

## Assignment Day 4 | 23rd August 2020

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Name: Athira Rajeev

Email: athirarajeev777@gmail.com

### Question 1:

Find out the mail servers of the following domain :

[ibm.com](http://ibm.com)

[Wipro.com](http://wipro.com)

Solution:

Step 1 - open cmd on windows

Step 2 - write command "nslookup"

Step 3 - type command "set type=mx" and then type site name

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

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

```
> www.ibm.com
Server: UnKnown
Address: 192.168.30.2

Non-authoritative answer:
Name: e2874.dscx.akamaiedge.net
Addresses: 2600:140f:3:a98::b3a
           2600:140f:3:a9c::b3a
           184.26.102.14
Aliases: www.ibm.com
          www.ibm.com.cs186.net
          outer-ccdn-dual.ibmcom.edgekey.net
          outer-ccdn-dual.ibmcom.edgekey.net.globalredir.akadns.net
```

```
> www.wipro.com
Server: UnKnown
Address: 192.168.30.2

Non-authoritative answer:
Name: d361nqn33s63ex.cloudfront.net
Addresses: 2600:9000:20bd:f200:13:4f33:b240:93a1
           2600:9000:20bd:b000:13:4f33:b240:93a1
           2600:9000:20bd:9000:13:4f33:b240:93a1
           2600:9000:20bd:9600:13:4f33:b240:93a1
           2600:9000:20bd:6200:13:4f33:b240:93a1
           2600:9000:20bd:8800:13:4f33:b240:93a1
           2600:9000:20bd:a600:13:4f33:b240:93a1
           2600:9000:20bd:a200:13:4f33:b240:93a1
           13.227.165.72
           13.227.165.24
           13.227.165.111
           13.227.165.54
Aliases: www.wipro.com
```

## Question 2:

Find the locations, where these email servers are hosted.

Solution:

Step 1 - type command "set type=mx" and then type site name

```
> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.30.2

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
>
```

Step 2 - Open google chrome. Open IP Location Finder

Step 3 - Copy paste the url and find the location

Location of mail server of ibm.com =

mx0a-001b2d01.pphosted.com

mx0b-001b2d01.pphosted.com

Find

### LOCATION

Country	United States (US)
Continent	North America (NA)
Coordinates	37.751 (lat) / -97.822 (long)
Time	2020-08-29 05:49:46 (America/Chicago)

### NETWORK

IP address	148.163.156.1
Hostname	mx0a-001b2d01.pphosted.com
Provider	PROOFPOINT-ASN-US-WEST
ASN	26211

Find

### LOCATION

Country	United States (US)
Continent	North America (NA)
Coordinates	37.751 (lat) / -97.822 (long)
Time	2020-08-29 05:50:32 (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

```
> wipro.com
Server: UnKnown
Address: 192.168.30.2

Non-authoritative answer:
wipro.com      MX preference = 0, mail exchanger = 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	2020-08-29 18:52:42 (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

Step 1 - Open Kali pc

Step 2 - Open terminal in kali Linux

Step 3 - Type command:

sudo su -

Enter password

nmap -Pn -sS 203.163.246.23

```
bpg@kali-pc-001: ~/De... 05:57 AM
bpg@kali-pc-001: ~/Desktop
File Actions Edit View Help
bpg@kali-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 2020-08-29 05:45 PDT
mass_dns: warning: Unable to determine any DNS servers. Reverse DNS is disabled. Try using --system-dns or specify valid servers with --dns-servers
Stats: 0:00:08 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 33.20% done; ETC: 05:45 (0:00:18 remaining)
Stats: 0:00:31 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 44.45% done; ETC: 05:46 (0:00:40 remaining)
Stats: 0:00:32 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 44.60% done; ETC: 05:46 (0:00:41 remaining)
Stats: 0:00:42 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 87.85% done; ETC: 05:53 (0:01:02 remaining)
Stats: 0:09:22 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 93.60% done; ETC: 05:55 (0:00:38 remaining)
Stats: 0:09:57 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 95.20% done; ETC: 05:55 (0:00:30 remaining)
Stats: 0:10:47 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 97.40% done; ETC: 05:56 (0:00:17 remaining)
Stats: 0:11:23 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 99.05% done; ETC: 05:56 (0:00:07 remaining)
Nmap scan report for 203.163.246.23
Host is up (0.058s latency).
```

