Question 1:

Find out the mail servers of the following domain:

Ibm.com

Wipro.com

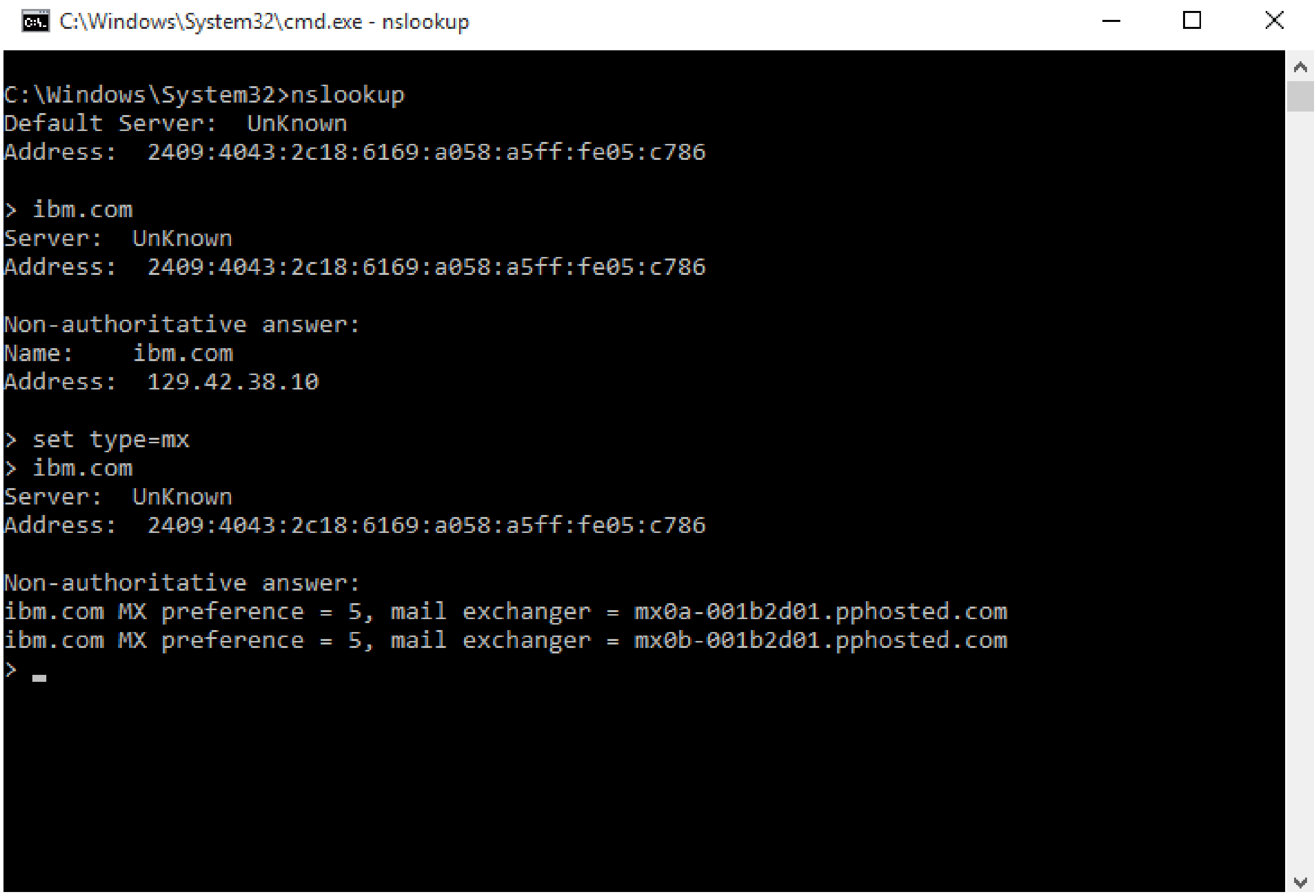
Answer: For Ibm.com

>nslookup

>ibm.com

> set type=mx

>ibm.com



```
C:\Windows\System32>nslookup
Default Server:  UnKnown
Address:  2409:4043:2c18:6169:a058:a5ff:fe05:c786

> ibm.com
Server:  UnKnown
Address:  2409:4043:2c18:6169:a058:a5ff:fe05:c786

Non-authoritative answer:
Name:    ibm.com
Address:  129.42.38.10

> set type=mx
> ibm.com
Server:  UnKnown
Address:  2409:4043:2c18:6169:a058:a5ff:fe05:c786

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
>
```

