

Lab 3 – Network Information Gathering

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Introduction

In this lab, get familiar with OSINT techniques, websites that can be utilized as well as automated tools which can be utilized to perform OSINT.

Pre-Lab

For this lab, you will require Kali Linux and Wireshark

Practical

1. OSINT Collection

1. Open a browser and go to: <http://www.netcraft.com>. In the “what’s that site running box”, type, www.umbc.edu. Note the IP Address, Operating System, and version of the Web server Software

IP Address - 23.185.0.4

IPv6 Address - 2620:12a:8001:0:0:0:0:4

Operating System – Linux

Webserver – nginx

2. Get DNS Records for UMBC by browsing <http://www.robtex.com/dns/www.umbc.edu>

robtex.com/dns-lookup/www.umbc.edu

SHARED

This section shows related hostnames and ipnumbers

Using as CNAME	Using as PTR
novell1.umbc.edu	130.85.12.11
novell2.umbc.edu	130.85.12.160
2 results shown.	130.85.12.163
	3 results shown.

Siblings

Siblings are domains or hostnames on the same level, under the same parent level. Not necessarily related in any other way

- bussys.umbc.edu
- comm-printer1.umbc.edu
- dnsinternal1.umbc.edu
- his10.umbc.edu
- mp210pc-02.umbc.edu
- pah.umbc.edu
- sdxmd1.umbc.edu
- ucslab.umbc.edu
- virthost-v1.umbc.edu
- www4.umbc.edu

10 results shown.

On other TLD:s and domains

This sub section shows this name on other top level domains.

- umbc.edu

1 results shown.

robtex.com/dns-lookup/www.umbc.edu

QUICK INFO

Quick summary of the host name

www.umbc.edu quick info

General	
FQDN	www.umbc.edu
Host Name	www
Domain Name	umbc.edu
Registry	edu
TLD	edu
Domain DNS	
Name servers	dnsexternal.umbc.edu dnsexternal1.umbc.edu dnsexternal2.umbc.edu
Mail servers	mxin.umbc.edu
IP Numbers	130.85.12.160

3. Get the whois information by checking: <http://www.whois.net/whois/umbc.edu> or using <http://centralops.net/co>

whois.com/whois/umbc.edu	
Domain Name:	UMBC.EDU
Registrant:	University of Maryland Baltimore County (UMBC-DOM) UMBC Division of Information Technology 1000 Hilltop Circle / Engineering 125 Baltimore, MD 21250 USA
Administrative Contact:	John Suess UMBC Division of Information Technology Engineering 125 1000 Hilltop Circle Baltimore, MD 21250 USA +1.4104552582 whois-admin@umbc.edu
Technical Contact:	Ray Soellner UMBC Division of Information Technology Engineering 125 1000 Hilltop Circle Baltimore, MD 21250 USA +1.4104553256 whois-technical@umbc.edu
Name Servers:	DNSEXTERNAL1.UMBC.EDU DNSEXTERNAL.UMBC.EDU DNSEXTERNAL2.UMBC.EDU
Domain record activated:	12-Aug-1988
Domain record last updated:	11-Jan-2023
Domain expires:	31-Jul-2024

4. Google “UMBC network jobs” and look for details concerning technologies used within the college

After searching “UMBC network jobs” I saw seen few of the technologies used within the university such as AWS IaaS architecture, DevOps, Oracle Database, RDS/ EC2 instance, Docker, ECS environment, SQL, Azure, GCP, Informatica, weblogic, Tuxedo, Peoplesoft patches

5. Try using <https://viewdns.info> to gather the same information within their "One Stop Shopping" website






- I am able to find more details using viewdns.info such as below
DNS nameservers - dnsexternal1.umbc.edu.
dnsexternal.umbc.edu
dnsexternal2.umbc.edu
- Primary nameserver: umbc10.umbc.edu.
- Hostmaster E-mail address: HOSTMASTER.UMBC.EDU
- MX record: mxin.umbc.edu
- WWW record: www.UMBC.EDU. A 23.185.0.4

viewdns.info/dnsreport/?domain=umbc.edu


Tryhackme Blackboard Reports... International Stude... Hacking CyberDaily News general - WiCyS+IS... apa format Badges - Credly

DNS Report for umbc.edu

Parent Nameserver Tests

Status	Test Case	Information
	NS records listed at parent servers	Nameserver records returned by the parent servers are: dnsexternal1.umbc.edu. [130.85.1.9] [TTL=172800] dnsexternal.umbc.edu. [130.85.1.6] [TTL=172800] dnsexternal2.umbc.edu. [130.85.1.11] [TTL=172800] This information was kindly provided by i.edu-servers.net.
	Domain listed at parent servers	Good! The parent servers have information on your domain. Some other domains (like .co.us) do not have a DNS zone at the parent servers.
	NS records listed at parent servers	Good! The parent servers have your NS records listed. If they didn't, people wouldn't be able to find your domain!
	Parent servers return glue	Good! The TLD of your domain (edu) matches the TLD of your nameservers (edu) and hence the parent servers MUST return the IP (glue) for your NS records... AND THEY DO!
	A record for each NS at parent	Good! The parent servers have A records for each of your nameservers.

