



UNIVERSITY INSTITUTE OF ENGINEERING

Department of Computer Science & Engineering

Subject Name: WEB AND MOBILE SECURITY LAB

Subject Code: 20ITP-378

Submitted to:

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Group: B

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Date of Performance: 17/10/22

Aim: Perform Penetration testing on a web application to gather Information about the system (Foot Printing).

Objective: To perform penetration testing and foot printing on any Web Application.

Software/Hardware Requirements: Kali Linux, D-tech tools or any pen Testing tools and any platform using Python 2.7

Tools to be used:

- 1. D-Tech
- 2. NMAP
- 3. Metasploit
- 4. Wire Shark

Introduction:

Footprinting means gathering information about a target system that can be used to execute a successful cyber-attack. To get this information, a hacker might use various methods with variant tools. This information is the first road for the hacker to crack a system.

Different kinds of information that can be gathered from Footprinting are as follows:

- The operating system of the target machine
- Firewall
- IP address
- Network map
- · Security configurations of the target machine
- Email id, password
- Server configurations
- URLs
- VPN

Sources

Using Neo Trace: Neo Trace is a powerful tool for getting path information. The graphical display displays the route between you and the remote site, including all intermediate nodes and their information. Neo Trace is a well-known GUI route tracer program. Along with a graphical route, it also displays information on each node such as IP address, contact information, and location.

Steps:

Website Footprinting: website mirroring

- 1. Go to google and open HtTrack link and download first link.
- 2. Install this tool and put URL of any demo website to copy the website.

3. To check the detail coding and web pages of copied website just go to the location where this tool is installed.

Email Foot printing:

- 1. Open any spam mail
- 2. Click on three dots and click on show original. Search "received from" on page and copy ip address
- 3. Open a website ultratools.com or Whois Ip Lookup and paste ip address there.
- 4. You can track all information there.

Network Foot printing:

- 1. Centralops.net and enter any domain there like Netflix.com
- **2.** All information you can view there (for educational purpose only)

Output Screenshots:



CHANDIGARH Discover. Learn. Empower.

Site mirroring in progress [2/9 (+3), 2	792667 bytes] - [laxma	n.whtt]			
File Preferences Mirror Log Wind	low Help				
- Windows < C:> - android - hpswsetup - Intel - KMPlayer	In progress: Information Bytes saved:	Parsing HTML file	Links scanned:	3/12 (+2)	
. LAB	Time:	2s	Files written:	4	
. MinGW	Transfer rate:	0B/s (1,26KiB/s)	Files updated:	0	
☐ My Web Sites	Active connections:	4	Errors:	0	
⊟- laxman ⊞- hts-cache ⊞- uims.cuchd.in	Actions:				
		os://uims.cuchd.in/fonts ps://uims.cuchd.in/uims/ https://uims.cuchd.in/cuims https://uims.cuchd.in/stude		SKIP SKIP	
⊕- Program Files (x86) ⊕- SWSetup ⊕- Users		⟨ <u>B</u> a	ck <u>N</u> ext>	Cancel Help	
DATA < D:>					

Whois IP 103.70.135.7

Updated 1 second ago

```
% [whois.apnic.net]
% Whois data copyright terms http://www.apnic.net/db/dbcopyright.html
% Information related to '103.70.132.0 - 103.70.135.255'
% Abuse contact for '103.70.132.0 - 103.70.135.255' is 'guru@move2inbox.in'
             103.70.132.0 - 103.70.135.255
MSPL-IN
inetnum:
netname:
               Mify Solutions Pvt. Ltd.
descr:
country:
               ORG-MSPL3-AP
org:
               MSPL6-AP
admin-c:
tech-c:
               MSPL6-AP
abuse-c:
status:
              AM2778-AP
ALLOCATED PORTABLE
remarks:
remarks:
To report network abuse, please contact mnt-irt
remarks:
For troubleshooting, please contact tech-c and admin-c
Parent invalid contact via www.apnic.net/invalidcontact
              Report invalid contact via www.apnic.net/invalidcontact
               -----
remarks:
               APNIC-HM
mnt-by:
mnt-by: APNIC-HM
mnt-lower: MAINT-MSPL-IN
mnt-routes: MAINT-MSPL-IN
mnt-irt: IRT-MSPL-IN
last-modified: 2020-09-22T13:43:54Z
source: APNIC
irt:
               TRT-MSPL-TN
address: FF-12/A, Omaxe Plaza, Shakti Khand-II, Indirapuram, Ghaziabad
e-mail: guru@move2inbox.in
abuse-mailbox: guru@move2inbox.in
admin-c: MSPL6-AP
tech-c: MSPL6-AP
tech-c:
last-modified: 2022-06-16T07:12:30Z
               APNIC
source:
organisation: ORG-MSPL3-AP
org-name: Mify Solutions Pvt. Ltd.
               IN
country:
              H-163 SECTOR-63
address:
               NOIDA
address:
               +91-9582450297
phone:
e-mail: guru@move2inbox.in
```

