

Assignment 4

Question 1:

Find out the mail servers of the following domain:

lbm.com

Wipro.com

Solution:

Using nslookup and setting type=mx. On searching I found these results:-

Mail servers of ibm.com = mx0b-001b2d01.pphosted.com and mx0a-001b2d01.pphosted.com

```
C:\WINDOWS\system32>nslookup
Default Server: UnKnown
Address: 192.168.43.1

> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.43.1

Non-authoritative answer:
ibm.com MX preference = 5, mail exchanger = mx0b-001b2d01.pphosted.com
ibm.com MX preference = 5, mail exchanger = mx0a-001b2d01.pphosted.com
>
```

Mail servers of wipro.com = wipro-com.mail.protection.outlook.com

Question 2:

Find the locations, where these email servers are hosted.

Solution:

Location of mail server of ibm.com:-

mx0a-001b2d01.pphosted.com

LOCATION

Country United States (US)
Continent North America (NA)

Coordinates 37.751 (lat) / -97.822 (long)

Time 2020-08-28 02:17:58 (America/Chicago)

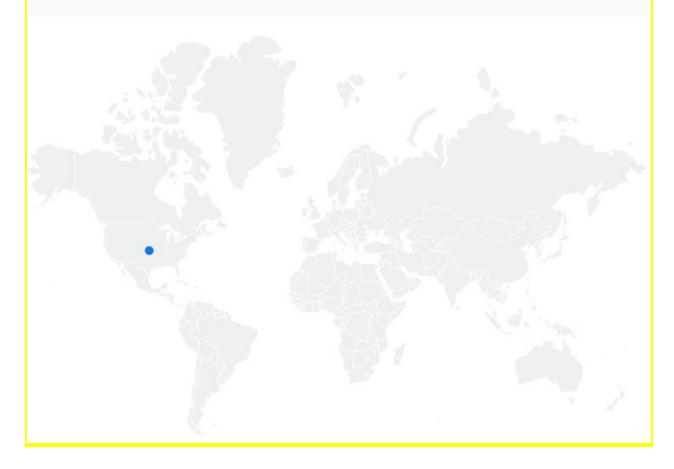
NETWORK

IP address 148.163.156.1

 Hostname
 mx0a-001b2d01.pphosted.com

 Provider
 PROOFPOINT-ASN-US-WEST

ASN 26211



mx0b-001b2d01.pphosted.com

LOCATION

Country United States (US)
Continent North America (NA)

Coordinates 37.751 (lat) / -97.822 (long)

Time 2020-08-28 02:16:09 (America/Chicago)

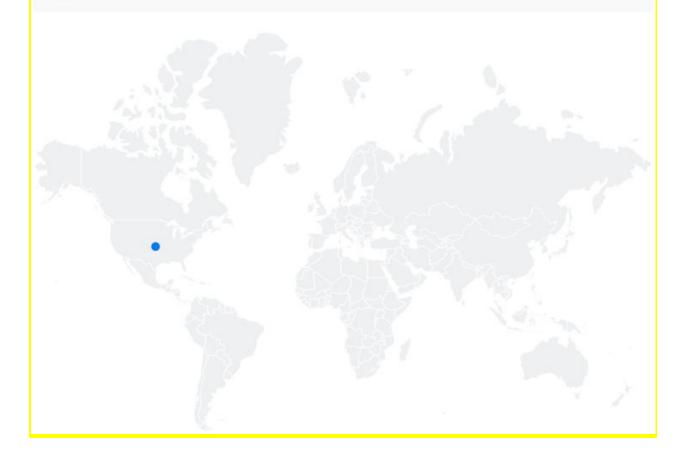
NETWORK

IP address 148.163.158.5

Hostname mx0b-001b2d01.pphosted.com

Provider PROOFPOINT-ASN-US-EAST

ASN 22843



Location of mail server of wipro.com:-

wipro-com.mail.protection.outlook.com

LOCATION

City Singapore

Postal code 18

Country Singapore (SG)
Continent Asia (AS)

Coordinates 1.2929 (lat) / 103.8547 (long)