Local Nameserver Tests

Status	Test Case	Information
	NS records at your local servers	NS records retrieved from your local nameservers were: dnsexternal.umbc.edu. [NO GLUE] [TTL=86400] dnsexternal1.umbc.edu. [NO GLUE] [TTL=86400]

✓	Glue at local nameservers	Good! Your local nameservers send the IP address (glue) along with your NS records.
✗	Same glue at local and parent servers	Oops! The IP addresses (GLUE) returned for your nameserver don't match! You should closely observe the nameserver details above and identify where the differences lie.
✓	Same NS records at each local nameserver	Good! All your local nameservers have identical NS records for your domain.
✓	Check that all nameservers respond	Good! All of your nameservers listed at the parent servers responded.
✓	Check all nameservers are valid	Good! All of your nameservers appear to be valid (e.g. are not IP addresses or partial domain names)
✓	Number of nameservers	Good! You have at least 2 nameservers. Whilst RFC218 section 2.5 specifies a minimum of 3, as long as you have 2 or more, you should be ok!
✓	Local nameservers answer authoritatively	Good! All your nameservers answer authoritatively for your domain.
✓	Missing NS records at parent servers	Good! The parent servers have all the nameservers listed for your domain as your local nameservers!
✓	Missing NS records at local servers	Good! Your local servers have all the nameservers listed for your domain that are listed at the parent servers!
✓	No CNAME records for domain	Good! No CNAME records are present for 'umbc.edu'. RFC1912 section 2.4 and RFC2181 section 10.3 state that there should be no CNAME records if any other records are present for a given domain.

Start of Authority (SOA) Tests

Status	Test Case	Information
	SOA Record	Your Start of Authority (SOA) record is: Primary nameserver: umbc10.umbc.edu. Hostmaster E-mail address: HOSTMASTER.UMBC.EDU. Serial number: 2010200824 Refresh: 10800 Retry: 1800 Expire: 3600000 Minimum TTL: 21700

Status	Test Case	Information
	MX Records	Your Mail eXchanger (MX) records are: 10 mxin.umbc.edu. [TTL=86400]

✓	MX records have reverse DNS entries	Good! All your MX IP addresses have reverse DNS entries. The reverse entries returned were: 177.12.85.130.in-addr.arpa <--> mxin.umbc.edu.
---	-------------------------------------	---

WWW Record Tests

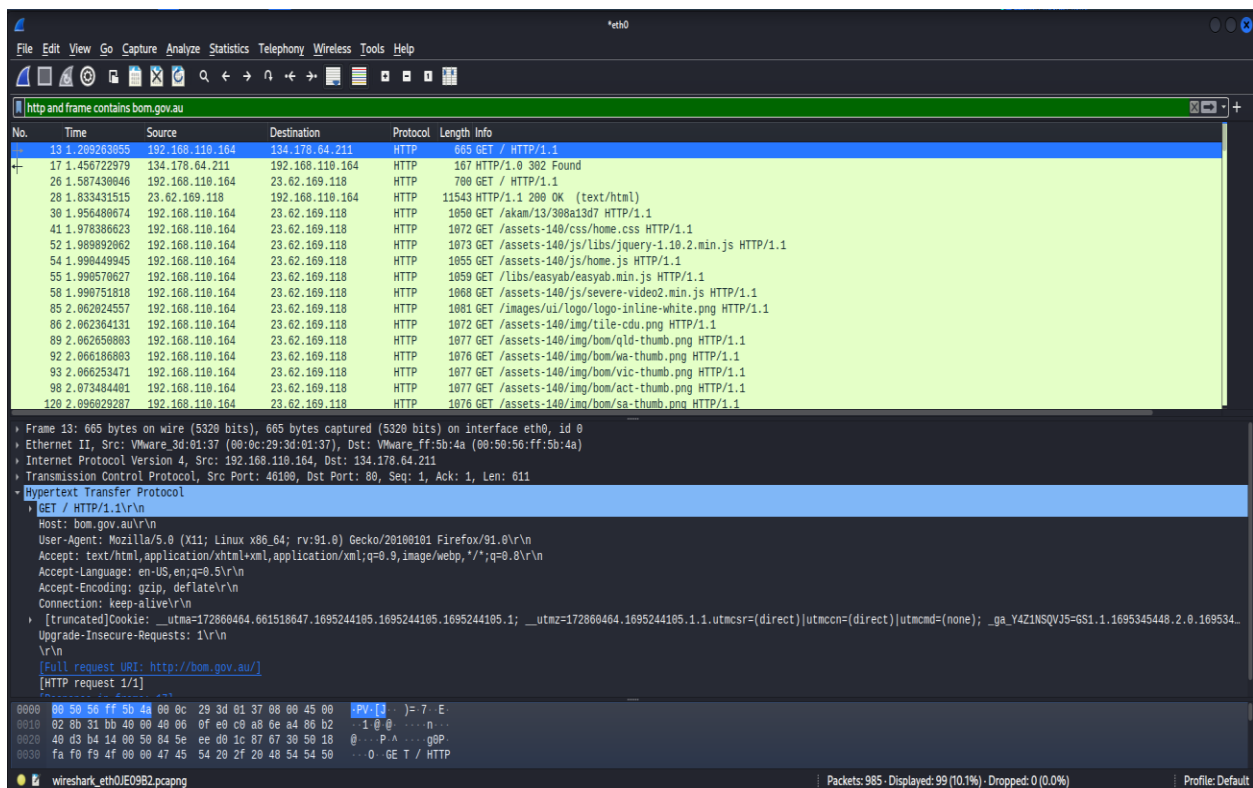
Status	Test Case	Information
	WWW record	www.umbc.edu A records are: www.UMBC.EDU. A 23.185.0.4 [TTL=86400]

2. Information Collection by visiting a site

After comparing result of both sites 'bom.gov.au' and 'lairnet.academy' respectively.

