ASSIGNMENT – DAY 4

1. Mail server for

a. ibm.com

```
kali@kali:~$ nslookup -type=mx ibm.scomg. It is possible to bypass
                192.168.65.2
Server:
Address:
                192.168.65.2#53
Non-authoritative answer:
ibm.com mail exchanger = 5 mx0a-001b2d01.pphosted.compossible
ibm.com mail exchanger = 5 mx0b-001b2d01.pphosted.com.or lowe
Authoritative answers can be found from:
ibm.com nameserver = eur2.akam.net."
ibm.com nameserver = usc3.akam.net.
ibm.com nameserver = usw2.akam.net.applied) can also be included in to
ibm.com nameserver = ns1-206.akam.neter more regexps
ibm.com nameserver = asia3.akam.net.
ibm.com nameserver = eur5.akam.net.
ibm.com nameserver = ns1-99.akam.netecified, regex
ibm.com nameserver = usc2.akam3net.. symbol, which
                internet address = 184,26,161.64
ns1-99.akam.net internet address = 193.108.91.99
ns1-99.akam.net has AAAA address 2600:1401:2::63
asia3.akam.net
                internet address = 23,211,61,64 be vulne
                internet address = 23.74.25,64 ReDo
eur5.akam.net
eur2.akam.net
                internet address = 95.100.173.64
usc3.akam.net
                internet address = 96.7.50.64
                internet address = 184.26.160.64
usc2.akam.net
ns1-206.akam.net
                         internet address = 193,108.91.206
ns1-206.akam.net
                         has AAAA address 2600:1401:2::ce
```

You can see in above picture that it has 2 mail servers.

mx0a-001b2d01.pphosted.com.

mx0b-001b2d01.pphosted.com.

b. wipro.com

```
kali@kali:~$ nslookup -type=mx wiprorloom is possible to bypass regex by
                192.168.65.2
Server:
Address:
                192.168.65.2#53
Non-authoritative answer:
wipro.com mail exchanger = 0 wipro_com_mail.protection.outlook.com.
Authoritative answers can be found from: words Modsecurity
wipro.com nameserver = ns4.webindia.com.
                nameserver = ns1.webindia.com.
wipro.com
wipro.com nameserver = ns2.webindia.com.
ns4.webindia.com internet address = 154.66.00.69ded in tests to
ns2.webindia.com
                     internet address = 34,235.29.171 internet address = 50.16.170.116
ns1.webindia.com
```

It has only one server.

Q2. Location of these servers.

a. ibm.com

for this site both servers are hosted in same place on different machines.

Mx Record	mx0a-001b2d01.pphosted.com
IP	148.163.156.1
Status	Success
Test duration(ms)	69
AS Number	AS26211
Organization	Proofpoint, Inc.
Domain	proofpoint.com
Country	United States
Abuse Contact	Network: 148.163.128.0/19
	Name: Proofpoint ARIN Abuse
	Email: abuse@proofpoint.com
	Phone: +1-801-748-4494
	Address: US, UT, Draper, 13997 S Minuteman Dr, 84020
	Country: US

Mx Record mx0b-001b2d01.pphosted.com

IP 148.163.158.5

Status Success

Test duration(ms) 21

AS Number AS22843

Organization Proofpoint, Inc.

Domain proofpoint.com

Country United States

Abuse Contact Network: 148.163.128.0/19

Name: Proofpoint ARIN Abuse Email: abuse@proofpoint.com Phone: +1-801-748-4494

Address: US, UT, Draper, 13997 S Minuteman Dr, 84020

Country: US

b. wipro.com

the server is hosted in place as shown below.