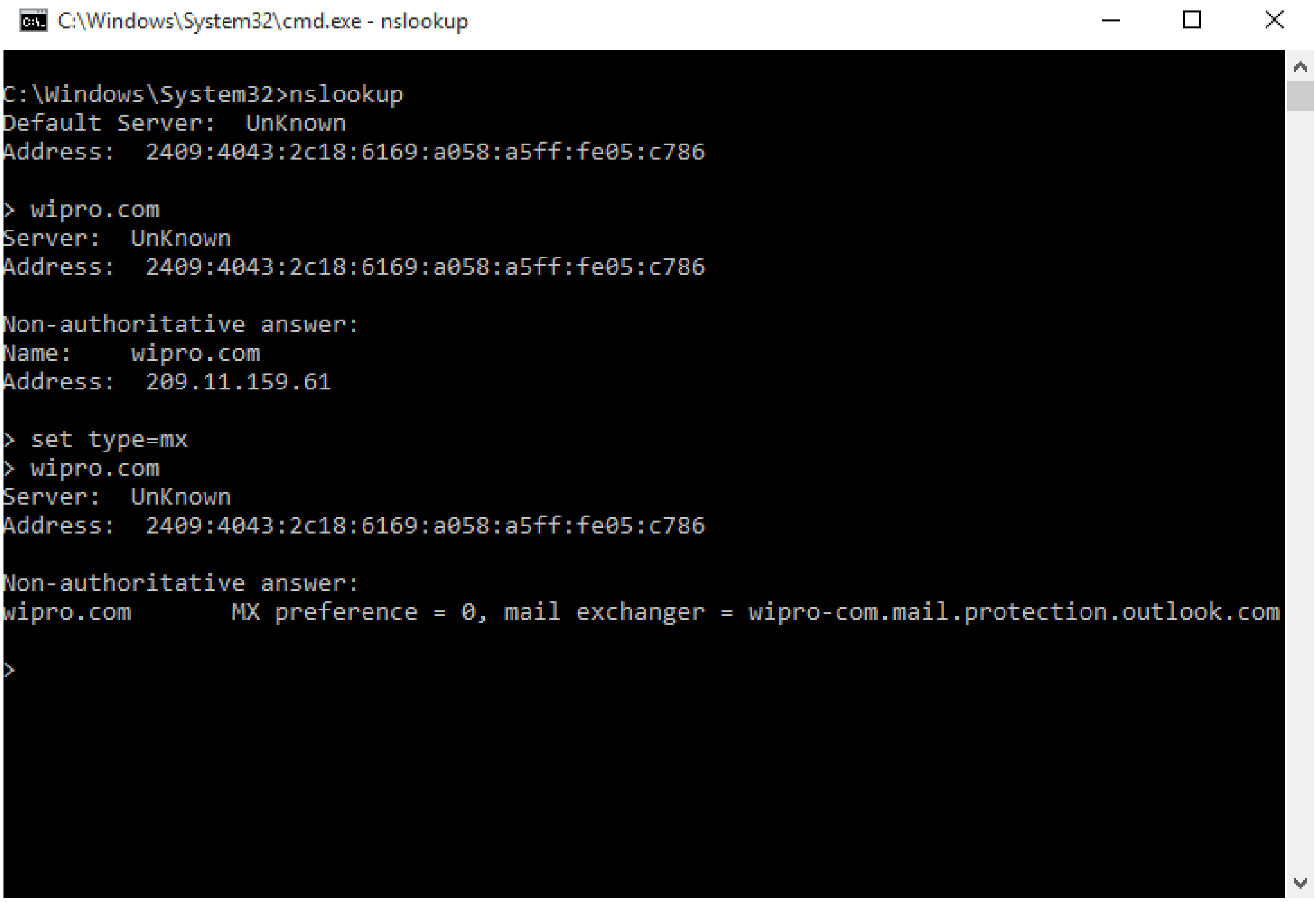
For Wipro.com

>nslookup

>wipro.com

> set type=mx

>wipro.com



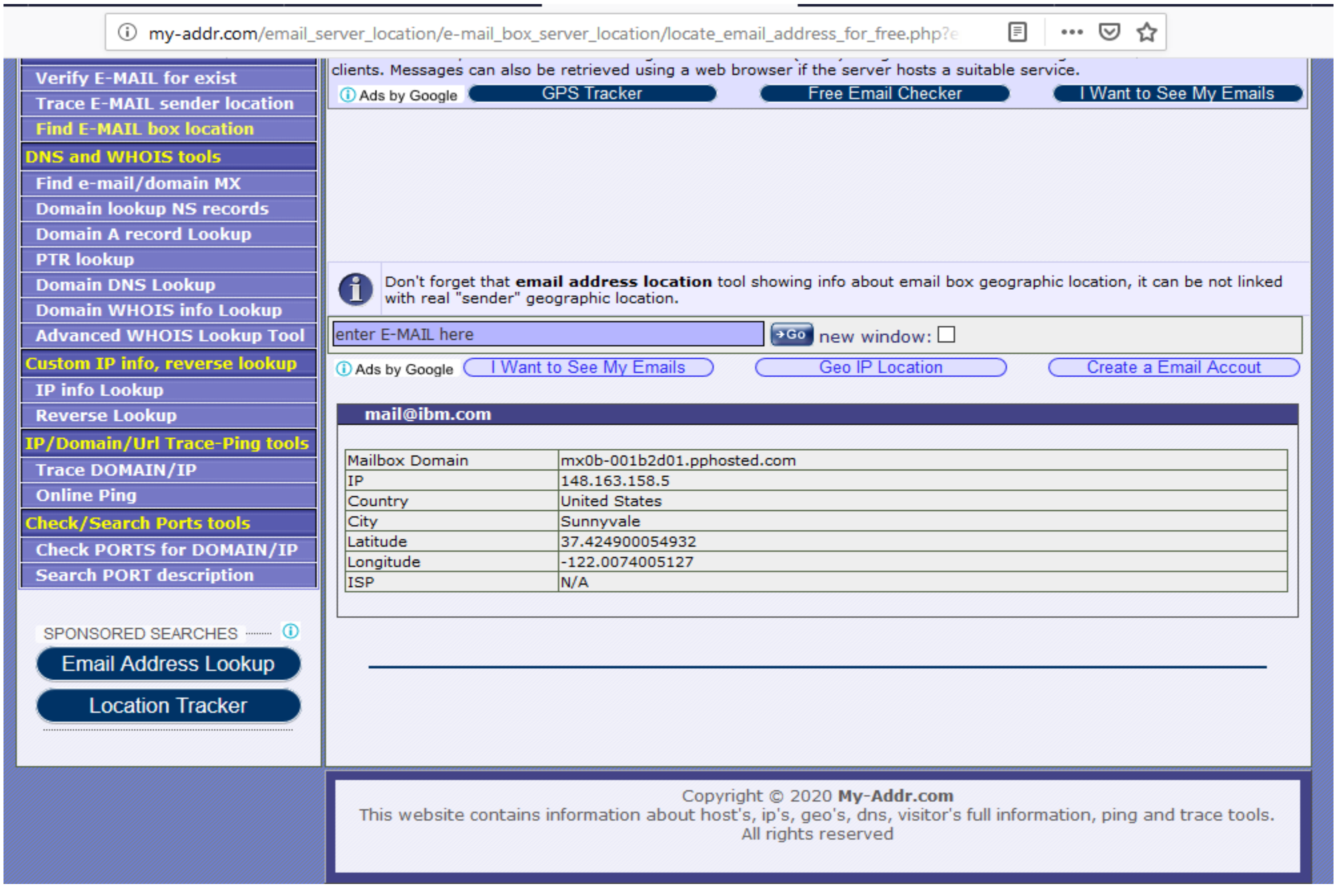
```
C:\Windows\System32>nslookup
Default Server:  UnKnown
Address:  2409:4043:2c18:6169:a058:a5ff:fe05:c786

> wipro.com
Server:  UnKnown
Address:  2409:4043:2c18:6169:a058:a5ff:fe05:c786

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

> set type=mx
> wipro.com
Server:  UnKnown
Address:  2409:4043:2c18:6169:a058:a5ff:fe05:c786

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

>
```