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address. NOIDA

mnt-ref: APNIC-HM mnt-by: APNIC-HM

last-modified: 2022-07-13T12:55:48Z

source: APNIC

role: ABUSE MSPLIN

address: FF-12/A, Omaxe Plaza, Shakti Khand-II, Indirapuram, Ghaziabad

country: ZZ

phone: +000000000

e-mail: guru@move2inbox.in admin-c: MSPL6-AP

admin-c: MSPL6-AP tech-c: MSPL6-AP nic-hdl: AM2778-AP

remarks: Generated from irt object IRT-MSPL-IN

remarks: guru@move2inbox.in is invalid

abuse-mailbox: guru@move2inbox.in

mnt-by: APNIC-ABUSE

last-modified: 2022-06-16T07:13:28Z

source: APNIC

role: Mify Solutions Pvt Ltd administrator

address: FF-12/A, Omaxe Plaza, Shakti Khand-II, Indirapuram, Ghaziabad

country: IN

phone: +91-9810448528 e-mail: guru@move2inbox.in

admin-c: MSPL6-AP tech-c: MSPL6-AP nic-hdl: MSPL6-AP mnt-by: MAINT-MSPL-IN

last-modified: 2019-09-03T07:02:36Z

source: APNIC

% Information related to '103.70.134.0/23AS132090'

route: 103.70.134.0/23

origin: AS132090

descr: Mify Solutions Pvt. Ltd.

SEC 63 NOIDA

U. P. - 201301, , India, , T : +91 - 120 - 4835000

mnt-by: MAINT-MSPL-IN

last-modified: 2019-03-08T06:13:21Z

source: APNIC

% This query was served by the APNIC Whois Service version 1.88.16 (WHOIS-US4)

←

DNS records

name	class	type	data		time to	live
lms.cuchd.in	IN	Α	3.6.55.179		600s	(00:10:00
cuchd.in	IN	Α	23.186.192.187		600s	(00:10:00)
cuchd.in	IN	Α	104.255.32.116		600s	(00:10:00)
cuchd.in	IN	NS	pdns07.domaincontrol.com		3600s	(01:00:00)
cuchd.in	IN	NS	pdns08.domaincontrol.com		3600s	(01:00:00)
cuchd.in	IN SOA server: pdns07.domaincontrol.com				3600s	(01:00:00)
			email:	dns@jomax.net		
			serial:	2022090202		
			refresh:	28800		
			retry:	7200		
			expire:	604800		
			minimum ttl:	600		
cuchd.in	IN	MX	preference:	1	3600s	(01:00:00)
			exchange:	cuchd-in.mail.protection.outlook.com		
cuchd.in	IN	TXT	v=spf1 include	e:spf.protection.outlook.com -all	3600s	(01:00:00)
cuchd.in	IN	TXT	google-site-ve	rification=AdvZQ-lYyjuFDnld1Q-X01BfDzqXB5bSsdbGkW8DPew	3600s	(01:00:00)
179.55.6.3.in-addr.arpa	IN	PTR	ec2-3-6-55-17	9.ap-south-1.compute.amazonaws.com	300s	(00:05:00)
55.6.3.in-addr.arpa	IN	NS	ns1-24-ap-sou	th-1.ec2-rdns.amazonaws.com	300s	(00:05:00)
55.6.3.in-addr.arpa	IN	NS	ns2-24-ap-soเ	th-1.ec2-rdns.amazonaws.com	300s	(00:05:00)
55.6.3.in-addr.arpa	IN	NS	ns3-24-ap-soเ	th-1.ec2-rdns.amazonaws.com	300s	(00:05:00)
55.6.3.in-addr.arpa	IN	NS	ns4-24-ap-soเ	th-1.ec2-rdns.amazonaws.com	300s	(00:05:00)
55.6.3.in-addr.arpa	IN	SOA	server:	ns-510.awsdns-63.com	300s	(00:05:00)
			email:	awsdns-hostmaster@amazon.com		
			serial:	1		
			refresh:	7200		
			retry:	900		
			expire:	1209600		
			minimum ttl:	86400		

Network Whois record

Oueried whois.arin.net with "n! NET-3-6-0-0-1"...

