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Email: parthiv7911@gmail.com

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

Ibm.com Wipro.com

1) Command:

nslookup ibm.com nslookup –type=mx ibm.com

```
Microsoft Windows [Version 10.0.16299.15]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Kuldip_Panchal>nslookup ibm.com
Server: UnKnown
Address: 192.168.43.1

Non-authoritative answer:
Name: ibm.com
Address: 129.42.38.10

C:\Users\Kuldip_Panchal>nslookup -tye=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
C:\Users\Kuldip_Panchal>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=1170ms TTL=245
Reply from 148.163.158.5: bytes=32 time=923ms TTL=245
Reply from 148.163.158.5: bytes=32 time=903ms TTL=245
Reply from 148.163.158.5: bytes=32 time=903ms TTL=245
```

2) Command:

nslookup wipro.com nslookup –type=mx wipro.com

```
Microsoft Windows [Version 10.0.16299.15]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\Kuldip_Panchal>nslookup wipro.com
Server: UnKnown
Address: 192.168.43.1

Non-authoritative answer:
Name: wipro.com
Address: 209.11.159.61

C:\Users\Kuldip_Panchal>nslookup -type=mx wipro.com
Server: UnKnown
Address: 192.168.43.1

Non-authoritative answer:
wipro.com MX preference = 0, mail exchanger = wipro-com.mail.protection.outlook.com
wipro.com nameserver = ns1.webindia.com
wipro.com nameserver = ns2.webindia.com
wipro.com nameserver = ns3.webindia.com
C:\Users\Kuldip_Panchal>ping wipro-com.mail.protection.outlook.com
Pinging wipro-com.mail.protection.outlook.com
Pinging wipro-com.mail.protection.outlook.com [104.47.124.36] with 32 bytes of data:
Request timed out.
```

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

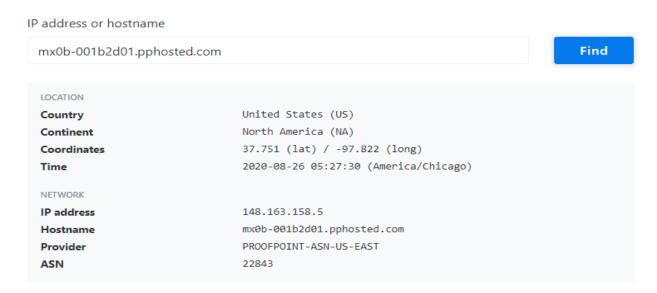
Open google chrome

Open IP Location Finder

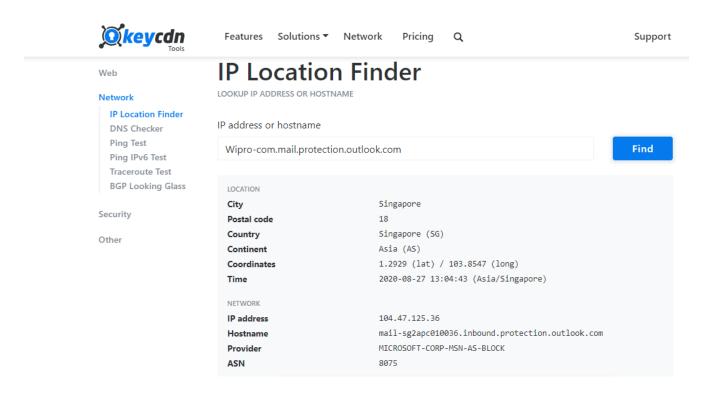
Address 1: For ibm Mailserver location



Address 2: For ibm Mailserver location



Address 1 : For wipro mail server location



Q3.Scan and find out port numbers open 203.163.246.23

Open Kali-pc

Right click on the screen and Open Terminal

Type:

sudosu -

Enter password

Enter - nmap -Pn -sS 203.163.246.23

Cybersecurity assignment-1(Day-4)

```
bpg@kali-pc-001:~/Desktop

bpgakali-pc-001:~/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:~#
```