Question 2:

Find the locations, where these email servers are hosted.

Answer:

For **mx0b-001b2d01.pphosted.com**



clients. Messages can also be retrieved using a web browser if the server hosts a suitable service.

Don't forget that **email address location** tool showing info about email box geographic location, it can be not linked with real "sender" geographic location.

mail@ibm.com

Mailbox Domain	mx0b-001b2d01.pphosted.com
IP	148.163.158.5
Country	United States
City	Sunnyvale
Latitude	37.424900054932
Longitude	-122.0074005127
ISP	N/A

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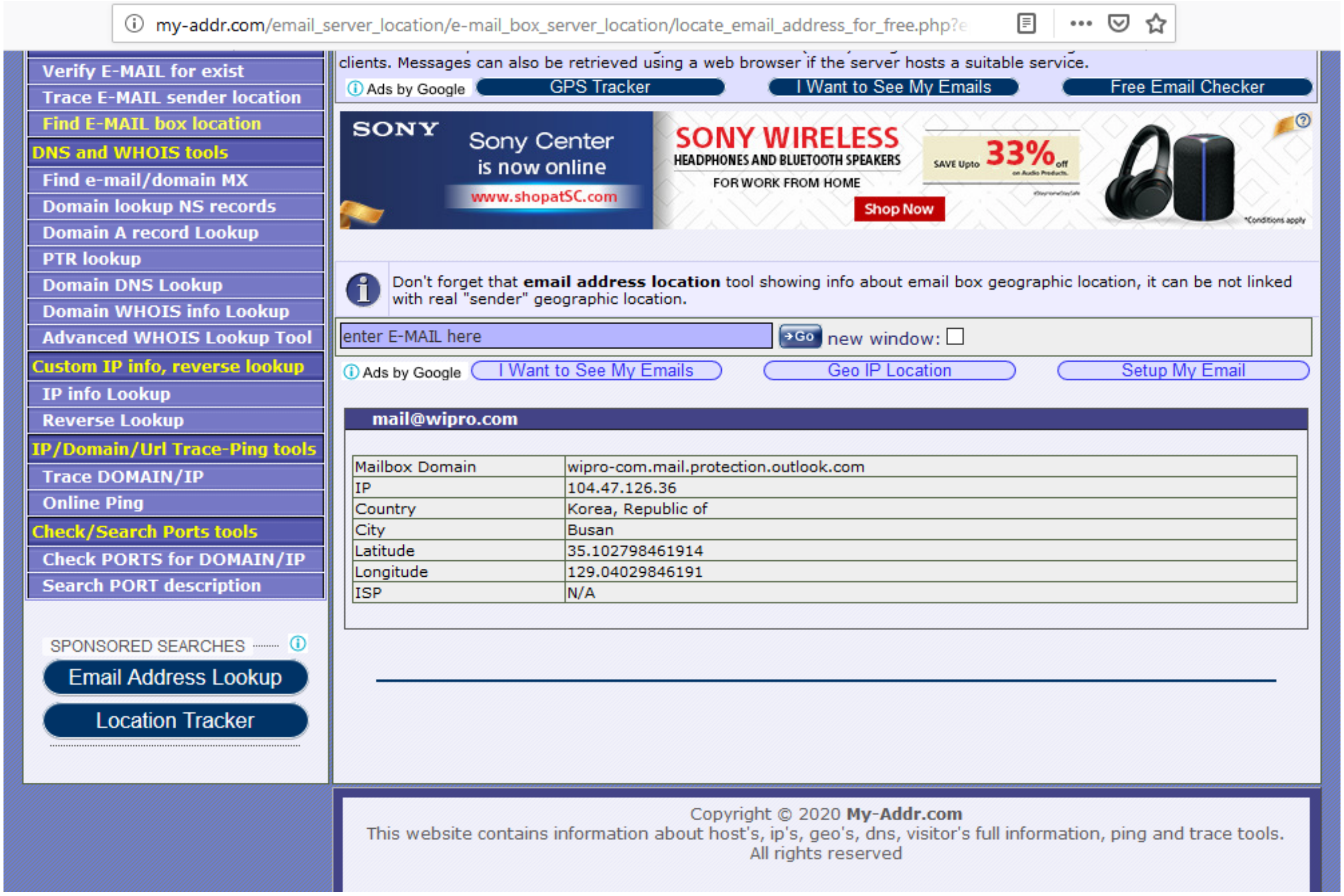
For **wipro-com.mail.protection.outlook.com**