After analyzing both requests, I have found that in the first site pcap details, cookies are getting sent with its request which is showing session-based interaction. Server mention is BigIP.

However, in the second request cookies are not getting sent. But, in the second request, many details are there like it is accepting files such as Etag and some of the encrypted contents are there. Server mention is eCorp Gibson.



Wireshark - Follow TCP Stream (tcp.stream eq 1) - eth0

```
GET / HTTP/1.1
Host: bom.gov.au
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Cookie: __utma=172860464.661518647.1695244105.1695244105.1695244105.1; __utmz=172860464.1695244105.1.1.utmcsr=(direct)|utmccn=(direct)|utmcid=(none); _ga_Y4Z1NSQVJ5=GS1.1.1695345448.2.0.1695345448.0.0.0; _ga=GA1.1.769348929.1695244107; _ga_MQWM1SE6FW=GS1.1.1695244112.1.0.1695244118.0.0.0
Upgrade-Insecure-Requests: 1

HTTP/1.0 302 Found
Location: http://www.bom.gov.au
Server: BigIP
Connection: Keep-Alive
Content-Length: 0
```

client pkt, server pkt, 1 turn.

Entire conversation (724 bytes) Show data as ASCII Stream 1

Find: Find Next

Filter Out This Stream Print Save as... Back Close Help

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http and frame contains lairnet.academy

No.	Time	Source	Destination	Protocol	Length	Info
118	20.621491185	23.96.39.152	192.168.110.164	HTTP	2292	HTTP/1.1 200 OK
166	20.952227324	192.168.110.164	142.251.167.94	OCSP	470	Request
168	20.979963218	142.251.167.94	192.168.110.164	OCSP	755	Response
170	20.989299731	192.168.110.164	142.251.167.94	OCSP	470	Request
177	21.010842399	192.168.110.164	142.251.167.94	OCSP	470	Request
179	21.017273759	142.251.167.94	192.168.110.164	OCSP	755	Response
196	21.037289913	192.168.110.164	23.96.39.152	HTTP	349	GET /assets/images/favicon.png HTTP/1.1
206	21.048263809	142.251.167.94	192.168.110.164	OCSP	755	Response
220	21.054362240	23.96.39.152	192.168.110.164	HTTP	875	HTTP/1.1 200 OK (PNG)

Frame 29: 380 bytes on wire (3040 bits), 380 bytes captured (3040 bits) on interface eth0, id 0

Ethernet II, Src: VMware_3d:01:37 (00:0c:29:3d:01:37), Dst: VMware_ff:5b:4a (00:50:56:ff:5b:4a)

Internet Protocol Version 4, Src: 192.168.110.164, Dst: 23.96.39.152

Transmission Control Protocol, Src Port: 35666, Dst Port: 80, Seq: 1, Ack: 1, Len: 326

Hypertext Transfer Protocol

GET / HTTP/1.1

Host: lairnet.academy

User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Connection: keep-alive

Upgrade-Insecure-Requests: 1

[Full request URI: http://lairnet.academy/]

[HTTP request 1/3]

[Response in frame: 24]

[Next request in frame: 20]

