.com

www.publicbackgroundchecks.com

www.anywho.com

www.intelius.com

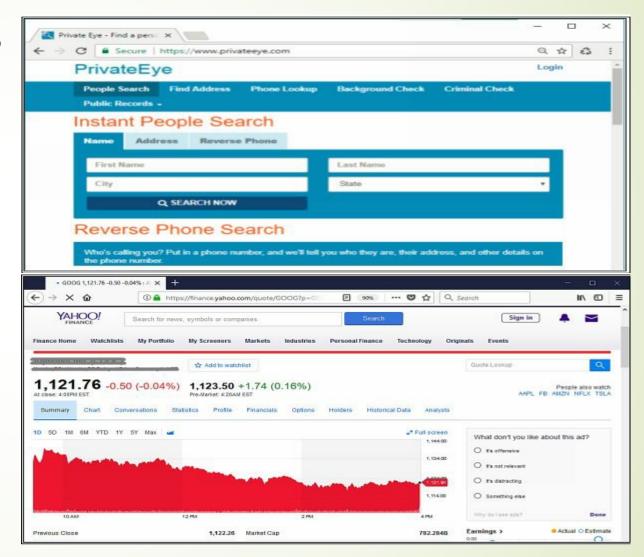
www.4111.com

www.peoplefinders.com

#### Gather Information from Financial Services:

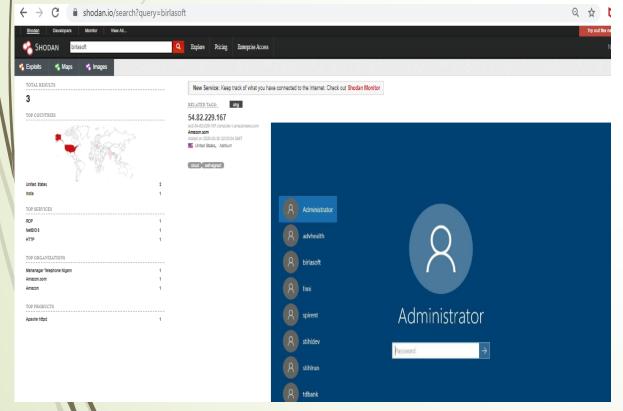
www.google.com/finance finance.yahoo.com

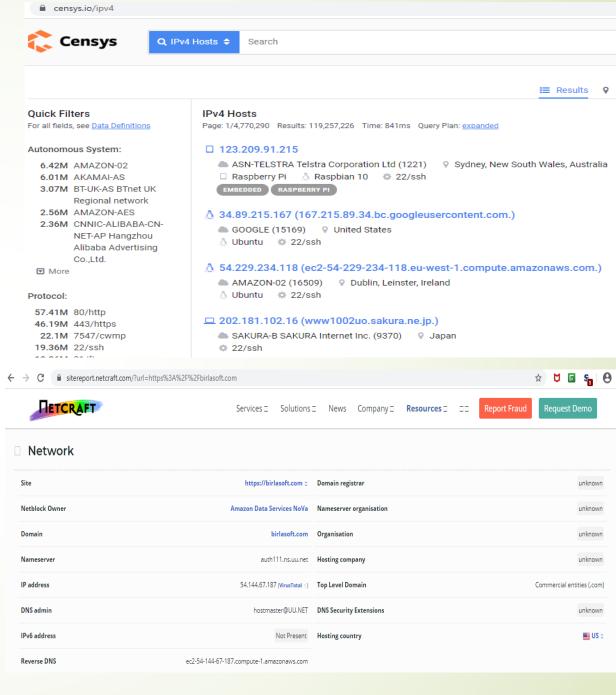
Footprinting using Advanced Google Hacking Techniques



# Website Footprinting

netcraft.com Shodan.io censys.io





## **DNS** Footprinting

There are a lot of online tools available for DNS lookup information, some of them are listed below:

#### https://dnsdumpster.com/

http://network-tools.com

http://www.kloth.net

http://www.mydnstools.info

http://www.nirsoft.net

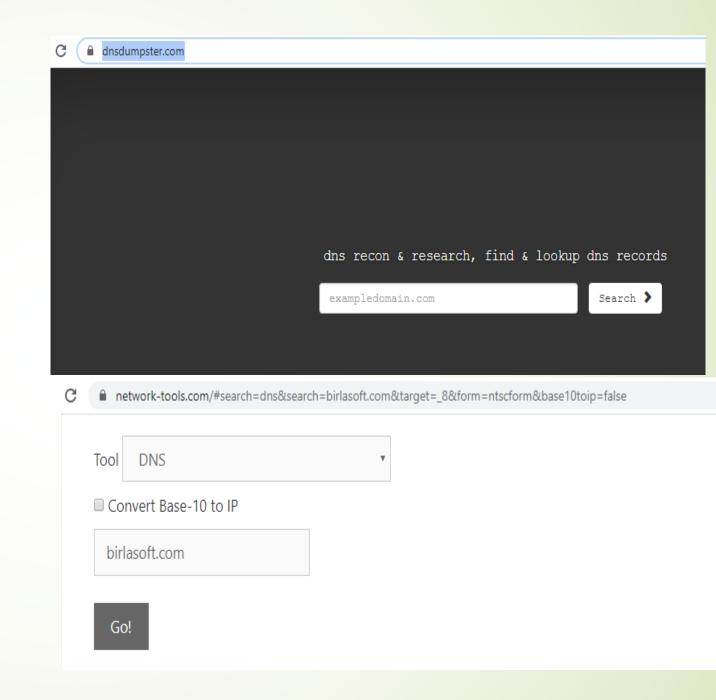
http://www.dnswatch.info

http://www.domaintools.com

http://www.dnsqueries.com

http://www.ultratools.com

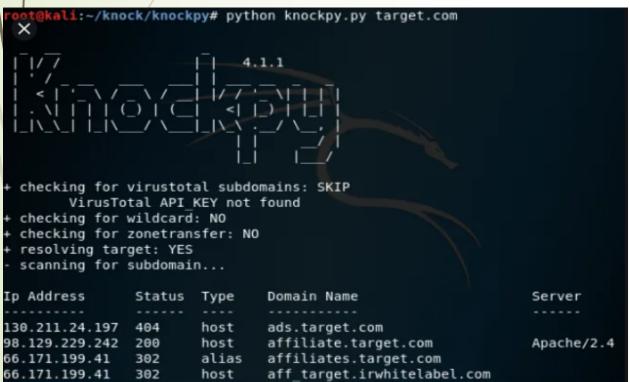
http://www.webmaster-toolkit.com



### Sub Domain Enumeration

Knock.py

Knock.py website.com



```
checking for virustotal subdomains: YES
   "a.ns.hackerone.com",
   "b.ns.hackerone.com",
   "api.hackerone.com",
   "links.hackerone.com".
   "support.hackerone.com",
   "info.hackerone.com",
   "www.hackerone.com"
 checking for wildcard: NO
 checking for zonetransfer: NO
 resolving target: YES
 scaning for subdomain...
p Address
               Status Type
                               Domain Name
                                                                Server
62.159.0.31
                               a.ns.hackerone.com
                       host
04.16.99.52
                       host
                               api.hackerone.com
                                                                cloudflare-nginx
               301
104.16.100.52
               301
                       host
                               api.hackerone.com
                                                                cloudflare-nginx
62.159.1.31
                               b.ns.hackerone.com
                       host
04.16.12.26
                       host
                               support.hackerone.com
                                                                cloudflare-nginx
               301
04.16.13.26
               301
                               support.hackerone.com
                                                                cloudflare-nginx
                       host
04.16.99.52
               301
                       host
                               www.hackerone.com
                                                                cloudflare-nginx
04.16.100.52
               301
                               www.hackerone.com
                                                                cloudflare-nginx
                       host
```

#### Sub Domain Enumeration - Dnsenum

```
root@kali:~# dnsenum --enum google.com
dnsenum.pl VERSION:1.2.3
Host's addresses:
google.com.
                                                     IN
                                                                     74.125.130.100
                                           62
                                           62
                                                     ΙN
                                                                     74.125.130.101
google.com.
google.com.
                                           62
                                                     ΙN
                                                                     74.125.130.102
                                           62
                                                     ΙN
                                                                     74.125.130.113
google.com.
google.com.
                                           62
                                                     IN
                                                                     74.125.130.138
google.com.
                                           62
                                                     ΙN
                                                                     74.125.130.139
Name Servers:
ns1.google.com.
                                           343227
                                                     ΙN
                                                                     216.239.32.10
                                                                     216.239.34.10
216.239.36.10
ns2.google.com.
                                                     ΙN
                                           343227
ns3.google.com.
                                           343227
                                                     ΙN
                                                                     216, 239, 38, 10
ns4.google.com.
                                                     IN
                                           343227
Mail (MX) Servers:
aspmx.l.google.com.
                                                                     74.125.129.27
                                           17
                                                     IN
alt1.aspmx.l.google.com.
                                           38
                                                     ΙN
                                                                     74.125.142.26
alt3.aspmx.l.google.com.
                                                     IN
                                           178
                                                                     173.194.68.27
alt4.aspmx.l.google.com.
                                           163
                                                     ΙN
                                                                     74.125.131.27
alt2.aspmx.l.google.com.
                                           293
                                                     ΙN
                                                                     74.125.137.27
```

## Sub Domain Enumeration - Dmitry

Dmitry –wnspb target.com

```
root@kali:~# dmitry -w facebook.com
Deepmagic Information Gathering Tool
"There be some deep magic going on"
HostIP:31.13.79.35
HostName: facebook.com
Gathered Inic-whois information for facebook.com
   Domain Name: FACEBOOK.COM
   Registry Domain ID: 2320948 DOMAIN COM-VRSN
   Registrar WHOIS Server: whois.registrarsafe.com
   Registrar URL: http://www.registrarsafe.com
   Updated Date: 2019-10-17T18:52:06Z
   Creation Date: 1997-03-29T05:00:00Z
   Registry Expiry Date: 2028-03-30T04:00:00Z
   Registrar: RegistrarSafe, LLC
   Registrar IANA ID: 3237
   Registrar Abuse Contact Email: abusecomplaints@registrarsafe.com
   Registrar Abuse Contact Phone: +1-650-308-7004
us: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
   Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibit
ed
   Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
   Domain Status: serverDeleteProhibited https://icann.org/epp#serverDeleteProhibited
   Domain Status: serverTransferProhibited https://icann.org/enp#serverTransferProhibit
```