clients. Messages can also be retrieved using a web browser if the server hosts a suitable service.

Don't forget that **email address location** tool showing info about email box geographic location, it can be not linked with real "sender" geographic location.

enter E-MAIL here Go new window: □

mail@wipro.com

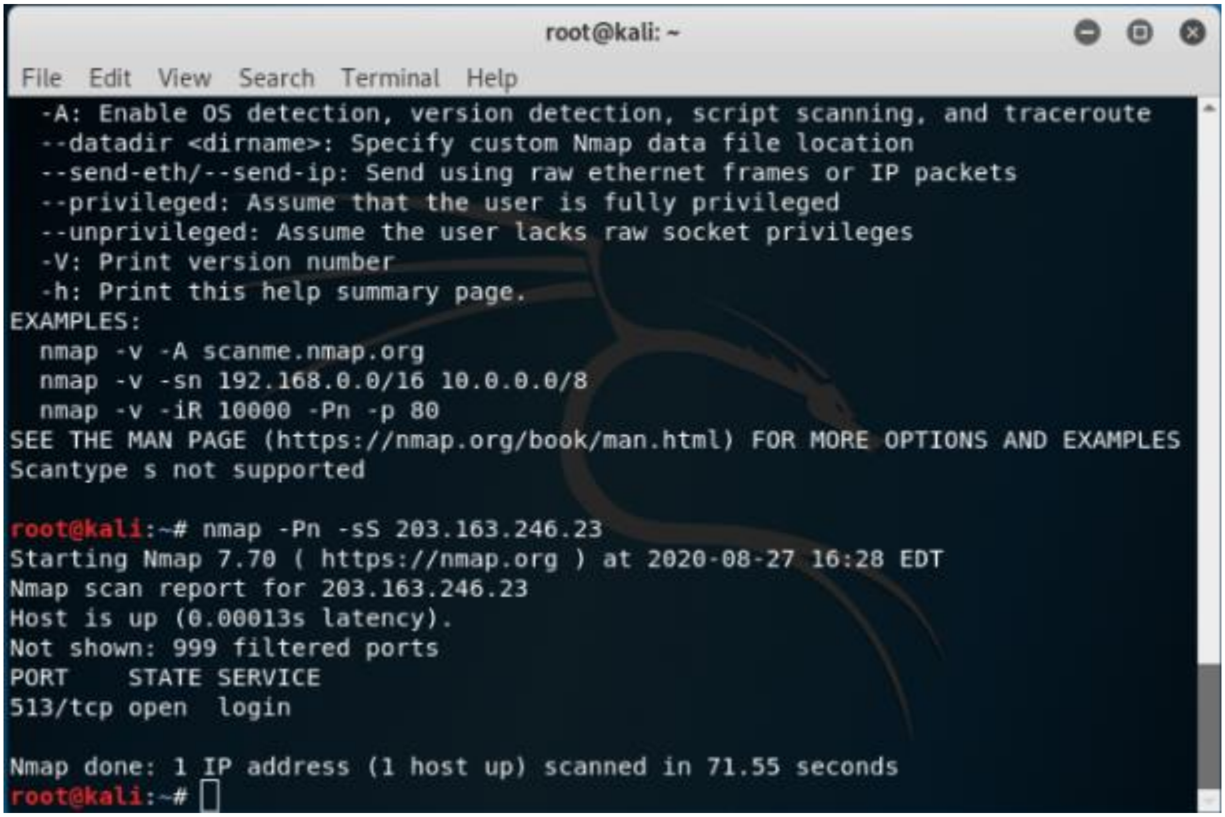
Mailbox Domain	wipro-com.mail.protection.outlook.com
IP	104.47.126.36
Country	Korea, Republic of
City	Busan
Latitude	35.102798461914
Longitude	129.04029846191
ISP	N/A

