

Assignment Day 4 | 23rd August 2020

Vanessa More

Batch 1 Cyber Security Essentials

ASSIGNMENT SUBMISSION

Question 1:

Find out the mail servers of the following domain:

ibm.com

[Wipro.com](http://wipro.com)

Answer 1:

The mail server for ibm.com is:

(Marked area in screenshot)

```
Command Prompt - nslookup
Microsoft Windows [Version 10.0.19041.450]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>nslookup
Default Server: UnKnown
Address: 192.168.43.1

> ibm.com
Server: UnKnown
Address: 192.168.43.1

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

> set type=mx
> ibm.com
Server: UnKnown
Address: 192.168.43.1

Non-authoritative answer:
ibm.com MX preference = 5, mail exchanger = mx0b-001b2d01.ppho ted.com
ibm.com MX preference = 5, mail exchanger = mx0a-001b2d01.ppho ted.com
>
>
```

The mail server for [Wipro.com](http://wipro.com) is:

(Marked area in screenshot)

```
Command Prompt - nslookup
Microsoft Windows [Version 10.0.19041.450]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\LENOVO>nslookup
Default Server: UnKnown
Address: 192.168.43.1

> wipro.com
Server: UnKnown
Address: 192.168.43.1

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

> set type=mx
> wipro.com
Server: UnKnown
Address: 192.168.43.1

Non-authoritative answer:
wipro.com MX preference = 0, mail exchanger = wipro-com.mail.protection.outlook.com
wipro.com nameserver = ns1.webindia.com
wipro.com nameserver = ns2.webindia.com
wipro.com nameserver = ns4.webindia.com
>
```

Question 2:


Find the locations, where these email servers are hosted.

Answer 2:


The email server for [ibm.com](https://www.ibm.com) is located in Canada, USA.

pphosted.com


Updated 13 hours ago

 Domain Information


Domain:	pphosted.com
Registrar:	MarkMonitor Inc.
Registered On:	2007-07-11
Expires On:	2022-07-10
Updated On:	2020-06-09
Status:	clientDeleteProhibited clientTransferProhibited clientUpdateProhibited serverDeleteProhibited serverTransferProhibited serverUpdateProhibited
Name Servers:	ns1.proofpoint.com ns3.proofpoint.com pdns99.ultradns.biz pdns99.ultradns.com pdns99.ultradns.net pdns99.ultradns.org

 Registrant Contact

Organization:	Proofpoint, Inc.
State:	CA
Country:	US
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/pphosted.com

 Administrative Contact

Organization:	Proofpoint, Inc.
State:	CA
Country:	US
Email:	Select Request Email Form at https://domains.markmonitor.com/whois/pphosted.com

 Technical Contact

REF: <https://www.whois.com/whois/pphosted.com>

The email server for [Wipro.com](https://www.wipro.com) is located in Washington, USA.

outlook.com

Updated 11 hours ago 



Domain Information

Domain:	outlook.com
Registrar:	MarkMonitor Inc.
Registered On:	1994-08-18
Expires On:	2021-08-16
Updated On:	2020-07-16
Status:	clientDeleteProhibited clientTransferProhibited clientUpdateProhibited serverDeleteProhibited serverTransferProhibited serverUpdateProhibited
Name Servers:	ns1-38.azure-dns.com ns2-38.azure-dns.net ns3-38.azure-dns.org ns4-38.azure-dns.info nse12.o365filtering.com nse13.o365filtering.com nse21.o365filtering.com nse24.o365filtering.com



Registrant Contact

Name:	Domain Administrator
Organization:	Microsoft Corporation
Street:	One Microsoft Way,
City:	Redmond
State:	WA
Postal Code:	98052
Country:	US
Phone:	+1.4258828080
Fax:	+1.4259367329
Email:	domains @microsoft.com



Administrative Contact

REF: <https://www.whois.com/whois/outlook.com>

Question 3:

Scan and find out port numbers open 203.163.246.23

Answer 3:

