Lab Tasks 3: Passive and Active Recon

Name: Noman Masood Khan Roll Number: 211042-A

Course: CY243L - Penetration Testing - Lab

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Total Questions: 6
Attempted Questions: 6

Tasks 1: Finding Ip Address of theflash2k.me

Command:

```
dig @8.8.4.4 theflash2k.me
```

dig is the command which is used to query the DNS server to perform DNS look-up for the targeted domain. Both the 8.8.8.8 and the 8.8.4.4 are google public DNS servers.

Output:

```
-(kali⊛kali)-[~]
└─$ dig @8.8.4.4 theflash2k.me
; <>>> DiG 9.18.11-2-Debian <<>>> @8.8.4.4 theflash2k.me
; (1 server found)
;; global options: +cmd
;; Got answer:
;; → HEADER ← opcode: QUERY, status: NOERROR, id: 29687
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 512
;; QUESTION SECTION:
;theflash2k.me.
                                       Α
;; ANSWER SECTION:
theflash2k.me.
                     1799 IN
                                              76.76.21.21
;; Query time: 383 msec
;; SERVER: 8.8.4.4#53(8.8.4.4) (UDP)
;; WHEN: Sun Oct 22 13:27:10 EDT 2023
;; MSG SIZE rcvd: 58
```

```
theflash2k.me IP address is 76.76.21.21
```

Tasks 2: WHOIS Look-Up on google.com

WHOIS look-up is used to retrieve information about the domain name, their registrar, their creation expiration date etc.

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```
(kali@ kali)-[~]
$ whois google.com
Domain Name: GOOGLE.COM
Registry Domain ID: 2138514_DOMAIN_COM-VRSN
Registrar WHOIS Server: whois.markmonitor.com
Registrar URL: http://www.markmonitor.com
Updated Date: 2019-09-09T15:39:04Z
Creation Date: 1997-09-15T04:00:00Z
Registry Expiry Date: 2028-09-14T04:00:00Z
Registrar: MarkMonitor Inc.
Registrar IANA ID: 292
Registrar Abuse Contact Email: abusecomplaints@markmonitor.com
```

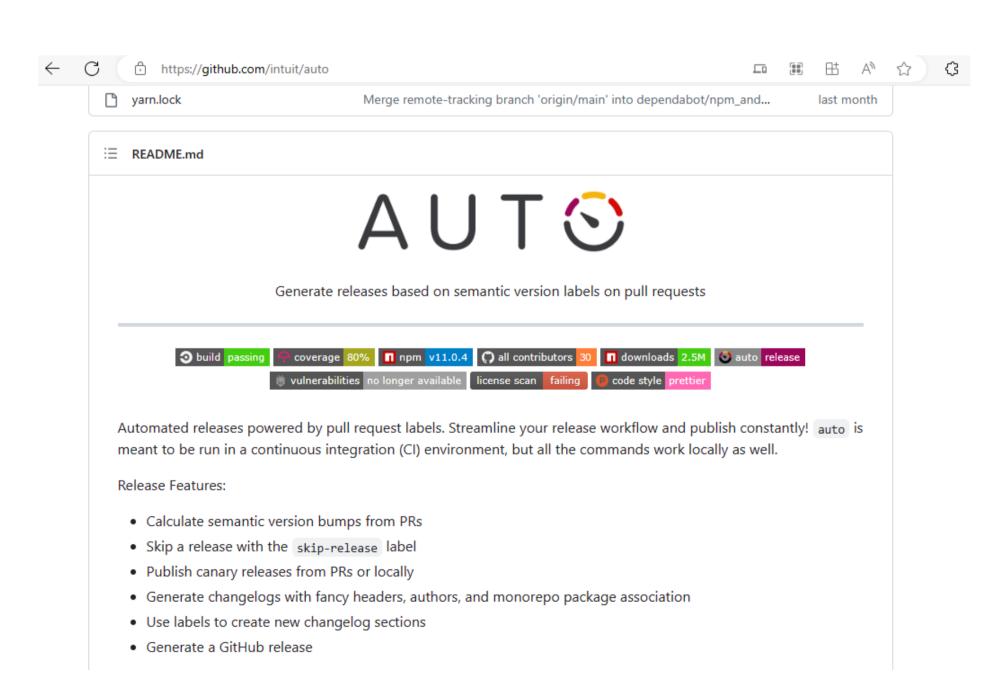
```
Google Registrar IANA ID: 292
Google Domain Creation Date: 1997-09-15
```

Tasks 3: Google Dorking for the finding the repos