Question 3:

Scan and find out port numbers open 203.163.246.23

Answer:

>nmap –Pn –sS 203.163.246.23

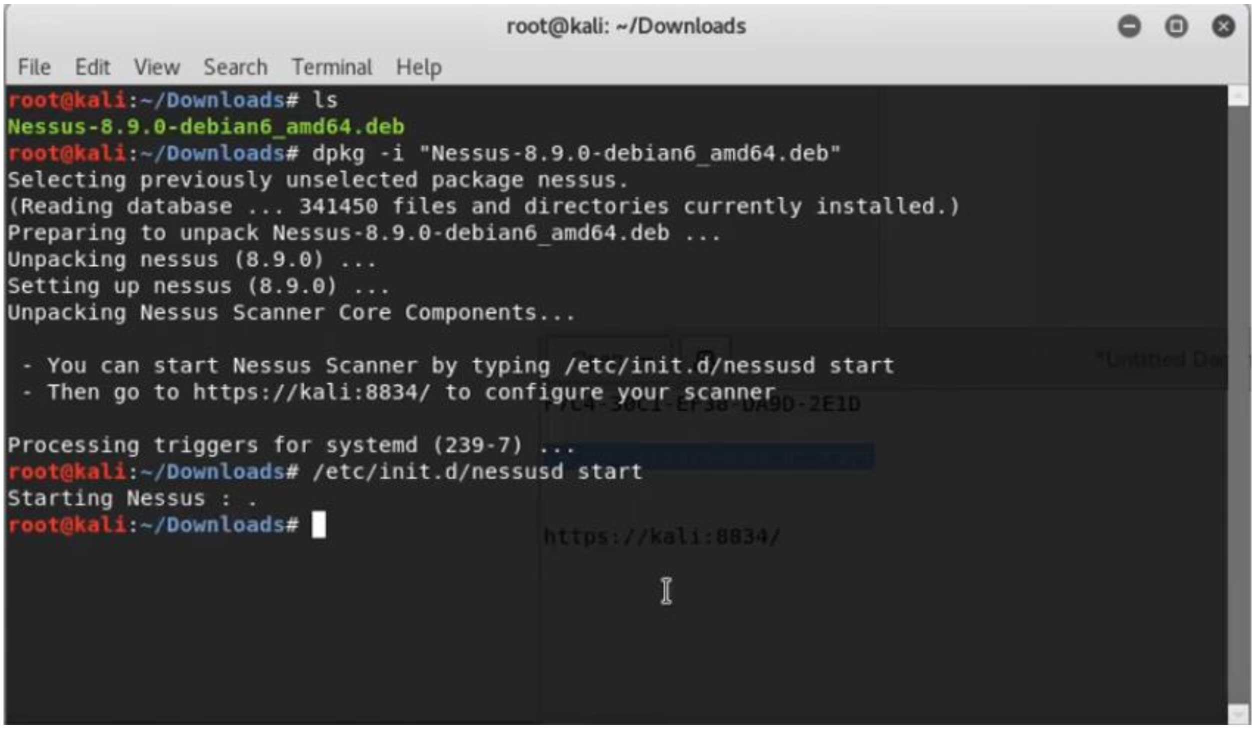


```
  -A: Enable OS detection, version detection, script scanning, and traceroute
  --datadir <dirname>: Specify custom Nmap data file location
  --send-eth/--send-ip: Send using raw ethernet frames or IP packets
  --privileged: Assume that the user is fully privileged
  --unprivileged: Assume the user lacks raw socket privileges
  -V: Print version number
  -h: Print this help summary page.
EXAMPLES:
  nmap -v -A scanme.nmap.org
  nmap -v -sn 192.168.0.0/16 10.0.0.0/8
  nmap -v -iR 10000 -Pn -p 80
SEE THE MAN PAGE (https://nmap.org/book/man.html) FOR MORE OPTIONS AND EXAMPLES
Scantype s not supported

root@kali:~# nmap -Pn -sS 203.163.246.23
Starting Nmap 7.70 ( https://nmap.org ) at 2020-08-27 16:28 EDT
Nmap scan report for 203.163.246.23
Host is up (0.00013s latency).
Not shown: 999 filtered ports
PORT    STATE SERVICE
513/tcp open  login

Nmap done: 1 IP address (1 host up) scanned in 71.55 seconds
root@kali:~# 
```

