# Cyber Security Essentials | Batch 1 | Day 4 | LetsUpgrade - Assignment

By Sirajudeen Mahaboob Basha

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Email ID - siraj110981@gmail.com

Question 1: Find out the mail servers of the following domain:

Ibm.com Wipro.com

Answers:

Mail Server information of Ibm.com

```
C:\Users\siraj>nslookup
DNS request timed out.
    timeout was 2 seconds.
Default Server: UnKnown
Address: 192.168.1.1

> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.1.1

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
>
```

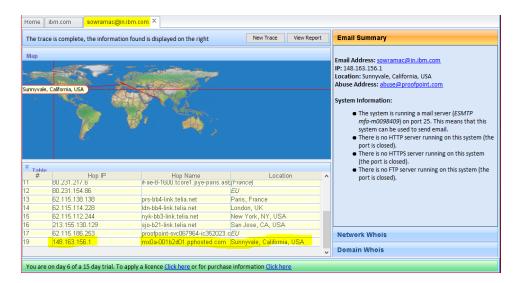
Mail Server Information of wipro.com

## **Question 2:**

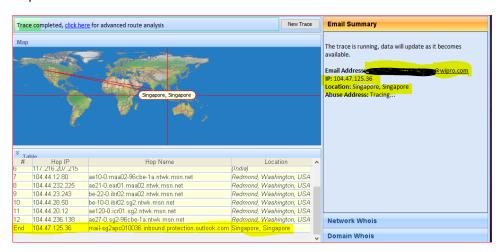
Find the locations, where these email servers are hosted.

#### Ibm.com

ibm.com MX preference = 5, mail exchanger = mx0b-001b2d01.pphosted.com - 148.163.158.5 ibm.com MX preference = 5, mail exchanger = mx0a-001b2d01.pphosted.com - 148.163.156.1



#### Wipro.com



## **Question 3:**

Scan and find out port numbers open 203.163.246.23.

**No Open** ports found while scanning this given IP address.

```
root@kali:~# nmap -v -A 203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-28 08:33 EDT
NSE: Loaded 151 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 08:33
Completed NSE at 08:33, 0.00s elapsed
Initiating NSE at 08:33
Completed NSE at 08:33, 0.00s elapsed Initiating NSE at 08:33
Initiating NSE at 08:33
Completed NSE at 08:33, 0.00s elapsed
Initiating Ping Scan at 08:33
Scanning 203.163.246.23 [4 ports]
Completed Ping Scan at 08:33, 1.01s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 08:33
Completed Parallel DNS resolution of 1 host. at 08:34, 13.00s elapsed
Initiating SYN Stealth Scan at 08:34
Scanning 203.163.246.23 [1000 ports]
Scanning 203.163.246.23 [1000 ports]
Scanning 203.163.246.23 [1000 ports]

SYN Stealth Scan Timing: About 26.00% done; ETC: 08:36 (0:01:34 remaining)

SYN Stealth Scan Timing: About 61.80% done; ETC: 08:35 (0:00:39 remaining)

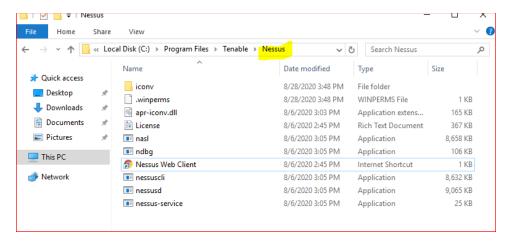
adjust_timeouts2: packet supposedly had rtt of 40794949 microseconds. Ignoring time. adjust_timeouts2: packet supposedly had rtt of 40794949 microseconds. Ignoring time. adjust_timeouts2: packet supposedly had rtt of 40795153 microseconds. Ignoring time. adjust_timeouts2: packet supposedly had rtt of 40795153 microseconds. Ignoring time.
 Host is up (0.014s latency).
Not shown: 978 filtered ports
 PORT
417/tcp
                    STATE SERVICE
                                                                    VERSION
                     closed onmux
  903/tcp closed iss-console-mgr
1043/tcp closed boinc
  1097/tcp
1098/tcp
                    closed sunclustermgr
                    closed rmiactivation
  1102/tcp
                    closed adobeserver-1
  1972/tcp
2046/tcp
                    closed intersys-cache
                    closed sdfunc
closed h2250-annex-g
  2099/tcp
                    closed tdaccess
closed fotogcad
  2910/tcp
  3878/tcp
 4004/tcp closed pxc-roid
4567/tcp closed tram
5500/tcp closed hotline
5998/tcp closed ncd-diag
  6389/tcp
                    closed clariion-evr01
  6788/tcp
                    closed smc-http
  8081/tcp
                    closed blackice-icecap
  9200/tcp closed wap-wsp
9666/tcp closed zoomcp
32771/tcp closed sometimes-rpc5
  50000/tcp closed ibm-db2
  Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 clos
  ed port
```

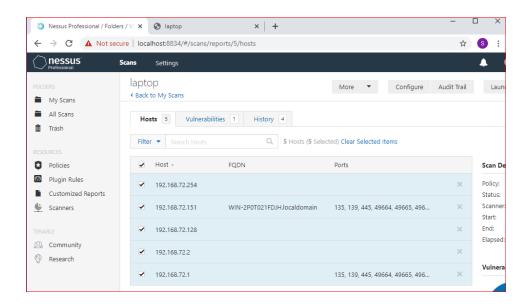
Another command used -open (to just scan open ports)

# **Question 4:**

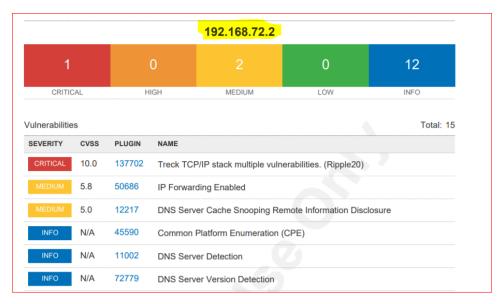
Install nessus in a VM and scan your laptop/desktop for CVE.

Nessus installation in a VM-





Scanned my VMware IP – 192.168.72.2 found below CVEs.



## **Reference Information**

**CVE**: CVE-2020-11896, CVE-2020-11897, CVE-2020-11898, CVE-2020-11899, CVE-2020-11900, CVE-2020-11901, CVE-2020-11902, CVE-2020-11903, CVE-2020-11904, CVE-2020-11905, CVE-2020-11906, CVE-2020-11907, CVE-2020-11908, CVE-2020-11909, CVE-2020-11910, CVE-2020-11911, CVE-2020-11912, CVE-2020-11913, CVE-2020-11914