As it is coming filtered due to firewall protection we try some other ways of breaking the firewall

Enter: -sS -v -v -Pn 203.163.246.23

For me it is still coming filtered so I'll further use the following command

Enter: nmap -6203.163.246.23

Again it is coming filtered for me so I'll further use the following command

Enter: nmap -p 22,25,135 -Pn -v -b203.163.246.23scanme.nmap.org

Again it is coming filtered for me so I'll further use the following command

Enter: nmap -vv -n -sS -Pn --ip-options "L203.163.246.23" --reason203.163.246.23

Now I get only one port open as shown below

Cybersecurity assignment-1(Day-4)

```
bpg@kali-pc-001:~
         File Actions Edit View Help
   File Actions Edit View Help

MagMAil-pc-MAi:-$ sudo su -

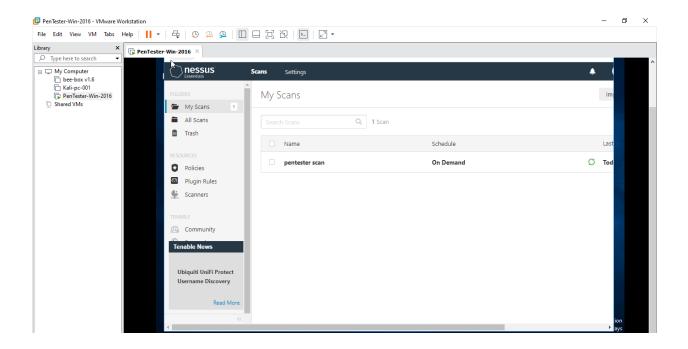
[sudo] password for bpg:
rootakali-pc-001:-# nmap -sS -v -v -Pn -g 88 203.163.246.23

Starting Nmap 7.80 (https://nmap.org ) at 2020-08-26 08:31 PDT
Initiating Parallel DNS resolution of 1 host. at 08:31
Completed Parallel DNS resolution of 1 host. at 08:31, 0.49s elapsed
Initiating SYN Stealth Scan at 08:31
Scanning 203.163.246.23 [1000 ports]
SYN Stealth Scan Timing: About 15.50% done; ETC: 08:34 (0:02:49 remaining)
SYN Stealth Scan Timing: About 45.00% done; ETC: 08:34 (0:02:22 remaining)
SYN Stealth Scan Timing: About 45.00% done; ETC: 08:34 (0:01:51 remaining)
SYN Stealth Scan Timing: About 45.00% done; ETC: 08:34 (0:01:51 remaining)
SYN Stealth Scan Timing: About 74.50% done; ETC: 08:34 (0:01:52 remaining)
SYN Stealth Scan Timing: About 74.50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 74.50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 70:30% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 70:30% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 remaining)
SYN Stealth Scan Timing: About 50:50% done; ETC: 08:34 (0:00:52 re
   Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 204.44 seconds
Raw packets sent: 2000 (88.000KB) | Rcvd: 0 (0B)
root@kali-pc-001:-# nmap -6 203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-26 08:36 PDT
Warning: Nostname 203.163.246.23 resolves, but not to any IPv6 address. Try
scanning without -6
Failed to resolve "203.163.246.23".
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 0.04 seconds
root@kali-pc-001:-# nmap -p 22,25,135 -Pn -v -b 203.163.246.23 scanme.nmap.org
     Trg Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-26 08:38 PDT Resolved FTP bounce attack proxy to 203.163.246.23 (203.163.246.23). Failed to resolve *scanme.nmap.org*.
nouse pointer inside or press Ctrl+G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          bpg@kali-pc-001:~
         File Actions Edit View Help
       Failed to resolve "203.163.246.23".
WARNING: No targets were specified, so 0 hosts scanned.
Namp done: 0 IP addresses (0 hosts up) scanned in 0.04 seconds
root@kali-pc-001:-# nmap -p 22,25,135 -Pn -v -b 203.163.246.23 scanme.nmap.o
   rootakali-pc-001:-# nmap -p 22,75,135 -Pn -v -b 203.163.246.23 scanme.nmap.org
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-26 08:38 PDT
Resolved FTP bounce attack proxy to 203.163.246.23 (203.163.246.23).
Failed to resolve "scanme.nmap.org".
Read data files from: /usr/bin/../share/nmap
WARNING: No targets were specified, so 0 hosts scanned.
Nmap done: 0 IP addresses (0 hosts up) scanned in 10.05 seconds
rootakali-pc-001:-# nmap -vv -n -sS -Pn -ip-options "L 203.163.246.23" -re
ason 203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-26 08:41 PDT
Initiating SYN Stealth Scan at 08:41
Scanning 203.163.246.23 [1000 ports]
Completed SYN Stealth Scan at 08:41, 1.35s elapsed (1000 total ports)
Nmap scan report for 203.163.246.23
Host is up, received user-set (0.002/s latency).
Scanned at 2020-08-26 08:41:11 PDT for 2s
Not shown: 999 closed ports
Reason: 999 resets
PORT STATE SERVICE REASON
S14/tcp filtered shell no-response
         Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 1.40 seconds
Raw packets sent: 1001 (56.056KB) | Rcvd: 999 (39.960KB)
root@kali-pc-001:~# |
nouse pointer inside or press Ctrl+G.
```

