

# Lets Upgrade| Cyber security

## *Assignment Day4| 28 August 2020*

*Name :Abdul nafih.k*

*Registered email:abdulnafih160@gmail.com*

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1 .Find out the mail servers of the following domain

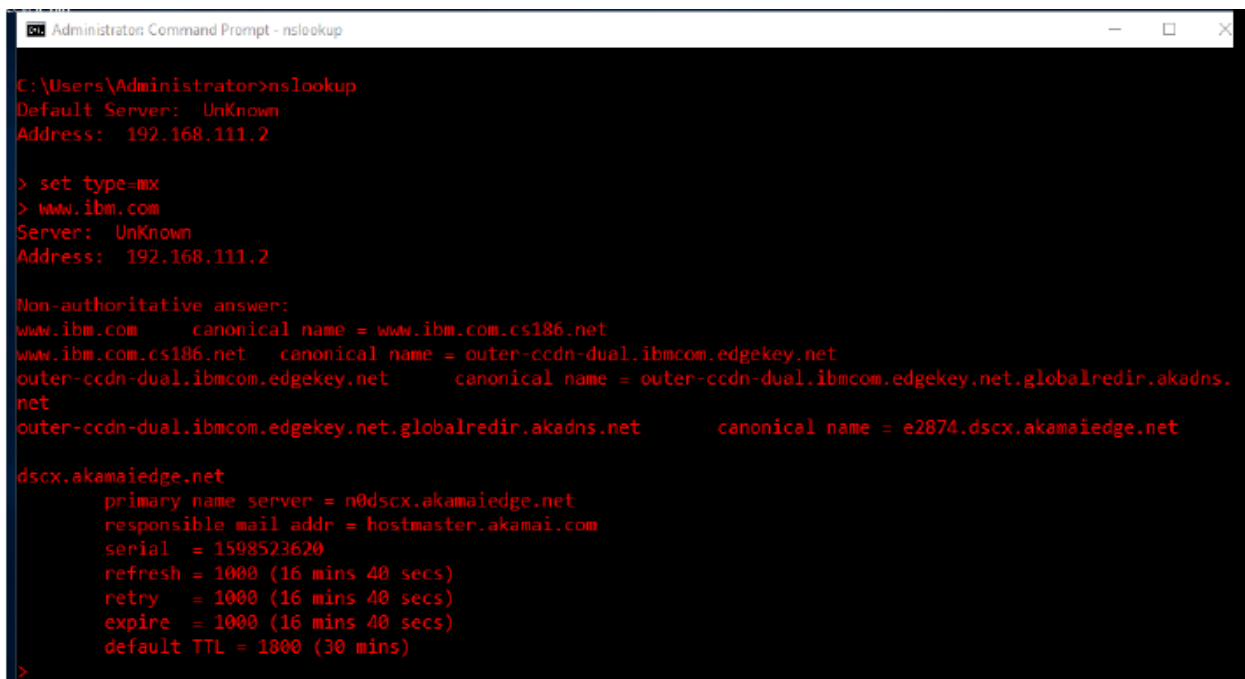
a)lbm.com

Steps:

1:-open cmd using search cmd in windows search box

2:-Type nslookup open the nslookup tool

3:-Type command set type=mx ,then >(type targets id eg;www.lbm.com)



```
Administrator: Command Prompt - nslookup

C:\Users\Administrator>nslookup
Default Server: UnKnown
Address: 192.168.111.2

> set type=mx
> www.ibm.com
Server: UnKnown
Address: 192.168.111.2

Non-authoritative answer:
www.ibm.com canonical name = www.ibm.com.cs186.net
www.ibm.com.cs186.net canonical name = outer-ccdn-dual.ibmcom.edgekey.net
outer-ccdn-dual.ibmcom.edgekey.net canonical name = outer-ccdn-dual.ibmcom.edgekey.net.globalredir.akadns.net
outer-ccdn-dual.ibmcom.edgekey.net.globalredir.akadns.net canonical name = e2874.dscx.akamaiedge.net
dscx.akamaiedge.net
primary name server = n0dscx.akamaiedge.net
responsible mail addr = hostmaster.akamai.com
serial = 1598523620
refresh = 1000 (16 mins 40 secs)
retry = 1000 (16 mins 40 secs)
expire = 1000 (16 mins 40 secs)
default TTL = 1800 (30 mins)
>
```