0000 00 50 56 ff 5b 4a 00 00 3d 01 37 08 00 45 00 PV [] = 7 E

0010 01 6e c5 0e 49 09 49 06 37 c9 a8 6e a4 17 00 n 0 8 7 n

0020 27 98 8b 52 00 59 cb b6 db 8c 4e ef 0b c4 59 18 ' R P . N . P

0030 fa f9 6f 05 00 00 47 45 54 29 2f 2b 48 54 5a 59 o GE T / HTTP

0040 2f 31 2e 31 0d 8a 4b 6f 73 74 3a 2b 6c 61 69 72 / 1 . M o st : lair

0050 6e 65 74 2e 61 63 61 64 65 6d 79 0d 0a 55 73 65 net . acad emy . Use

0060 72 2d 41 67 65 6e 74 3a 2d 40 6f 7a 69 6c 6c 61 r - Agent : Mozilla

0070 2f 35 2e 30 2b 5b 31 31 3b 20 4c 69 6e 75 78 / 5 . 0 (X 1 1 ; Linux

0080 20 78 38 36 5f 36 34 3b 20 72 76 3a 39 31 2e 30 x 86 _ 6 4 ; rv : 9 1 . 0

0090 20 20 47 65 63 6b 6f 2f 32 30 31 30 30 31 30 31) Gecko / 20100101

00a0 20 4b 69 72 65 64 6f 7b 2f 39 31 2e 30 0d 6a 41 Firefox / 91 . 0 A

Wireshark_eth0XZAC2.pcapng Packets: 317 · Displayed: 22 (6.9%) Profile: Default

```
Wireshark - Follow TCP Stream (tcp.stream eq 2) - eth0

GET / HTTP/1.1
Host: lairnet.academy
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101 Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Upgrade-Insecure-Requests: 1

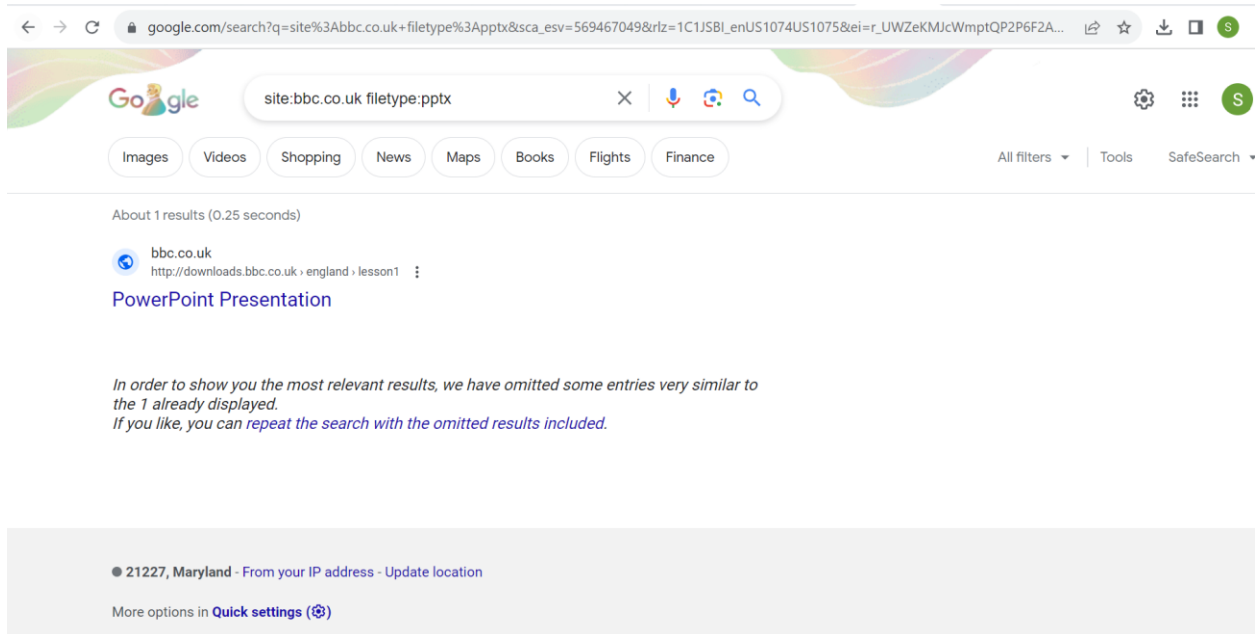
HTTP/1.1 200 OK
Date: Fri, 29 Sep 2023 13:01:05 GMT
Server: eCorp Gibson HAL-9000 W.O.P.R. Edition
Last-Modified: Sat, 07 Sep 2019 01:00:17 GMT
ETag: "285f-591ec13fb5177-gzip"
Accept-Ranges: bytes
Vary: Accept-Encoding
Content-Encoding: gzip
Content-Length: 2599
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html

.....Z...6.....E-i&q;...H'Yd.&(.,.b.0h...D....f..}>.>.C.(.g&.b.m,...9.4.L&.b.....N...d.?
$.v...#QB.Zx...Q.rB...h.....'e..hG.bz..z.?.....l..9;Bj.*2.2.]...-b...Mc.3.9M|...{.vZ.>.P.....G".....Yd9[.x...OW...H.\s.YK...\.e.
\4-2.Q.W.U\...ly/).m...M.\.....i{.p,!Y...Fhu..w....kAe.D"^(^B.hA.....0$.Y%.w%.....nm.@P.zy.s....J...d,B.eq..NRZ.4e...
$SE..Ld.Vo.I..v...Z...vi..I.....ut}.Ybjq.2.k.?V7....Od....".%OA....G..v.m"#(.C.....N...I.;;'...
.....).Z.....y.N
t.\'ly.>...6.....&aj.....yR.
..=m...[.J."JF
...LE$.K..fo.>?...i].....PJ.....p.vw.Vi.4..H.R.\2pI."u).....oy.....G.....+d.....)On...Zhq...l:
+...ggg...-#2.0.*0..bC.dM-ES!..Z.7...B.D.-I..+xs.5K.....P.6.....D..S...^..).E..L@.R..3...jLS.S9...y...h.M...M...RV...\.
3..LA.C...K..Zzm..o.*.}h;4f....0..qPs.....ZL...c...f?Kz@...d.E;.]...Gx.V.z.2...a.f.....#.....l.....{&!
[>
...i...[.P.VU....*c..Y....[]]...PW...k...2.g{.....&.X...q..|.....c5dJ.....|...V.....I...c...*bIB:-.W;.....0
".j;.....Co"...jm.2
-..&...o...;W4.7.....2.....!.....[Z2(?l.]Ka...W)....QW.....6.q%.<...J.a....D.I.k..cs.l....e...s".J.=.j...C.p..Y..#..!)L...
(.5...Z.a...!...j...5.zY.i@+u..n..j;...U...!.....sj...
&Al.z"...u..',(.2.b/SV..$.l..c.5.....<...R..W..G...m.....Q.....0p.a...I:$V...?..b...w0...~...k].....B.gF6U=-.Jo.
$.Is.t.o..GQ.\.g.1.p.2.h.VX...{.....\).Ta...$.m.0.b....W...).<.B.c.....@.W..U.....vU.tP,q..c{...CS<..h..M...P..
$.<fki.T.K8NKw...f.Yf.v'Z...71...h...37Z...n.K...&<V..1r..B.*.UzX..h\..0...51..ji'
3 client pkts, 9 server pkts, 5 turns.

Entire conversation (28 kB) Show data as ASCII Stream 2
Find: Find Next
Filter Out This Stream Print Save as... Back Close Help
```