```
Updated Dork : intext:"auto" "inurl:github"

URL of the Respository Found: https://github.com/intuit/auto
```

Screenshot of the Repository:



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Active Reconnaissance

Tasks 1: How many ports are open on theflash2k.me.

The total **ports 80 and 443** are open on the theflash2k.me.

```
(kali® kali)-[~]
$ sudo nmap theflash2k.me
Starting Nmap 7.93 ( https://nmap.org ) at 2023-10-23 04:02 EDT
Nmap scan report for theflash2k.me (76.76.21.21)
Host is up (0.014s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE
80/tcp open http
443/tcp open https
Nmap done: 1 IP address (1 host up) scanned in 6.07 seconds
```

Port 80 : service HTTP Port 443 : service HTTPS

```
(kali⊛kali)-[~]
sudo nmap -sC theflash2k.me
[sudo] password for kali:
Starting Nmap 7.93 ( https://nmap.org ) at 2023-10-23 04:28 EDT
Nmap scan report for theflash2k.me (76.76.21.21)
Host is up (0.0068s latency).
Not shown: 998 filtered tcp ports (no-response)
PORT STATE SERVICE
80/tcp open http
|_http-title: Site doesn't have a title (text/plain).
443/tcp open https
|_http-title: Site doesn't have a title (text/plain).
| ssl-cert: Subject: commonName=theflash2k.me
| Subject Alternative Name: DNS:theflash2k.me
| Not valid before: 2023-09-04T07:51:07
|_Not valid after: 2023-12-03T07:51:06
Nmap done: 1 IP address (1 host up) scanned in 12.79 seconds
```

Tasks 5: Finding the subdomains of the shameerkashif.me

The found subdirectories of the shameerkashif.me with the tool go-buster are:

```
Found: blog.shameerkashif.me

Found: www.shameerkashif.me

Found: Blog.shameerkashif.me
```

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```
(kali⊕ kali)-[~]
$ gobuster -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt dns -d shameerkashif.me -t 50

Gobuster v3.5
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Domain: shameerkashif.me
[+] Threads: 50
[+] Timeout: 1s
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

2023/10/23 06:59:34 Starting gobuster in DNS enumeration mode

Found: blog.shameerkashif.me

Found: Blog.shameerkashif.me
```

Tasks 6: Finding the subdomains of the shameerkashif.me

Command used:

```
searchsploit -t Apache Tomcat JSP Upload Bypass
```

Output:

```
(kali® kali)-[~]
$ searchsploit -t Apache Tomcat JSP Upload Bypass

Exploit Title

Apache Tomcat < 9.0.1 (Beta) / < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Upload Bypass / Remote Code Execution (1)
Apache Tomcat < 9.0.1 (Beta) / < 8.5.23 / < 8.0.47 / < 7.0.8 - JSP Upload Bypass / Remote Code Execution (2)

Shellcodes: No Results</pre>

Path

| windows/webapps/42953.txt
| Jss/webapps/42966.py
```

Searchsploit result for the Apache Tomcat

CVE	42953 and 42966
Exploit Title:	Apache Tomcat $< 9.0.1$ (Beta) $/ < 8.5.23$ $/ < 8.0.47$ $/ < 7.0.8$ - JSP Upload Bypass / Remote Code Execution (1) Apache Tomcat $< 9.0.1$ (Beta) $/ < 8.5.23$ $/ < 8.0.47$ $/ < 7.0.8$ - JSP Upload Bypass / Remote Code Execution (2)
Path	windows/webapps/42953.txt jsp/webapps/42966.py

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