

Question 1:

Find out the mail servers of the following domain :

lbm.com

Wipro.com

Question 2:

Find the locations, where these email servers are hosted.

```
default TTL = 1800 (30 mins)
> www.ibm.com
Server: UnKnown
Address: 192.168.192.2

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 = 1598463682
refresh = 1000 (16 mins 40 secs)
retry = 1000 (16 mins 40 secs)
expire = 1000 (16 mins 40 secs)
default TTL = 1800 (30 mins)
```

```
default TTL = 1800 (30 mins)
> www.wipro.com
Server: UnKnown
Address: 192.168.192.2

Non-authoritative answer:
www.wipro.com canonical name = d361nqn33s63ex.cloudfront.net
> www.wipro.com
Server: UnKnown
Address: 192.168.192.2

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)
> _
```

```
Administrator: Command Prompt - nslookup
Microsoft Windows [Version 10.0.14393]
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C:\Users\Administrator>nslookup
Default Server: UnKnown
Address: 192.168.192.2

> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.192.2

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

mx0b-001b2d01.pphosted.com      internet address = 148.163.158.5
mx0a-001b2d01.pphosted.com      internet address = 148.163.156.1
> wipro.com
Server: UnKnown
Address: 192.168.192.2

Non-authoritative answer:
wipro.com      MX preference = 0, mail exchanger = wipro-com.mail.protection.outlook.com

wipro-com.mail.protection.outlook.com      internet address = 104.47.125.36
wipro-com.mail.protection.outlook.com      internet address = 104.47.124.36
>
```

### Question 3:

Scan and find out port numbers open 203.163.246.23

```
bpg@kali-pc-001:~$ 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 12:01 PDT
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 201.50 seconds
```