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Day 4 Assignment (Cyber Security Essentials)

Solution:

Q1) Find out the mail servers of the following domain:

- Ibm.com
- Wipro.com

Open -> PenTester VMware workstation

Open -> Command Prompt

<mark>Type</mark>

> ipconfig

> nslookup

> www.lbm.com

> www.Wipro.com

```
www.Wipro.com
Server: www.routerlogin.com
Address:
         192.168.1.1
Non-authoritative answer:
Name: d361nqn33s63ex.cloudfront.net
Addresses: 2600:9000:215c:ec00:13:4f33:b240:93a1
         2600:9000:215c:b400:13:4f33:b240:93a1
          2600:9000:215c:c00:13:4f33:b240:93a1
          2600:9000:215c:6600:13:4f33:b240:93a1
          2600:9000:215c:ac00:13:4f33:b240:93a1
          2600:9000:215c:a600:13:4f33:b240:93a1
          2600:9000:215c:9600:13:4f33:b240:93a1
          2600:9000:215c:b000:13:4f33:b240:93a1
         13.249.221.103
         13.249.221.64
         13.249.221.39
         13.249.221.15
Aliases: www.Wipro.com
```

Q2) Find the locations, where these email servers are hosted.

Type

> set type=mx

> lbm.com

```
> set type=mx
> Ibm.com
Server: www.routerlogin.com
Address: 192.168.1.1

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

Location

Address 1

IP address or hostname

mx0a-001b2d01.pphosted.com

Find

LOCATION

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

Coordinates 37.751 (lat) / -97.822 (long)

Time 2020-08-26 05:26:29 (America/Chicago)

NETWORK

IP address 148.163.156.1

Hostname mx0a-001b2d01.pphosted.com
Provider PROOFPOINT-ASN-US-WEST

ASN 26211

Address 2

IP address or hostname

mx0b-001b2d01.pphosted.com

Find

LOCATION

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

Coordinates 37.751 (lat) / -97.822 (long)

Time 2020-08-26 05:27:30 (America/Chicago)

NETWORK

IP address 148.163.158.5

 Hostname
 mx0b-001b2d01.pphosted.com

 Provider
 PROOFPOINT-ASN-US-EAST

ASN 22843

> Wipro.com

> Wipro.com

Server: www.routerlogin.com

Address: 192.168.1.1

Non-authoritative answer:

Wipro.com MX preference = 0, mail exchanger = wipro-com.mail.protection.outlook.com

Location

Address

IP address or hostname

Wipro-com.mail.protection.outlook.com

Find

LOCATION

City Singapore

Postal code 18

Country Singapore (SG)
Continent Asia (AS)

Coordinates 1.2929 (lat) / 103.8547 (long)

Time 2020-08-27 13:04:43 (Asia/Singapore)

NETWORK

IP address 104.47.125.36

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

Provider MICROSOFT-CORP-MSN-AS-BLOCK

ASN 8075

Q3) Scan and find out port numbers open 203.163.246.23

Use -> Kali

Type

- > sudo su –
- > Enter password
- > nmap -Pn -sS 203.163.246.23

```
bpg@kali-pc-001: ~/Desktop
                                                                           Actions
              Edit
                    View Help
               :~/Desktop$ sudo su -
[sudo] password for bpg:
root@kali-pc-001:~# nmap -Pn -sS 203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-26 05:12 PDT
Stats: 0:02:21 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth
Scan
SYN Stealth Scan Timing: About 63.00% done; ETC: 05:15 (0:01:15 remaining)
Nmap scan report for 203.163.246.23
Host is up.
All 1000 scanned ports on 203.163.246.23 are filtered
Nmap done: 1 IP address (1 host up) scanned in 215.64 seconds
root@kali-pc-001:~#
```

Some extra alternative commands

```
> -sS -v -v -Pn 203.163.246.23
```

- > nmap -6 203.163.246.23
- > nmap -p 22,25,135 -Pn -v -b 203.163.246.23 scanme.nmap.org
- > nmap -vv -n -sS -Pn --ip-options "L 203.163.246.23 " --reason 203.163.246.23

```
File Actions Edit View Help

File Actions All Actions Inap. Or Action Provided Inap. Or Act
```

Q4) Install nessus in a VM and scan your laptop/desktop for CVE