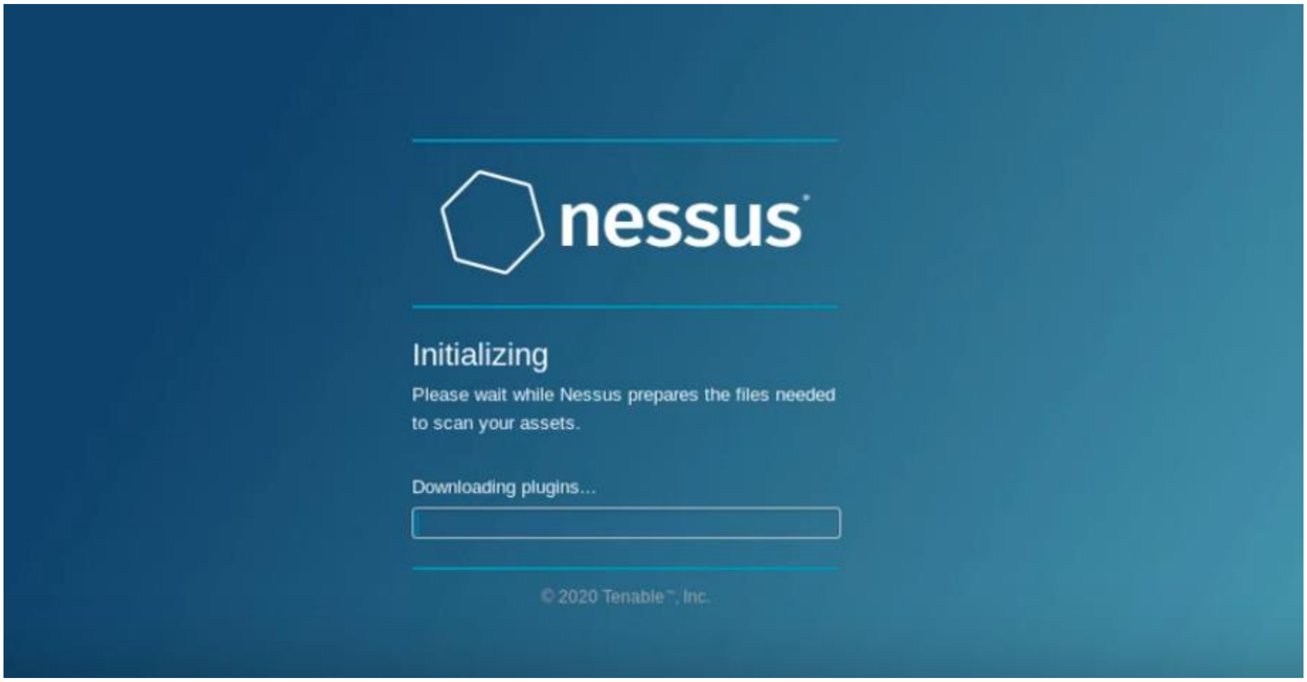
Question 4:

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

Answer:



```
root@kali:~/Downloads# ls
Nessus-8.9.0-debian6_amd64.deb
root@kali:~/Downloads# dpkg -i "Nessus-8.9.0-debian6_amd64.deb"
Selecting previously unselected package nessus.
(Reading database ... 341450 files and directories currently installed.)
Preparing to unpack Nessus-8.9.0-debian6_amd64.deb ...
Unpacking nessus (8.9.0) ...
Setting up nessus (8.9.0) ...
Unpacking Nessus Scanner Core Components...

 - You can start Nessus Scanner by typing /etc/init.d/nessusd start
 - Then go to https://kali:8834/ to configure your scanner

Processing triggers for systemd (239-7) ...
root@kali:~/Downloads# /etc/init.d/nessusd start
Starting Nessus : .
root@kali:~/Downloads# 
```



Initializing

Please wait while Nessus prepares the files needed to scan your assets.

Downloading plugins...

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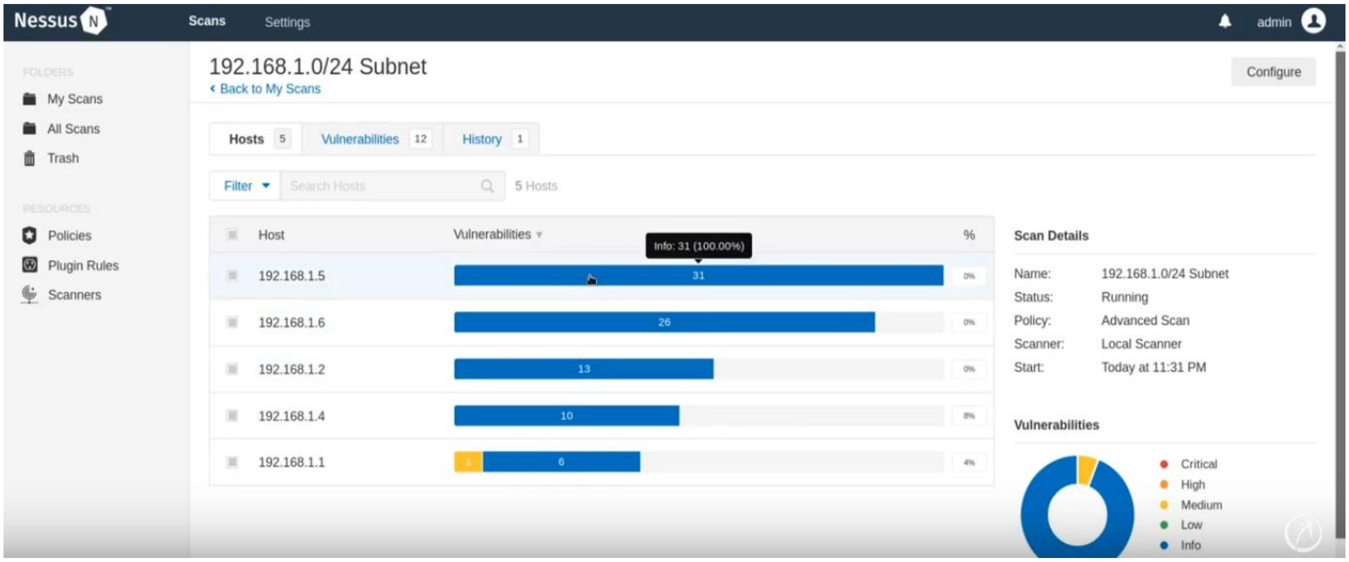

192.168.1.0/24 Subnet

‹ Back to My Scans

5 Hosts

Host	Vulnerabilities	%
192.168.1.5	31	0%
192.168.1.6	26	0%
192.168.1.2	13	0%
192.168.1.4	10	8%
192.168.1.1	1 6	4%

Scan Details

Name:	192.168.1.0/24 Subnet
Status:	Running
Policy:	Advanced Scan
Scanner:	Local Scanner
Start:	Today at 11:31 PM

Vulnerabilities