3.6.0.0 - 3.7.255.255 NetRange:

CIDR: 3.6.0.0/15 NetName: AMAZON-BOM
NetHandle: NET-3-6-0-0-1

AT-88-Z (NET-3-0-0-0-1)

Reallocated NetType:

OriginAS:

Organization: Amazon Data Services India (ADSI-6)

RegDate: 2019-10-29 Updated: 2019-10-29

https://rdap.arin.net/registry/ip/3.6.0.0 Ref:

OrgName: Amazon Data Services India

OrgId: ADSI-6

Address: L&T Business Park, Gate No.5, Tower A Address: Ground Floor, Sakivihar Road, Pawai Address:

Mumbai City: StateProv: MAHARASHTRA
PostalCode: 400072 IN Country:

2016-08-05 RegDate: 2019-08-02 Updated:

Ref: https://rdap.arin.net/registry/entity/ADSI-6

OrgTechHandle: ANO24-ARIN

OrgTechName: Amazon EC2 Network Operations

OrgTechPhone: +1-206-555-0000

OrgTechEmail: amzn-noc-contact@amazon.com

OrgTechRef: https://rdap.arin.net/registry/entity/ANO24-ARIN

OrgNOCHandle: AANO1-ARIN

OrgNOCName: Amazon AWS Network Operations OrgNOCPhone: +1-206-555-0000

OrgNOCEmail: amzn-noc-contact@amazon.com

OrgNOCRef: https://rdap.arin.net/registry/entity/AANO1-ARIN

OrgAbuseHandle: AEA8-ARIN

OrgAbuseName: Amazon EC2 Abuse OrgAbusePhone: +1-206-555-0000 OrgAbuseEmail: abuse@amazonaws.com

OrgAbuseRef: https://rdap.arin.net/registry/entity/AEA8-ARIN

Domain Whois record

Queried whois.registry.in with "cuchd.in"...

```
Domain Name: cuchd.in
Registry Domain ID: D8634765-IN
Registrar WHOIS Server:
Registrar URL: www.godaddy.com
Updated Date: 2020-05-04T14:42:51Z
Creation Date: 2014-08-05T06:32:26Z
Registry Expiry Date: 2023-08-05T06:32:26Z
Registrar: GoDaddy.com, LLC
Registrar IANA ID: 146
Registrar Abuse Contact Email:
Registrar Abuse Contact Phone:
Domain Status: clientUpdateProhibited http://www.icann.org/epp#clientUpdateProhibited
Domain Status: clientDeleteProhibited http://www.icann.org/epp#clientDeleteProhibited
Domain Status: clientRenewProhibited http://www.icann.org/epp#clientRenewProhibited
Domain Status: clientTransferProhibited http://www.icann.org/epp#clientTransferProhibited
Registry Registrant ID: REDACTED FOR PRIVACY
Registrant Name: REDACTED FOR PRIVACY
Registrant Organization:
Registrant Street: REDACTED FOR PRIVACY
Registrant Street: REDACTED FOR PRIVACY
Registrant Street: REDACTED FOR PRIVACY
Registrant City: REDACTED FOR PRIVACY
Registrant State/Province: Punjab
Registrant Postal Code: REDACTED FOR PRIVACY
Registrant Country: IN
Registrant Phone: REDACTED FOR PRIVACY
Registrant Phone Ext: REDACTED FOR PRIVACY
Registrant Fax: REDACTED FOR PRIVACY
Registrant Fax Ext: REDACTED FOR PRIVACY
Registrant Email: Please contact the Registrar listed above
Registry Admin ID: REDACTED FOR PRIVACY
Admin Name: REDACTED FOR PRIVACY
Admin Organization: REDACTED FOR PRIVACY
Admin Street: REDACTED FOR PRIVACY
Admin Street: REDACTED FOR PRIVACY
Admin Street: REDACTED FOR PRIVACY
Admin City: REDACTED FOR PRIVACY
Admin State/Province: REDACTED FOR PRIVACY
Admin Postal Code: REDACTED FOR PRIVACY
Admin Country: REDACTED FOR PRIVACY
Admin Phone: REDACTED FOR PRIVACY
Admin Phone Ext: REDACTED FOR PRIVACY
Admin Fax: REDACTED FOR PRIVACY
Admin Fax Ext: REDACTED FOR PRIVACY
```



Learning Outcomes:

Finally, as a penetration tester, you should collect and log all vulnerabilities in the system. Don't ignore any scenario considering that it won't be executed by the end-users. If you are a penetration tester, please help our readers with your experience, tips, and sample test cases on how to perform Penetration Testing effectively.