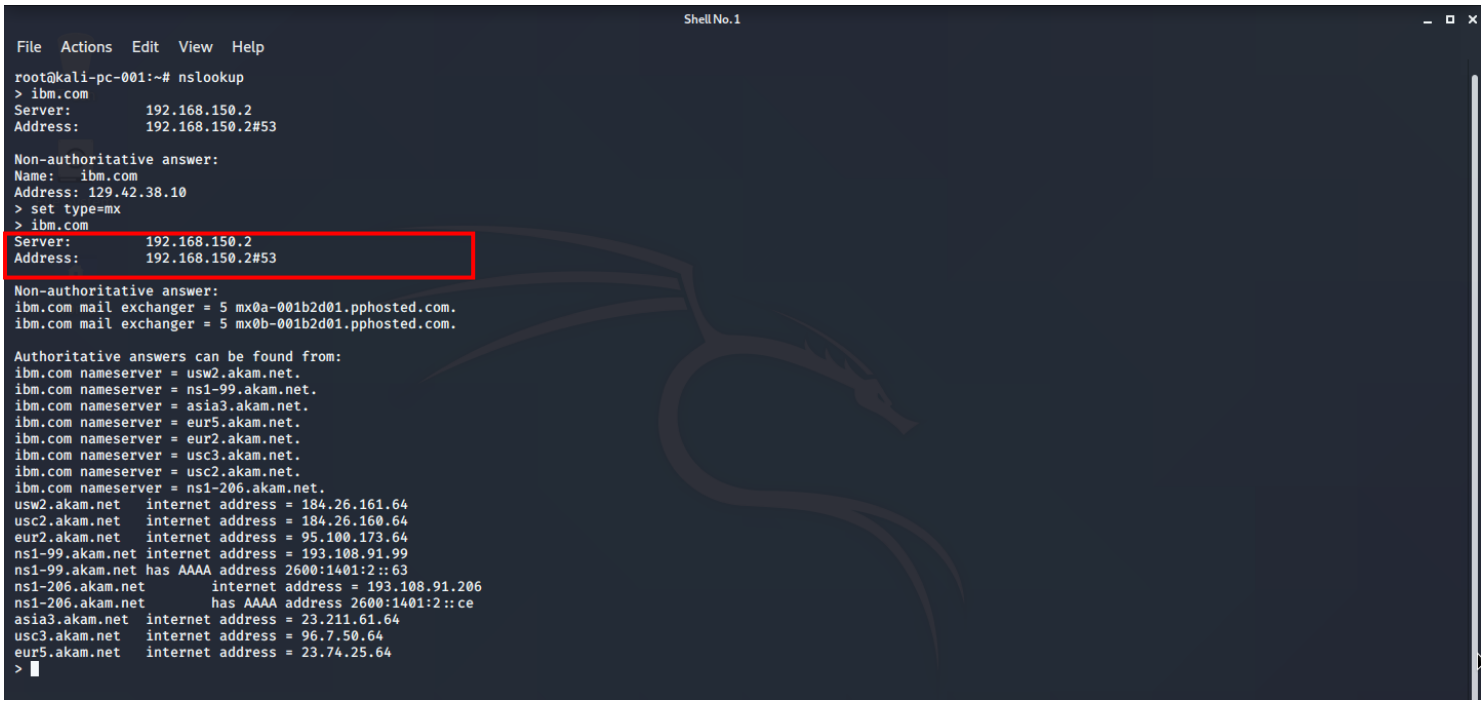
Question 1: Find out the mail servers of the following domains: ibm.com, wipro.com

Solution: Open Terminal.