## b)Wipro.com

### Steps:

1:-open cmd using search cmd in windows search box

2:-Type nslookup open the nslookup tool

3:-Type command set type=mx ,then >(type targets id eg;www.wipro.com)

```
C:\Users\Administrator>nslookup
Default Server: UnKnown
Address: 192.168.111.2

> set type=mx
> www.wipro.com
Server: UnKnown
Address: 192.168.111.2

Non-authoritative answer:
www.wipro.com canonical name = d361nqn33s63ex.cloudfront.net

d361nqn33s63ex.cloudfront.net
primary name server = ns-1658.awsdns-15.co.uk
responsible mail addr = awsdns-hostmaster.amazon.com
serial = 1
refresh = 7200 (2 hours)
retry = 900 (15 mins)
expire = 1209600 (14 days)
default TTL = 86400 (1 day)
>
```

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

### a) ibm.com

Step 1: Open CMD >type and enter ***nslookup> set type=mx> ibm.com***

```
Administrator: Command Prompt

outer-ccdn-dual.ibmcom.edgekey.net
outer-ccdn-dual.ibmcom.edgekey.net.globalredir.akadns.net

> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.111.2

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

ibm.com nameserver = asia3.akam.net
ibm.com nameserver = ns1-99.akam.net
ibm.com nameserver = usw2.akam.net
ibm.com nameserver = eur2.akam.net
ibm.com nameserver = ns1-206.akam.net
ibm.com nameserver = eur5.akam.net
ibm.com nameserver = usc3.akam.net
ibm.com nameserver = usc2.akam.net
```

Step2: Open a browser and go to

<https://tools.keycdn.com/geo?host=mx0a-001b2d01.pphosted.com>

**Address 1:** mx0b-001b2d01.pphosted.com

IP address or hostname

Find

#### LOCATION

<b>Country</b>	United States (US)
<b>Continent</b>	North America (NA)
<b>Coordinates</b>	37.751 (lat) / -97.822 (long)
<b>Time</b>	2020-08-27 06:50:37 (America/Chicago)

#### NETWORK

<b>IP address</b>	148.163.158.5
<b>Hostname</b>	mx0b-001b2d01.pphosted.com
<b>Provider</b>	PROOFPOINT-ASN-US-EAST
<b>ASN</b>	22843

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	2020-08-27 06:54:04 (America/Chicago)

NETWORK

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

## b) wipro.com

Step 1: Open CMD >type and enter *nslookup> set type=mx> wipro.com*

Administrator: Command Prompt - nslookup

```
Server: UnKnown
Address: 192.168.111.2

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

>
> set type=mx
> wipro.com
Server: UnKnown
Address: 192.168.111.2

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
ns1.webindia.com internet address = 50.16.170.116
>
```

Step 2: Open a browser and go to

<https://tools.keycdn.com/geo?host=mx0a-001b2d01.pphosted.com>

or any other IP location finder. Enter the IP address/hostname to get the results.