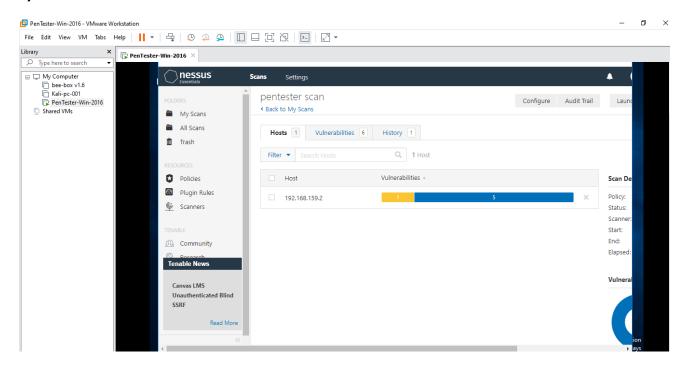
*I get only 1 port open which is 514/tcp

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

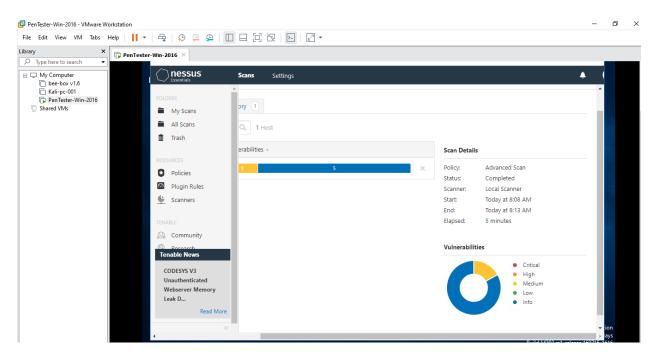
1)



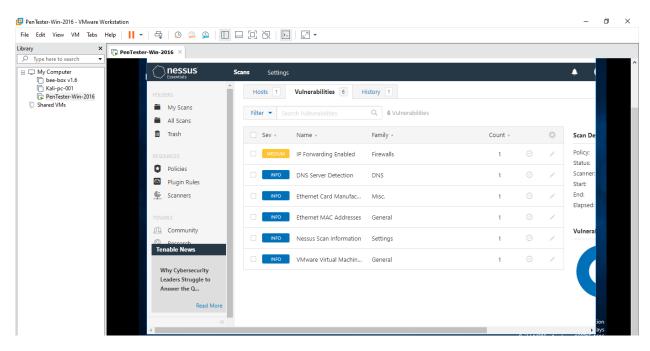
2)



3)



4)



5)