Time 2020-08-28 15:21:26 (Asia/Singapore)

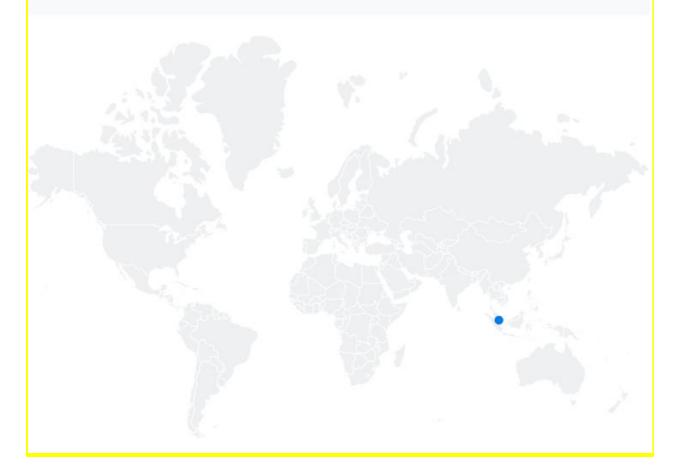
NETWORK

IP address 104.47.125.36

Hostname mail-sg2apc010036.inbound.protection.outlook.com

Provider MICROSOFT-CORP-MSN-AS-BLOCK

ASN 8075



Question 3:

Scan and find out port numbers open 203.163.246.23

Solution: -

Using simple command nmap -T4 -p- -vv -A 203.163.246.23 we get following results:

```
Extracting map 7, and 7, and 20, and 2
```

```
TRACEROUTE (using port 80/tcp)
HOP RTT
                ADDRESS
     2.00 ms 192.168.43.1
    44.00 ms 10.72.192.101
    44.00 ms 192.168.24.194
     45.00 ms 192.168.24.197
    45.00 ms 203.163.246.23
NSE: Script Post-scanning.
NSE: Starting runlevel 1 (of 3) scan.
Initiating NSE at 12:24
Completed NSE at 12:24, 0.00s elapsed
NSE: Starting runlevel 2 (of 3) scan.
Initiating NSE at 12:24
Completed NSE at 12:24, 0.00s elapsed
NSE: Starting runlevel 3 (of 3) scan.
Initiating NSE at 12:24
Completed NSE at 12:24, 0.00s elapsed
Read data files from: C:\Program Files (x86)\Nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 132.27 seconds
Raw packets sent: 131223 (5.778MB) | Rcvd: 110 (4.582KB)
```

we can also use a tool called **red hawk** to know the open ports commands to install and run red hawk

- 1.git clone https://github.com/Tuhinshubhra/RED_HAWK
- 2.cd RED_HAWK
- 3.php rhawk.php

enter the ip or domain name then find the open ports.

I used Kali VM for better performance.

Question 4:

Install nessus in a VM and scan your laptop/desktop for CVE.

Solution:

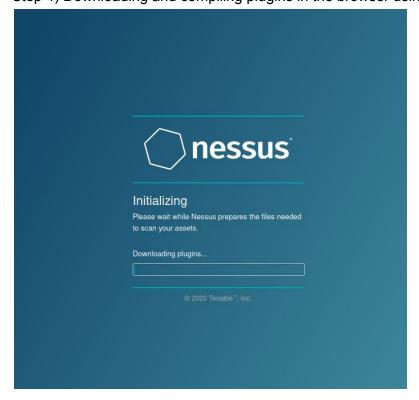
I downloaded Nessus on my PARROT Virtual machine because my system hangs up with KALI Linux

Step 1) Downloaded Nessus-8.11.1-debian6_amd64.deb from the official site.

Step 2) Installing Nessus using sudo dpkg -i Nessus-8.11.1-debian6_amd64.deb command.

Step 3) Starting Nessus Daemon service using sudo /bin/systemctl start Nessus.service command

Step 4) Downloading and compiling plugins in the browser using https://parrot:8834/ url.



Step 5) Started scan for ip = 127.0.0.1



Step 6) Report for the scan of the local system.