No open ports found.

```
Zenmap
Scan Tools Profile Help
Target: 203.163.246.23 Profile:
Command: nmap -p 1-65535 -T4 -A -v -Pn 203.163.246.23

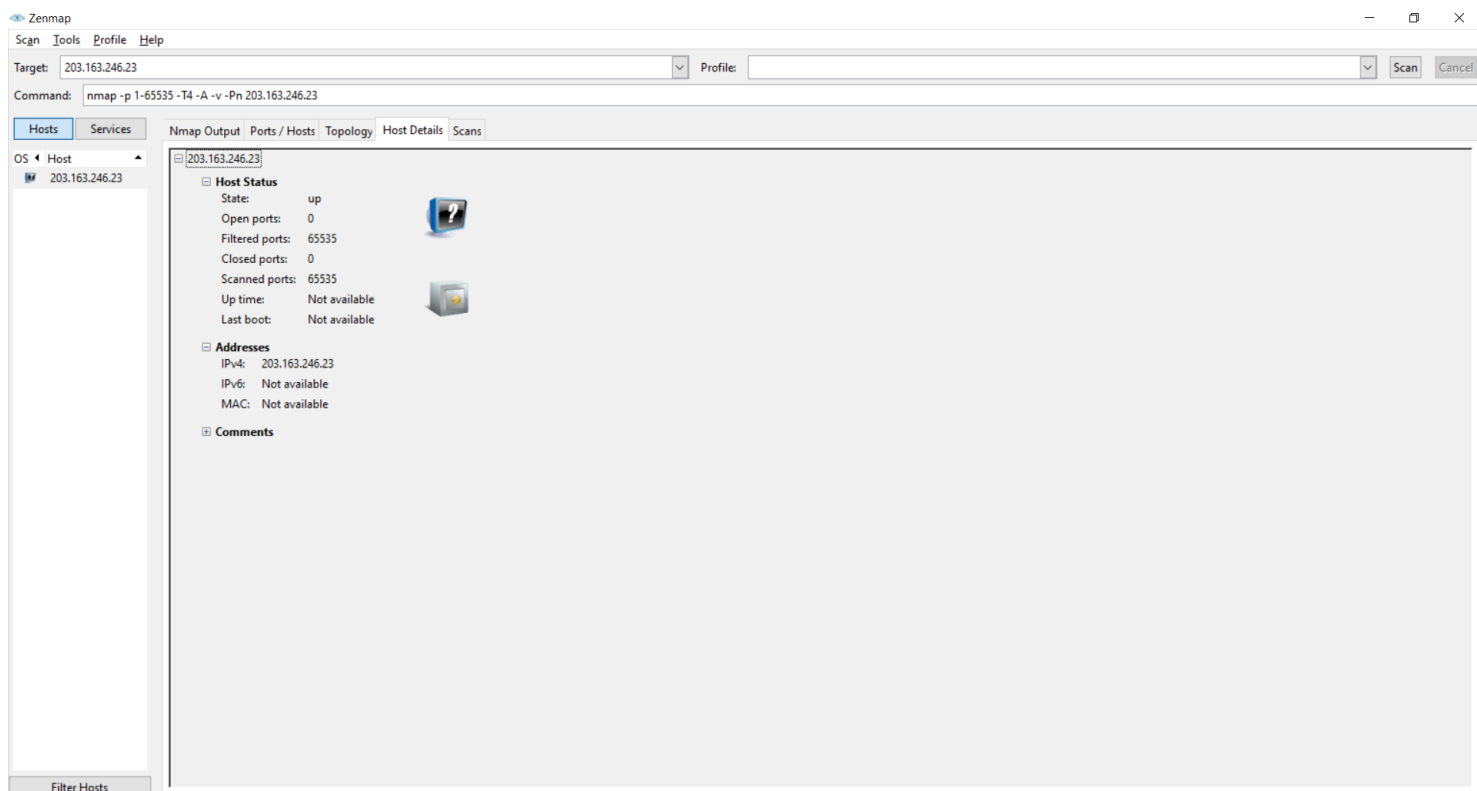
Hosts Services Nmap Output Ports / Hosts Topology Host Details Scans
OS Host
203.163.246.23
Starting Nmap 7.80 ( https://nmap.org ) at 2020-08-26 13:06 India Standard Time
NSE: Loaded 151 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 13:06
Completed NSE at 13:06, 0.01s elapsed
Initiating NSE at 13:06
Completed NSE at 13:06, 0.00s elapsed
Initiating NSE at 13:06
Completed NSE at 13:06, 0.00s elapsed
Initiating Parallel DNS resolution of 1 host. at 13:06
Completed Parallel DNS resolution of 1 host. at 13:06, 0.12s elapsed
Initiating SYN Stealth Scan at 13:06
Scanning 203.163.246.23 [65535 ports]
SYN Stealth Scan Timing: About 0.44% done
SYN Stealth Scan Timing: About 0.88% done
SYN Stealth Scan Timing: About 1.33% done; ETC: 15:01 (1:52:36 remaining)
SYN Stealth Scan Timing: About 4.91% done; ETC: 14:59 (1:46:53 remaining)
SYN Stealth Scan Timing: About 9.45% done; ETC: 14:58 (1:41:14 remaining)
SYN Stealth Scan Timing: About 14.31% done; ETC: 14:58 (1:35:37 remaining)
SYN Stealth Scan Timing: About 19.29% done; ETC: 14:58 (1:30:01 remaining)
SYN Stealth Scan Timing: About 24.31% done; ETC: 14:58 (1:24:24 remaining)
SYN Stealth Scan Timing: About 29.37% done; ETC: 14:58 (1:18:47 remaining)
SYN Stealth Scan Timing: About 34.42% done; ETC: 14:58 (1:13:11 remaining)
SYN Stealth Scan Timing: About 39.50% done; ETC: 14:58 (1:07:35 remaining)
SYN Stealth Scan Timing: About 44.57% done; ETC: 14:58 (1:01:57 remaining)
SYN Stealth Scan Timing: About 49.61% done; ETC: 14:58 (0:56:20 remaining)
SYN Stealth Scan Timing: About 54.66% done; ETC: 14:58 (0:50:42 remaining)
SYN Stealth Scan Timing: About 59.66% done; ETC: 14:58 (0:45:06 remaining)
SYN Stealth Scan Timing: About 64.71% done; ETC: 14:58 (0:39:28 remaining)
SYN Stealth Scan Timing: About 69.76% done; ETC: 14:58 (0:33:49 remaining)