For ibm.com -
Type the command **nslookup**
set type=mx
ibm.com



For wipro.com -
Type the command **nslookup**

set type=mx

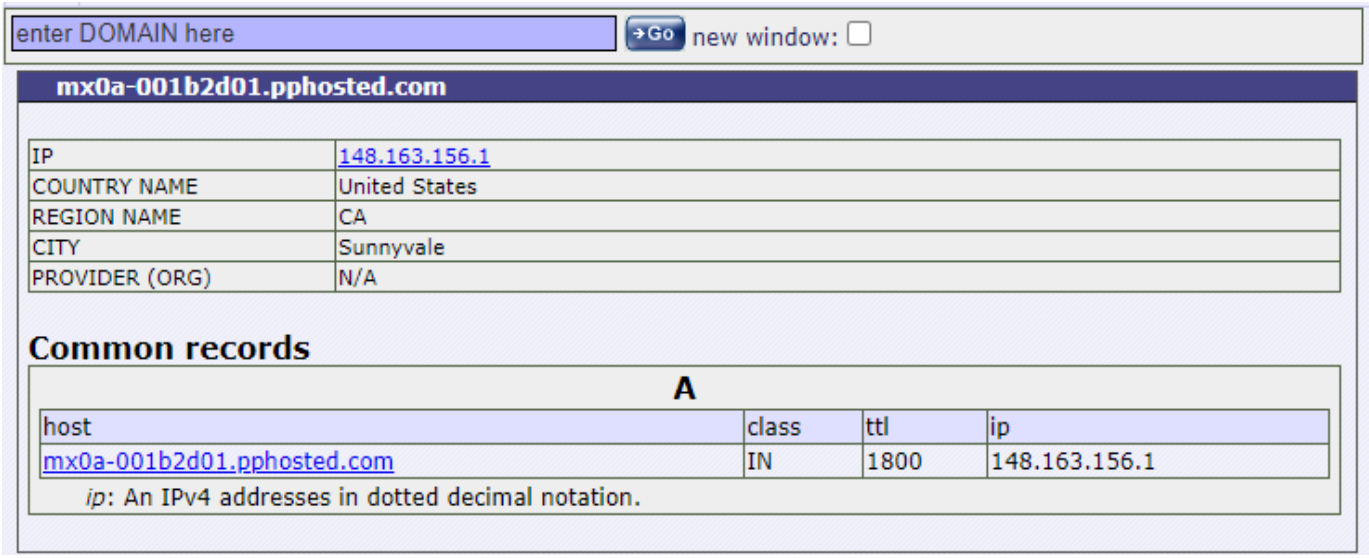
wipro.com

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

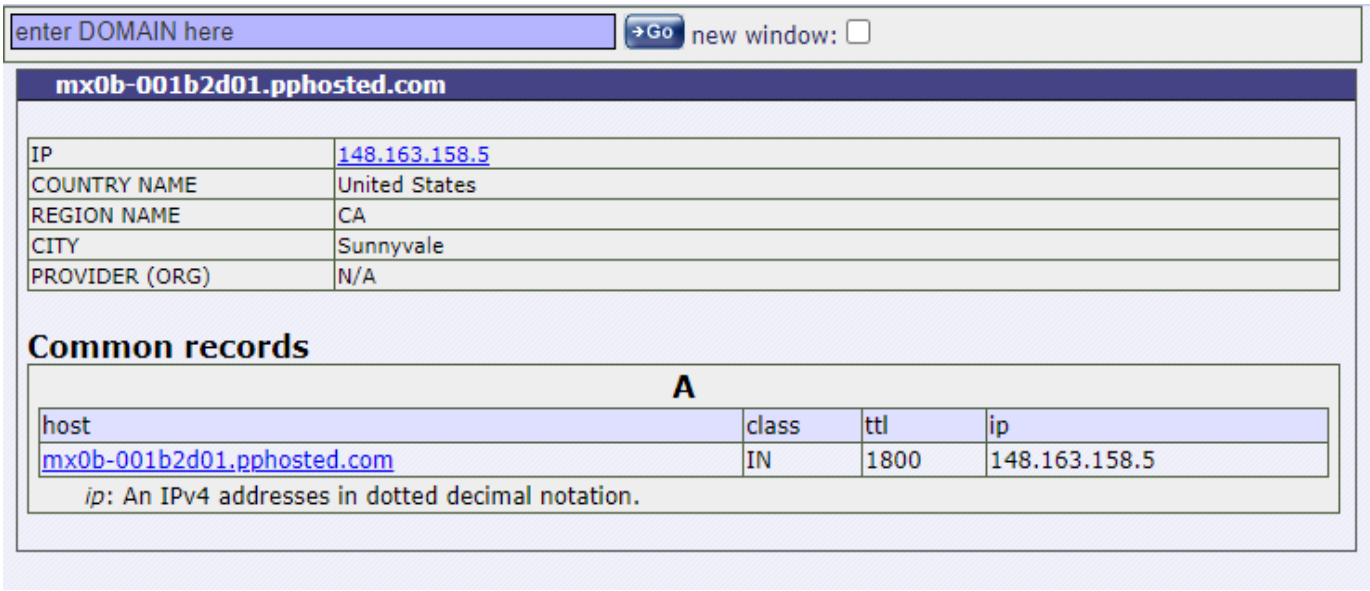
Solution:

Mail server locations for ibm.com are :-

1. **mx0a-001b2d01.pphosted.com**



2. **mx0a-001b2d01.pphosted.com**



Mail server location for wipro.com is :-

wipro-com.mail.protection.outlook.com

enter DOMAIN here Go new window:

wipro-com.mail.protection.outlook.com

IP	104.47.125.36
IP 1	104.47.126.36
COUNTRY NAME	Singapore
REGION NAME	00
CITY	Singapore
PROVIDER (ORG)	N/A

Common records

A

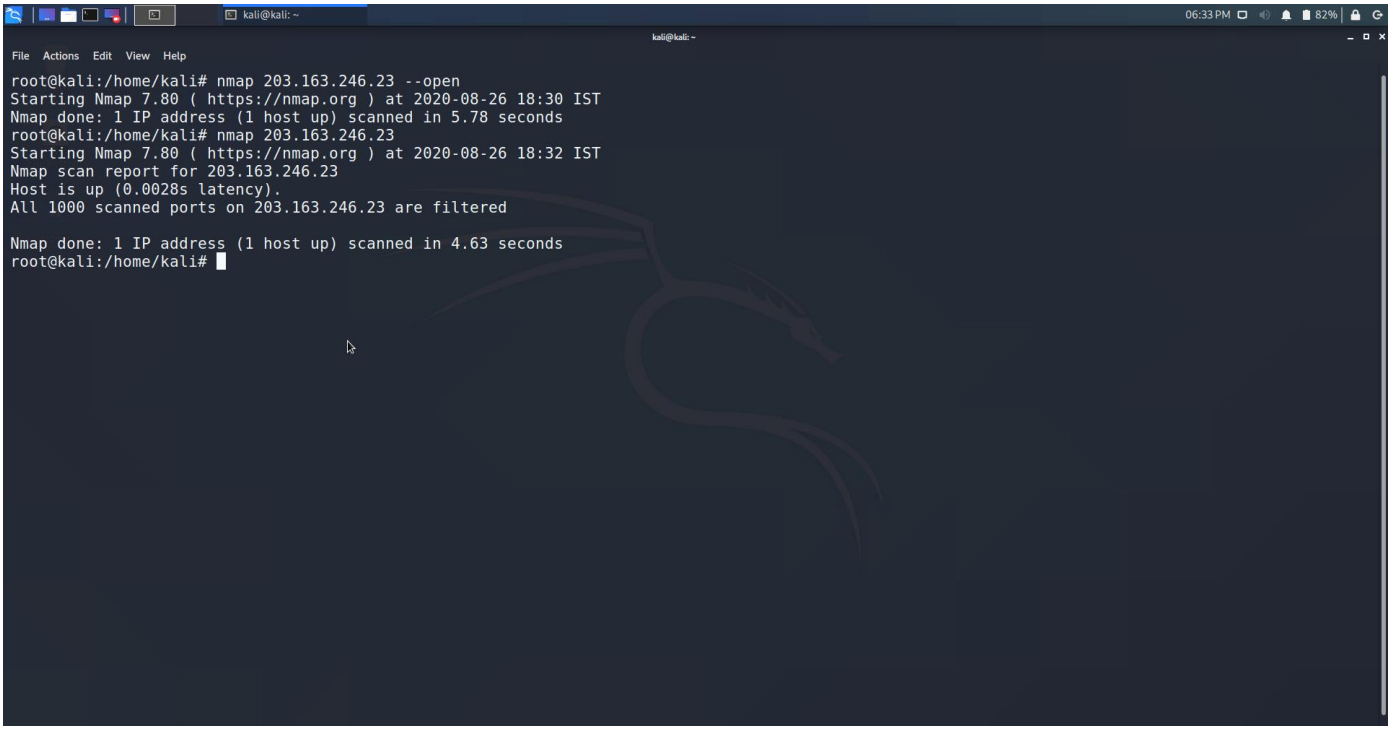
host	class	ttl	ip
wipro-com.mail.protection.outlook.com	IN	10	104.47.126.36
wipro-com.mail.protection.outlook.com	IN	10	104.47.125.36

ip: An IPv4 addresses in dotted decimal notation.