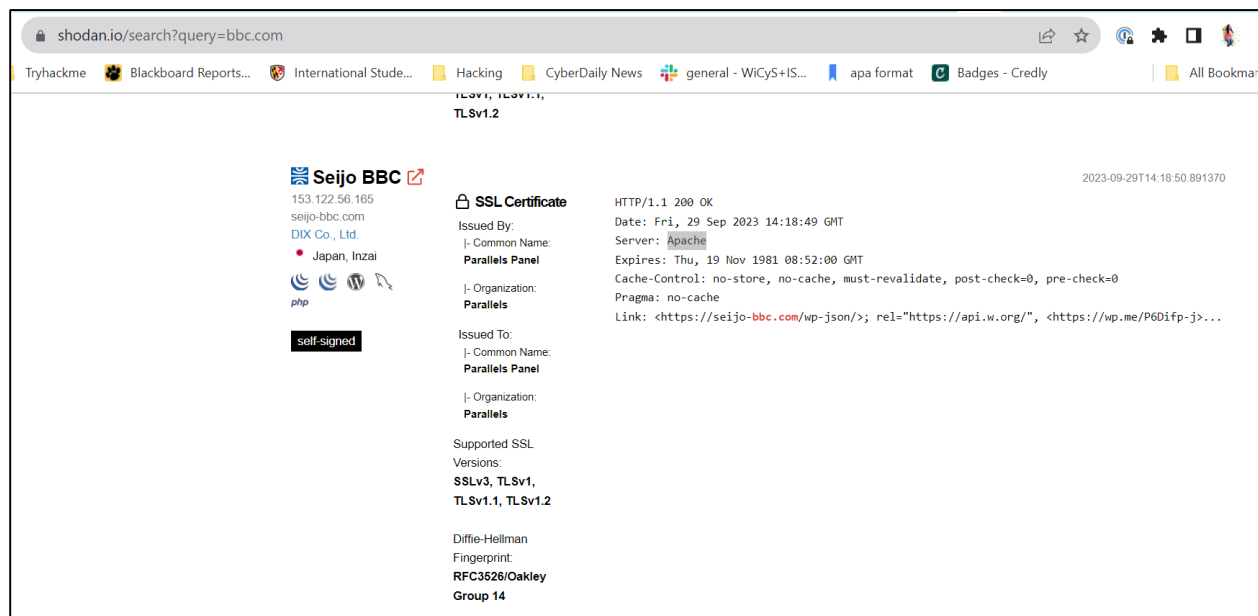
3. Information Collection via Search Engine

- 1. Perform a Google Hacking Search for all PowerPoint Documents (.pptx extension). Narrow that search to a specific domain or site
- To perform this task I am using Google Dorking and I am using filetype: pptx to search .pptx extension files.



2. Perform a Shodan search for Apache web servers. Find any with an HTTP 200 OK response

- I am able to find one apache server with HTTP 200 ok response



3. Perform a Bing IP search on a small business website such as shops in old Ellicott City, mainstreet Catonsville, a local coffee shop (not Starbucks), etc.
- I couldn't IP search on Bing for this website. However, I did nslookup to check IP address of the website from the address mentioned.

```

kali@kali: ~
File Actions Edit View Help
(kali@kali)-[~]
$ nslookup ihop.com
Server:      192.168.110.2
Address:     192.168.110.2#53
Non-authoritative answer:
Name:   ihop.com
Address: 104.16.135.231
Name:   ihop.com
Address: 104.16.134.231

(kali@kali)-[~]
$ nslookup oldmill-cafe.com
Server:      192.168.110.2
Address:     192.168.110.2#53
Non-authoritative answer:
Name:   oldmill-cafe.com
Address: 108.138.64.72
Name:   oldmill-cafe.com
Address: 108.138.64.128
Name:   oldmill-cafe.com
Address: 108.138.64.19
Name:   oldmill-cafe.com
Address: 108.138.64.60

```

4. Automated Tools for Information Gathering

1. Using The Harvester, search for all email addresses from the umbc.edu domain from google and linkedin

- I am using the theHarvester command line tool to search for all email addresses from umbc.edu from google and linkedin. Below is the command where -d is used to specify domain name and -b is used to specify