Mx Record wipro-com.mail.protection.outlook.com

P 104.47.126.36

Status Success

Test duration(ms) 192

AS Number AS8075

Organization Microsoft Corporation

Domain microsoft.com

Country South Korea

Abuse Contact Network: 104.40.0.0/13

Name: Microsoft Abuse Contact Email: abuse@microsoft.com Phone: +1-425-882-8080

Address: US, WA, Redmond, One Microsoft Way, 98052

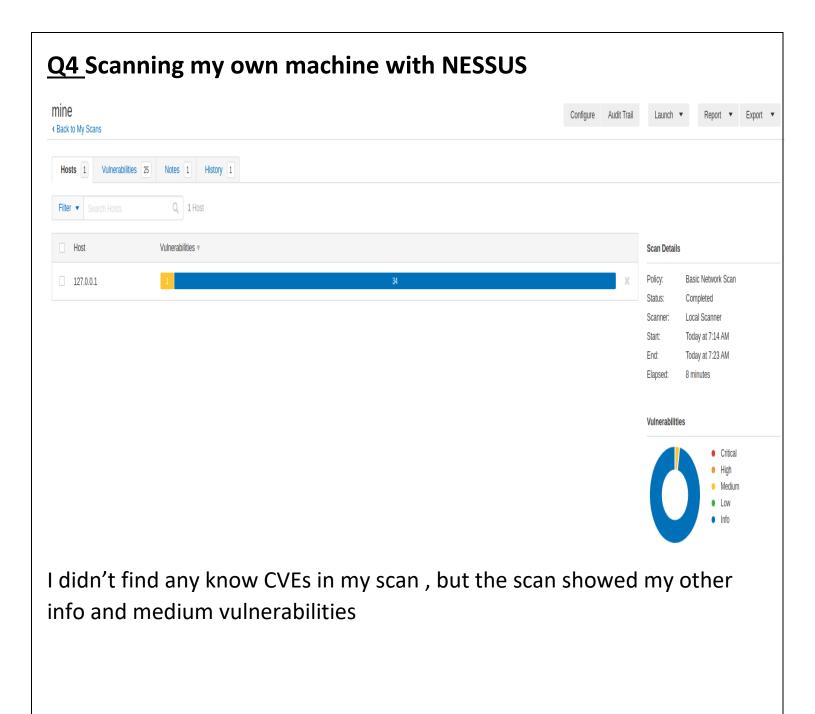
Country: US

For the location I have used online tool https://dnschecker.org/mx-lookup.php

Q3 Scanning open ports for 203.163.246.23

All the ports were behind firewall, i.e filtered.

```
kali@kali:~$ sudo nmap -sS -Pn 203.163.246.23 -p1-4000
Starting Nmap 7.80 ( https://nmap.org ) at 2020-09-01 03:33                    EDT
Stats: 0:02:32 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 18.99% done; ETC: 03:46 (0:10:53 remaining)
Stats: 0:05:27 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 40.75% done; ETC: 03:46 (0:07:57 remaining)
Stats: 0:09:22 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 70.00% done; ETC: 03:46 (0:04:01 remaining)
Stats: 0:09:50 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 73.50% done; ETC: 03:46 (0:03:33 remaining)
Stats: 0:11:27 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 85.62% done; ETC: 03:46 (0:01:56 remaining)
Stats: 0:11:43 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 87.62% done; ETC: 03:46 (0:01:39 remaining)
Stats: 0:13:02 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan
SYN Stealth Scan Timing: About 97.45% done; ETC: 03:46 (0:00:20 remaining)
Nmap scan report for 203.163.246.23
Host is up.
All 4000 scanned ports on 203.163.246.23 are filtered
```



127.0.0.1

0	0		0	32
CRITICAL	HIGH	MEDIUM	LOW	INFO

Vulnerabilities Total: 33

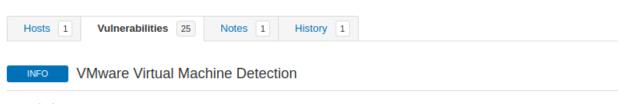
V dill'ol dibillido			Total. 00
SEVERITY	CVSS	PLUGIN	NAME
MEDIUM	6.4	51192	SSL Certificate Cannot Be Trusted
INFO	N/A	12634	Authenticated Check : OS Name and Installed Package Enumeration
INFO	N/A	110695	Authentication Success - Local Checks Not Available
INFO	N/A	45590	Common Platform Enumeration (CPE)
INFO	N/A	55472	Device Hostname
INFO	N/A	54615	Device Type
INFO	N/A	25203	Enumerate IPv4 Interfaces via SSH
INFO	N/A	25202	Enumerate IPv6 Interfaces via SSH
INFO	N/A	33276	Enumerate MAC Addresses via SSH
INFO	N/A	35716	Ethernet Card Manufacturer Detection
INFO	N/A	86420	Ethernet MAC Addresses
INFO	N/A	10107	HTTP Server Type and Version
INFO	N/A	12053	Host Fully Qualified Domain Name (FQDN) Resolution
INFO	N/A	24260	HyperText Transfer Protocol (HTTP) Information
INFO	N/A	117886	Local Checks Not Enabled (info)
INFO	N/A	19506	Nessus Scan Information
INFO	N/A	10147	Nessus Server Detection
INFO	N/A	58651	Netstat Active Connections
INFO	N/A	64582	Netstat Connection Information

INFO	N/A	14272	Netstat Portscanner (SSH)
INFO	N/A	11936	OS Identification
INFO	N/A	97993	OS Identification and Installed Software Enumeration over SSH v2 (Using New SSH Library)
INFO	N/A	56984	SSL / TLS Versions Supported
INFO	N/A	45410	SSL Certificate 'commonName' Mismatch
INFO	N/A	10863	SSL Certificate Information
INFO	N/A	70544	SSL Cipher Block Chaining Cipher Suites Supported
INFO	N/A	21643	SSL Cipher Suites Supported
INFO	N/A	57041	SSL Perfect Forward Secrecy Cipher Suites Supported
INFO	N/A	22964	Service Detection
INFO	N/A	42822	Strict Transport Security (STS) Detection
INFO	N/A	136318	TLS Version 1.2 Protocol Detection
INFO	N/A	56468	Time of Last System Startup
INFO	N/A	20094	VMware Virtual Machine Detection

It detected my vmware and the kali os I was running on it.

mine / Plugin #20094

Back to Vulnerabilities



Description

According to the MAC address of its network adapter, the remote host is a VMware virtual machine.

Solution

Since it is physically accessible through the network, ensure that its configuration matches your organization's security policy.

Output



Hosts 1	Vulnerabilities 25 Notes 1 History 1
riosts 1	value abilities 25 Notes 1 Mistory 1
INFO	S Identification
escription	
_	ion of remote probes (e.g., TCP/IP, SMB, HTTP, NTP, SNMP, etc.), it is possible to guess the name of the remote operating system in use
is also possible	sometimes to guess the version of the operating system.
utput	
Confidence	rating system : Linux Kernel 5.4.0-kali3-amd64
Method : ur	
Method : ur	name
Method : ur	
Method : ur	name
Method : ur	name host is running Linux Kernel 5.4.0-kali3-amd64
Method : ur The remote Port A	host is running Linux Kernel 5.4.0-kali3-amd64 Hosts
Method : ur The remote	host is running Linux Kernel 5.4.0-kali3-amd64 Hosts
Method : ur The remote Port	host is running Linux Kernel 5.4.0-kali3-amd64 Hosts

NAME- VISHAL KUMAR SINGH