Question 3: Scan and find out port numbers open 203.163.246.23

Solution: The given IP was scanned using NMAP

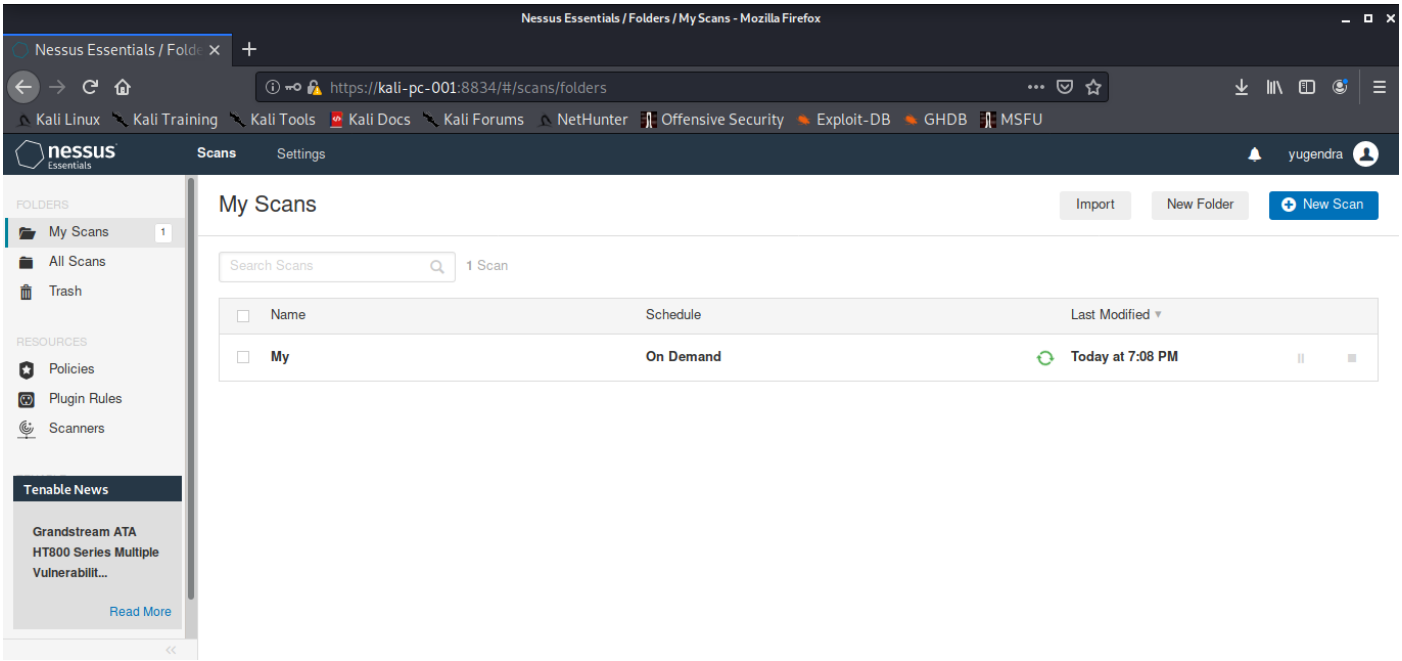
Command: nmap 203.163.246.23



Question 4: Install Nessus in a VM and scan your laptop/desktop for CVE.

Solution:

1. Navigate to https://www.tenable.com/downloads/nessus
2. Download the appropriate version.



3. Register with the website with name and email to get the authentication code via email.

4. Go to Kali terminal, cd to Downloads folder.

5. Dpkg -i < file name>

6. type command /bin/systemctl start nessusd,server

8. Open link https://kali:8834/

7. Enter AUTH code sent via email.

9. Wait for initialization to complete.

10. Log on to Nessus.

11.Goto Advanced tab and create a scan against the local system.

12. Click on the Scan to get the list of vulnerabilities