Command : theHarvester -d umbc.edu -b google, linkedin

I have found below 9 email addresses using above command

aok@umbc.edu

blackwel@umbc.edu

blaney@umbc.edu

bowen@umbc.edu

disher@umbc.edu

isss@umbc.edu

sunildasgupta@umbc.edu

x22bowen@umbc.edu

x22sunildasgupta@umbc.edu

```
File Actions Edit View Help
kali@kali: ~
$ theHarvester -d umbc.edu -b google,linkedin

*****
* theHarvester v.0.3
* Coded by Christian Martorella
* Info: Security Research
* cmartorellab@security.com
*****

[*] Target: umbc.edu
    Searching 100 results.
    Searching 0 results.
    Searching 100 results.
    Searching 200 results.
    Searching 300 results.
    Searching 400 results.
    Searching 500 results.
    Searching 500 results.
[*] Searching Google.
    Searching 500 results.
[*] Searching LinkedIn.
    Searching 235 results.
[*] LinkedIn Users found: 235
Abigail Pollock
Adam Savage
Aditi Joshi
Alan Sherman - Professor of Computer Science
Alexander Andrews - Production Assistant
Ali Mohammadi - Research Assistant
Allison Jones
Allison Mitchell
Amer Dubin - Test Engineering Specialist
Andrea Kalfoglou
Andrew Rahn
Andy Louis
Anna Adelstein
Anne Roland
Annette Jackson
```

```
[*] No IPs found.

[*] Emails found: 9
aok@umbc.edu
blackwell@umbc.edu
blaney@umbc.edu
bowen@umbc.edu
disher@umbc.edu
isss@umbc.edu
sunildasgupta@umbc.edu
x22bowen@umbc.edu
x22sunildasgupta@umbc.edu

[*] Hosts found: 25
che.umbc.edu:130.85.12.176
chemistry.umbc.edu:23.185.0.4
fm.umbc.edu:23.185.0.4
gradschool.umbc.edu:23.185.0.4
me.umbc.edu:23.185.0.4
my.umbc.edu:50.16.136.82, 50.19.212.23
news.umbc.edu:23.185.0.4
psychology.umbc.edu:23.185.0.4
publicpolicy.umbc.edu:23.185.0.4
tickets.umbc.edu:130.85.12.176
undergraduate.umbc.edu:23.185.0.2
userpages.umbc.edu:130.85.30.120
www.umbc.edu:23.185.0.4
x22chemistry.umbc.edu
x22gradschool.umbc.edu
x22news.umbc.edu
x22psychology.umbc.edu
x22tickets.umbc.edu
x22undergraduate.umbc.edu
x2m.umbc.edu
```

2. Using Recon-ng, search for all points of contact for a large company (defense contractors work well), by loading the /recon/domains-contacts/whois_pocs and setting the source to the domain name of your target.
- To perform this task first I have started Recon-ng and then install modules and installed 'whois_pocs' using the command 'marketplace install recon/domains-contacts/whois_pocs'

```
Interfaces with installed modules
Usage: modules <load|reload|search> [ ... ]

[recon-ng][default] > marketplace
Interfaces with the module marketplace
Usage: marketplace <info|install|refresh|remove|search> [ ... ]

[recon-ng][default] > marketplace search whois
[*] Searching module index for 'whois' ...

+-----+-----+-----+-----+-----+-----+
| Path                                     | Version | Status   | Updated | D | K |
+-----+-----+-----+-----+-----+-----+
| recon/companies-domains/viewdns_reverse_whois | 1.1     | not installed | 2021-08-24 |   |   |
| recon/companies-multi/whois_miner           | 1.1     | not installed | 2019-10-15 |   |   |
| recon/domains-companies/whoxy_whois         | 1.1     | not installed | 2020-06-24 |   | * |
| recon/domains-contacts/whois_pocs           | 1.0     | not installed | 2019-06-24 |   |   |
| recon/netblocks-companies/whois_orgs        | 1.0     | not installed | 2019-06-24 |   |   |
+-----+-----+-----+-----+-----+-----+

D = Has dependencies. See info for details.
K = Requires keys. See info for details.

[recon-ng][default] > marketplace install recon/domains-contacts/whois_pocs
[*] Module installed: recon/domains-contacts/whois_pocs
[*] Reloading modules ...
```

Now load the 'whois_pocs' using command – 'modules load recon/domains-contacts/whois_pocs'.

Set the domain name as a source using the command – 'options set SOURCE <domain_name>'. Once the SOURCE is set use the 'run' command.

lockheedmartin.com domain hasn't contain any contact details.

```
[recon-ng][default] > modules load recon/domains-contacts/whois_pocs
[recon-ng][default][whois_pocs] > info

    Name: Whois POC Harvester
    Author: Tim Tomes (@lanmaster53)
    Version: 1.0

Description:
  Uses the ARIN Whois RWS to harvest POC data from whois queries for the given domain. Updates the
  'contacts' table with the results.

Options:


| Name   | Current Value | Required | Description                              |
|--------|---------------|----------|------------------------------------------|
| SOURCE | default       | yes      | source of input (see 'info' for details) |



Source Options:
  default      SELECT DISTINCT domain FROM domains WHERE domain IS NOT NULL
  <string>     string representing a single input
  <path>       path to a file containing a list of inputs
  query <sql>  database query returning one column of inputs

[recon-ng][default][whois_pocs] > options set SOURCE lockheedmartin.com
SOURCE ⇒ lockheedmartin.com
[recon-ng][default][whois_pocs] > run

_____
LOCKHEEDMARTIN.COM
_____
[*] URL: http://whois.arin.net/rest/pocs;domain=lockheedmartin.com
[*] No contacts found.
```

So I have search for two more domains northropgrumman did shown one contact details

```
[recon-ng][default][whois_pocs] > options unset SOURCE
SOURCE ⇒ None
[recon-ng][default][whois_pocs] > options set SOURCE northropgrumman.com
SOURCE ⇒ northropgrumman.com
[recon-ng][default][whois_pocs] > run

_____
NORTHROPGRUMMAN.COM
_____
[*] URL: http://whois.arin.net/rest/pocs;domain=northropgrumman.com
[*] URL: http://whois.arin.net/rest/poc/BAHUS-ARIN
[*] Country: United States
[*] Email: fbahus@northropgrumman.com
[*] First_Name: Frank
[*] Last_Name: Bahus
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Annapolis Junction, MD
[*] Title: Whois contact
[*] _____
Installing dependency tree... Done
Gathering information... Done
SUMMARY
  to locate package Recurring
_____
[*] 1 total (1 new) contacts found.
[recon-ng][default][whois_pocs] > █
```