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 20:12:49 (Asia/Singapore)

NETWORK

IP address	104.47.125.36
Hostname	mail-sg2apc010036.inbound.protection.outlook.com
Provider	MICROSOFT-CORP-MSN-AS-BLOCK
ASN	8075

### 3.Scan and find out port numbers open 203.163.246.23

Step 1: Open the terminal and go to administrator mode

Command: `sudo su -` (enter password and hit enter to enter administrator mode)

Step 2: In order to detect the open ports type `nmap 203.163.246.23` and hit enter

```
root@kali:~# nmap 203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-27 12:12 EDT
Nmap scan report for 203.163.246.23
Host is up (0.061s latency).
Not shown: 999 filtered ports
PORT      STATE SERVICE
110/tcp   open  pop3
Nmap done: 1 IP address (1 host up) scanned in 55.26 seconds
```

```
File Actions Edit View Help
kali@kali:~$ sudo su -
[sudo] password for kali:
root@kali:~# nmap -Pn -sS 203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-27 11:44 EDT
Stats: 0:01:35 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 69.70% done; ETC: 11:46 (0:00:41 remaining)
Stats: 0:02:57 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 81.30% done; ETC: 11:48 (0:00:41 remaining)
Stats: 0:03:02 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 81.65% done; ETC: 11:48 (0:00:41 remaining)
Stats: 0:03:50 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 85.00% done; ETC: 11:49 (0:00:41 remaining)
Stats: 0:04:47 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 87.55% done; ETC: 11:50 (0:00:41 remaining)
Stats: 0:07:57 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 96.10% done; ETC: 11:52 (0:00:19 remaining)
Nmap scan report for 203.163.246.23
Host is up (0.0046s latency).
Not shown: 998 filtered ports
PORT      STATE SERVICE
25/tcp    closed smtp
110/tcp   open  pop3

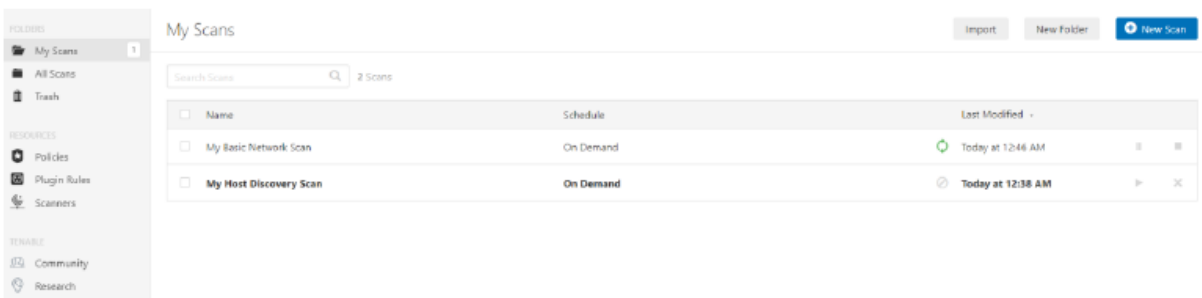
Nmap done: 1 IP address (1 host up) scanned in 504.59 seconds
root@kali:~#
```

## 4.Install Nessus in a vm and scan your laptop/Desktop for CVE

Step 1: Open Pentester-Win 2016 VM and install Nessus in it and open it in a suitable browser.

Step 2: Enter the Ipv4 address of your machine in the popup box and start Scanning.

Step 3: The scan is now running. Wait for few seconds until the scan is over.



Step 4: Once the Scan is over, we can see the reports. (Click the Vulnerabilities tab to view the reports)

FOLDERS

My Scans1

All Scans

Trash

RESOURCES

Policies

Plugin Rules

Scanners

TENABLE

Community

Research

Tenable News

My Basic Network Scan

[Back to My Scans](#)

ConfigureAudit TrailLaunchReportExport

Hosts1Vulnerabilities14History1

Search History1 History

<input type="checkbox"/>	Start Time -	Last Modified	Status	
<input type="checkbox"/>	Current Today at 12:38 AM	Today at 12:51 AM	✓ Completed	✕

Scan Details

Policy:Basic Network Scan

Status:Completed


Scanner:Local Scanner

Start:Today at 12:38 AM

End:Today at 12:51 AM

Elapsed:13 minutes

Vulnerabilities



Critical

High

Medium

Low

Info