```
bpg@kali-pc-001: ~/De... 05:58 AM
bpg@kali-pc-001: ~/Desktop
File Actions Edit View Help
SYN Stealth Scan Timing: About 97.40% done; ETC: 05:56 (0:00:17 remaining)
Stats: 0:11:23 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 99.05% done; ETC: 05:56 (0:00:07 remaining)
Nmap scan report for 203.163.246.23
Host is up (0.058s latency).
Not shown: 984 filtered ports
PORT      STATE SERVICE
21/tcp    open  ftp
81/tcp    closed hosts2-ns
465/tcp   closed smtps
554/tcp   open  rtsp
903/tcp   closed iss-console-mgr
1108/tcp  closed ratio-adp
1719/tcp  closed h323gatestat
1723/tcp  open  pptp
2107/tcp  closed msmq-mgmt
2500/tcp  closed rtsserv
2869/tcp  closed icslap
3052/tcp  closed powerchute
5000/tcp  closed upnp
5989/tcp  closed wbem-https
19315/tcp closed keyshadow
49175/tcp closed unknown

Nmap done: 1 IP address (1 host up) scanned in 705.93 seconds
root@kali-pc-001:~#
```

#### **Question 4:**

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

Solution:

Step 1 - Open PenTester in VMware workstation

Step 2 - Install Google Chrome. Install Nessus

Step 3 -

- Click on All scans
- Create a new scan
- Advance settings
- Windows
- Fill the required blanks in credentials as well
- Launch

nessus

Essentials

Scans

Settings

FOLDERS

My Scans

All Scans

Trash

RESOURCES

Policies

Plugin Rules

Scanners

TENABLE

Community

Research

Tenable News

How to Achieve 20/20 Visibility in Your OT Security...

Read More

My Scans

Search Scans

1 Scan

Name

Schedule

Last Modified

PenTester

On Demand

Today at 5:09 AM

nessus

Essentials

Scans

Settings

FOLDERS

My Scans

All Scans

Trash

RESOURCES

Policies

Plugin Rules

Scanners

TENABLE

Community

Research

PenTester

Back to My Scans

Configure

Audit Trail

Launch

Hosts

Vulnerabilities

History

Filter

Search Hosts

1 Host

Host

Vulnerabilities

192.168.30.2

2

6

Scan Details

Policy:

Status:

Scanner:

Start:

End:

Elapsed:

Vulnerabilities



ScansSettings

FOLDERS

- My Scans
- All Scans
- Trash

RESOURCES

- Policies
- Plugin Rules
- Scanners

TENABLE

- Community
- Research

Tenable News

Canvas LMS  
Unauthenticated Blind SSRF

Read More

PenTester

ConfigureAudit TrailLaunch

Back to My Scans

Hosts1Vulnerabilities6History2

FilterSearch Vulnerabilities6 Vulnerabilities

Sev	Name	Family	Count		
MIXED	DNS (Multiple Iss...	DNS	3		
MEDIUM	IP Forwarding Enabled	Firewalls	1		
INFO	Ethernet Card Manufac...	Misc,	1		
INFO	Ethernet MAC Addresses	General	1		
INFO	Nessus Scan Information	Settings	1		
INFO	VMware Virtual Machin...	General	1		

Scan Details

Policy:Ad  
Status:Cor  
Scanner:Loc  
Start:To  
End:To  
Elapsed:4 m

Vulnerabilities

ScansSettings

FOLDERS

- My Scans
- All Scans
- Trash

RESOURCES

- Policies
- Plugin Rules
- Scanners

TENABLE

- Community
- Research

Tenable News

IBM Spectrum Protect  
CertQryResp  
Unauthenticated R...

Read More

PenTester

ConfigureAudit TrailLaunch

Back to My Scans

Hosts1Vulnerabilities6History2

Search History2 Histories

Start Time	Last Modified	Status	
Current Today at 5:1...	Today at 5:18 AM	Completed	
Today at 5:09 AM	Today at 5:13 AM	Completed	

Scan Details

Policy:Ad  
Status:Cor  
Scanner:Loc  
Start:To  
End:To  
Elapsed:4 m

Vulnerabilities