

Assignment Day 4 | 23rd August 2020

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Question 1:

Find out the mail servers of the following domain:

- 1. Ibm.com
- 2.Wipro.com

Solution:-

Step 1:- Open command prompt.

Step 2:- Type "nslookup"

Step 3:- "set type=mx"

Step 4:- ibm.com

```
C:\Windows\system32>nslookup
Default Server: UnKnown
Address: 192.168.0.1

> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.0.1

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
>
```

Step 1:- Open command prompt.

Step 2:- Type "nslookup"

Step 3:- "set type=mx"

Step 4:- wipro.com

```
C:\Windows\system32>nslookup
Default Server: UnKnown
Address: 192.168.0.1

> set type=mx
> Wipro.com
Server: UnKnown
Address: 192.168.0.1

Non-authoritative answer:
Wipro.com
WX preference = 0, mail exchanger = wipro-com.mail.protection.outlook.com
>
```

Question 2:

Find the locations, where these email servers are hosted.

Solution:-

1)(a) ibm email server mx0a-001b2d01.pphosted.com

```
C:\Windows\system32>ping mx0a-001b2d01.pphosted.com
Pinging mx0a-001b2d01.pphosted.com [148.163.156.1] with 32 bytes of data:
Reply from 148.163.156.1: bytes=32 time=275ms TTL=243
Reply from 148.163.156.1: bytes=32 time=275ms TTL=243
Reply from 148.163.156.1: bytes=32 time=276ms TTL=243
Reply from 148.163.156.1: bytes=32 time=275ms TTL=243
Ping statistics for 148.163.156.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 275ms, Maximum = 276ms, Average = 275ms
```

LOCATION OF IBM (mx0a-001b2d01.pphosted.com) MAIL SERVER

LOCATION

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

Coordinates 37.751 (lat) / -97.822 (long)

Time 2020-08-25 10:42:57 (America/Chicago)

NETWORK

IP address 148.163.156.1

 Hostname
 mx0a-001b2d01.pphosted.com

 Provider
 PROOFPOINT-ASN-US-WEST

ASN 26211

1)(b) ibm email server mx0b-001b2d01.pphosted.com

```
C:\Windows\system32>ping mx0b-001b2d01.pphosted.com

Pinging mx0b-001b2d01.pphosted.com [148.163.158.5] with 32 bytes of data:
Reply from 148.163.158.5: bytes=32 time=258ms TTL=240
Reply from 148.163.158.5: bytes=32 time=260ms TTL=240
Reply from 148.163.158.5: bytes=32 time=258ms TTL=240
Reply from 148.163.158.5: bytes=32 time=258ms TTL=240

Ping statistics for 148.163.158.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 258ms, Maximum = 260ms, Average = 258ms
```

LOCATION OF IBM (mx0b-001b2d01.pphosted.com) MAIL SERVER

LOCATION

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

Coordinates 37.751 (lat) / -97.822 (long)

Time 2020-08-25 10:43:59 (America/Chicago)

NETWORK

IP address 148.163.158.5

 Hostname
 mx0b-001b2d01.pphosted.com

 Provider
 PROOFPOINT-ASN-US-EAST

ASN 22843

2) Wipro Email Server wipro-com.mail.protection.outlook.com

C:\Windows\system32>ping wipro-com.mail.protection.outlook.com

Pinging wipro-com.mail.protection.outlook.com [104.47.124.36] with 32 bytes of data:

LOCATION OF WIPRO MAIL SERVER

City Singapore

Postal code 18

Country Singapore (SG)
Continent Asia (AS)

Coordinates 1.2929 (lat) / 103.8547 (long)

Time 2020-08-25 23:50:37 (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:-

- Open Kali-pc
- Right click on the screen and Open Terminal
- Type:
- sudo su –
- Enter password
- Enter nmap –Pn –sS 203.163.246.23

Same response even with stealth scan:

o Nmap -Pn -sS -A -v 203.163.246.23

```
bpg@kali-pc-001: ~
                                                                                                                                                                                                                                                       bpg@kali-pc-001:~
  File Actions Edit View Help
SYN Stealth Scan Timing: About 75.05% done; ETC: 12:56 (0:00:50 remaining)
Stats: 0:02:54 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 85.50% done; ETC: 12:56 (0:00:29 remaining)
Completed SYN Stealth Scan at 12:56, 201.52s elapsed (1000 total ports)
Initiating Service scan at 12:56
Initiating OS detection (try #1) against 203.163.246.23
Initiating Traceroute at 12:56
Completed Traceroute at 12:56, 6.11s elapsed
Initiating Parallel DNS resolution of 5 hosts. at 12:56
Completed Parallel DNS resolution of 5 hosts. at 12:56
Completed Parallel DNS resolution of 5 hosts. at 12:56, 0.07s elapsed NSE: Script scanning 203.163.246.23.

Initiating NSE at 12:56
Completed NSE at 12:56, 0.07s elapsed
Completed NSE at 12:56, 0.07s elapsed
Initiating NSE at 12:56, 0.00s elapsed Completed NSE at 12:56, 0.00s elapsed Initiating NSE at 12:56, 0.00s elapsed Completed NSE at 12:56, 0.00s elapsed Nmap scan report for 203.163.246.23
 Host is up (0.0013s latency).
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
OS details: Actiontec MI424WR-GEN3I WAP, DD-WRT v24-sp2 (Linux 2.4.37), Linux 3.2, Linux 4.4, Microsoft Windows XP SP3,
 TRACEROUTE (using proto 1/icmp)
HOP RTT ADDRESS
HOP RTT ADDRESS
1 0.43 ms 192.168.157.2
2 2.83 ms 192.168.0.1
          2.92 ms 192.168.0.1
         2.86 ms 192.168.0.1
50.20 ms 172.16.3.101
          51.43 ms 172.16.3.101
           52.05 ms 172.25.115.27
           52.18 ms 172.25.115.27
          51.92 ms 172.25.115.27
         50.27 ms 172.16.0.57
... 30
 NSE: Script Post-scanning.
 Initiating NSE at 12:56
Completed NSE at 12:56, 0.00s elapsed
 Initiating NSE at 12:56
Completed NSE at 12:56, 0.00s elapsed
Completed NSE at 12:56, 0.00s etapsed
Initiating NSE at 12:56, 0.00s etapsed
Completed NSE at 12:56, 0.00s etapsed
Read data files from: /usr/bin/../share/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 210.68 seconds
Raw packets sent: 2091 (93.116KB) | Rcvd: 1424 (57.432KB)
```

Question 4:-

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

Solution:-