I have search for domain boeing.com which have shown total 67 contact details.

```

[recon-ng][default][whois_pocs] > options unset SOURCE
SOURCE => None
[recon-ng][default][whois_pocs] > options set SOURCE boeing.com
SOURCE => boeing.com
[recon-ng][default][whois_pocs] > run

-----
BOEING.COM
-----
[*] URL: http://whois.arin.net/rest/pocs;domain=boeing.com
[*] URL: http://whois.arin.net/rest/poc/AIR4-ARIN
[*] Country: United States
[*] Email: network.registrar@boeing.com
[*] First_Name: None
[*] Last_Name: Abuse and Incident Response
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Chicago, IL
[*] Title: Whois contact
[*] -----
[*] Country: United States
[*] Email: abuse@boeing.com
[*] First_Name: None
[*] Last_Name: Abuse and Incident Response
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Chicago, IL
[*] Title: Whois contact
[*] -----
[*] URL: http://whois.arin.net/rest/poc/AWO19-ARIN
[*] Country: United States
[*] Email: AL.WOOD@boeing.com
[*] First_Name: AL
[*] Last_Name: Wood
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Seal Beach, CA
[*] Title: Whois contact
[*] -----
[*] URL: http://whois.arin.net/rest/poc/HOFFM353-ARIN
[*] Country: United States
[*] Email: aodhan.hoffman@boeing.com
[*] First_Name: Aodhan
[*] Last_Name: Hoffman
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Kent, WA

```

```

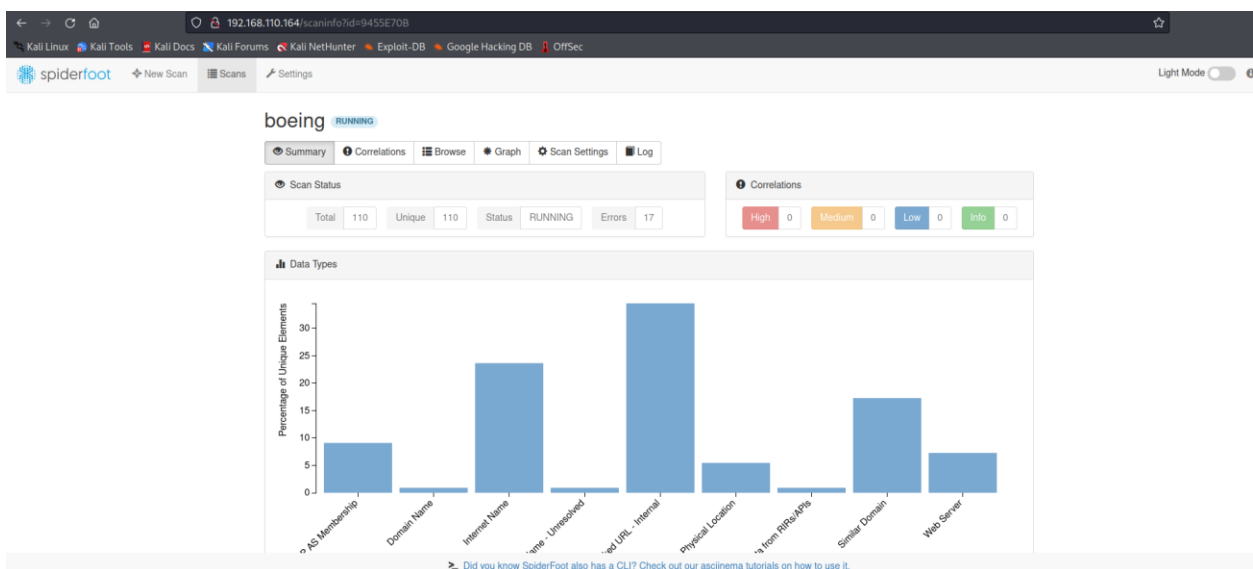
[*]
[*] URL: http://whois.arin.net/rest/poc/TGS6-ARIN
[*] Country: United States
[*] Email: theodore.g.sickles@boeing.com
[*] First_Name: Theodore
[*] Last_Name: Sickles
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Seal Beach, CA
[*] Title: Whois contact
[*]
[*] URL: http://whois.arin.net/rest/poc/HODGE164-ARIN
[*] Country: United States
[*] Email: timothy.a.hodges@boeing.com
[*] First_Name: TIMOTHY
[*] Last_Name: HODGES
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Chicago, IL
[*] Title: Whois contact
[*]
[*] URL: http://whois.arin.net/rest/poc/HODGE245-ARIN
[*] Country: United States
[*] Email: timothy.a.hodges@boeing.com
[*] First_Name: TIMOTHY
[*] Last_Name: HODGES
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Chicago, IL
[*] Title: Whois contact
[*]
[*] URL: http://whois.arin.net/rest/poc/TB1197-ARIN
[*] Country: United States
[*] Email: tom.f.bishop@boeing.com
[*] First_Name: Tom
[*] Last_Name: Bishop
[*] Middle_Name: None
[*] Notes: None
[*] Phone: None
[*] Region: Chicago, IL
[*] Title: Whois contact
[*]

SUMMARY
[*] 67 total (42 new) contacts found.
[recon-ng][default][whois_pocs] >

```

3. Using Spiderfoot, perform a search against a domain related to your target.

- I have started the Spiderfoot command line tool



192.168.110.164/scaninfo?id=9455E70B

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec

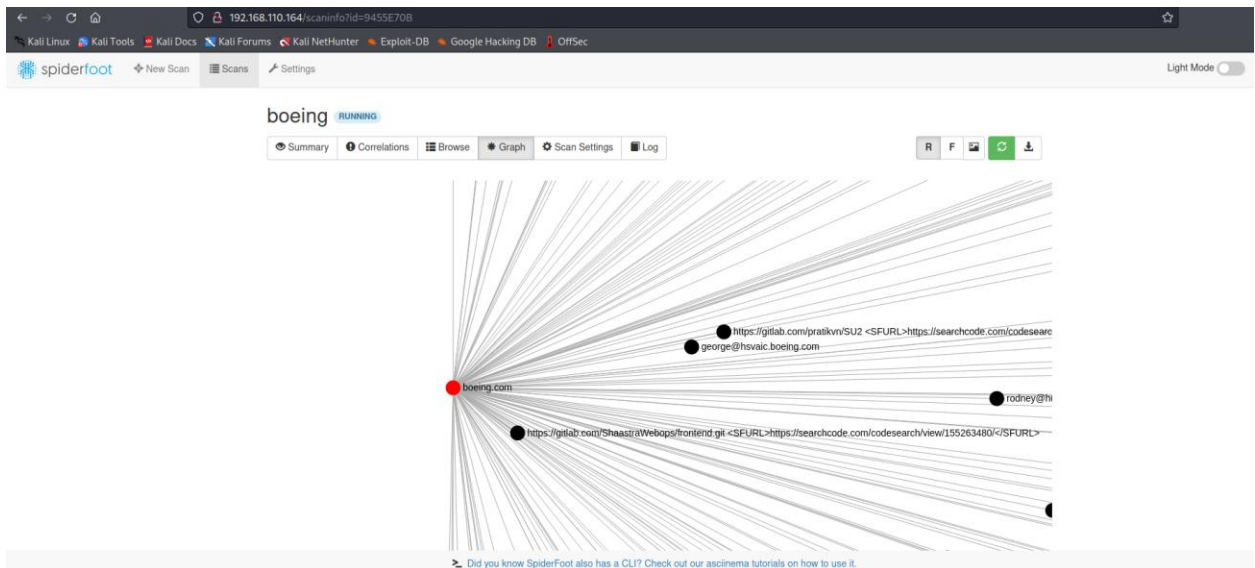
spiderfoot New Scan Scans Settings Light Mode

boeing **RUNNING**

Summary Correlations Browse Graph Scan Settings Log

Type	Unique Data Elements	Total Data Elements	Last Data Element
BGP AS Membership	10	10	2023-09-30 03:10:37
Domain Name	1	1	2023-09-30 03:10:30
Email Address	28	28	2023-09-30 03:11:31
HTTP Headers	3	3	2023-09-30 03:12:02
HTTP Status Code	1	3	2023-09-30 03:12:02
Internet Name	26	27	2023-09-30 03:11:32
Internet Name - Unresolved	1	1	2023-09-30 03:10:37
Linked URL - External	46	46	2023-09-30 03:12:02
Linked URL - Internal	232	236	2023-09-30 03:12:02
Physical Location	6	6	2023-09-30 03:10:31
Public Code Repository	54	54	2023-09-30 03:11:32
Raw Data from RIRs/APIs	55	55	2023-09-30 03:11:32
Similar Domain	25	25	2023-09-30 03:11:29
Web Content	3	3	2023-09-30 03:12:02
Web Content Type	2	3	2023-09-30 03:12:02

Did you know SpiderFoot also has a CLI? Check out our asciinema tutorials on how to use it.



5. Dox the instructor

Answer the following questions:

1. Who do I work for and who have I worked for?
 - a. You are working as a
 - i. System Vulnerability Analyst for INNOPLEX, LLC,
 - ii. Adjunct Professor for UMBC, Towson University, University of Arizona.
 - iii. Graduate Teaching Assistant at FAU College.
 - b. You were working as a
 - i. Reverse Engineer in INNOPLEX, LLC
 - ii. System Vulnerability Analyst in the United States Department of Defense

- iii. DevOps Engineer at Cox Automotive Inc.
- iv. Graduate Research Assistant at FAU
- v. Information Technology Specialist at FAU

2. When did I get married?

- 1/27/24

3. Where do I/have I lived?

- You are living in Miami, Florida.

4. Who are my relatives?

- Toni Wood
- Amy Rodriguez
- Melissa Coston Martin
- Jim Rodriguez
- Chris Coston

5. What schools have I attended?

- Florida Atlantic University

6. What are some of the people I know (three or four is enough)?

- Amy Rodriguez
- Jim Rodriguez
- Ashley Rubio Er
- Toni Wood
- Jose Miguel Martin

7. What are some of my interests (two or three is enough)?

- Cybersecurity
- Learning new technology
- Teaching students

8. Do I have children? Names?

- No kids

9. Did/do I own a domain name?

- Haven't found any as per my search