SYN Stealth Scan Timing: About 74.80% done; ETC: 14:58 (0:28:11 remaining)
SYN Stealth Scan Timing: About 79.81% done; ETC: 14:58 (0:22:35 remaining)
SYN Stealth Scan Timing: About 84.81% done; ETC: 14:58 (0:16:59 remaining)
SYN Stealth Scan Timing: About 89.86% done; ETC: 14:58 (0:11:21 remaining)
SYN Stealth Scan Timing: About 94.86% done; ETC: 14:58 (0:05:45 remaining)
Completed SYN Stealth Scan at 14:58, 6714.14s elapsed (65535 total ports)
Initiating Service scan at 14:58
Initiating OS detection (try #1) against 203.163.246.23
Retrying OS detection (try #2) against 203.163.246.23
Initiating Traceroute at 14:58
Completed Traceroute at 14:59, 9.42s elapsed
NSE: Script scanning 203.163.246.23.
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
```

```
Zenmap
Scan Tools Profile Help
Target: 203.163.246.23 Profile:
Command: nmap -p 1-65535 -T4 -A -v -Pn 203.163.246.23

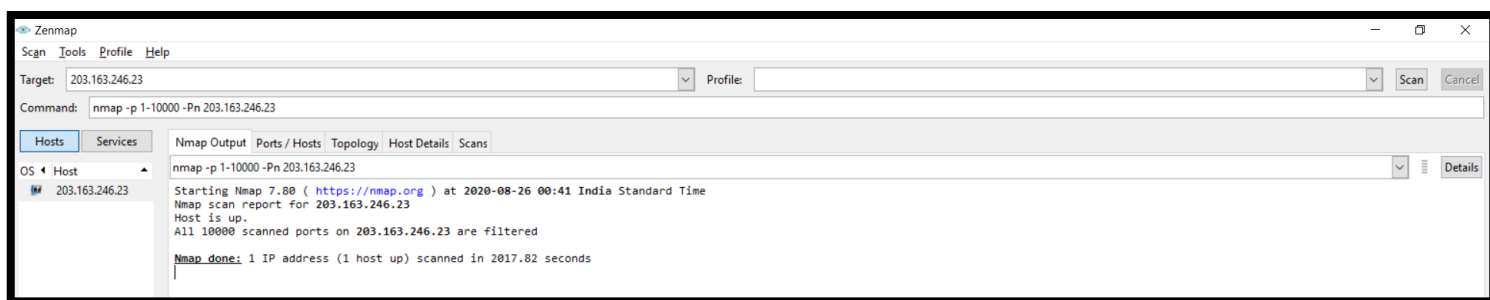
Hosts Services Nmap Output Ports / Hosts Topology Host Details Scans
OS Host
203.163.246.23
SYN Stealth Scan Timing: About 39.50% done; ETC: 14:58 (1:07:35 remaining)
SYN Stealth Scan Timing: About 44.57% done; ETC: 14:58 (1:01:57 remaining)
SYN Stealth Scan Timing: About 49.61% done; ETC: 14:58 (0:56:20 remaining)
SYN Stealth Scan Timing: About 54.66% done; ETC: 14:58 (0:50:42 remaining)
SYN Stealth Scan Timing: About 59.66% done; ETC: 14:58 (0:45:06 remaining)
SYN Stealth Scan Timing: About 64.71% done; ETC: 14:58 (0:39:28 remaining)
SYN Stealth Scan Timing: About 69.76% done; ETC: 14:58 (0:33:49 remaining)
SYN Stealth Scan Timing: About 74.80% done; ETC: 14:58 (0:28:11 remaining)
SYN Stealth Scan Timing: About 79.81% done; ETC: 14:58 (0:22:35 remaining)
SYN Stealth Scan Timing: About 84.81% done; ETC: 14:58 (0:16:59 remaining)
SYN Stealth Scan Timing: About 89.86% done; ETC: 14:58 (0:11:21 remaining)
SYN Stealth Scan Timing: About 94.86% done; ETC: 14:58 (0:05:45 remaining)
Completed SYN Stealth Scan at 14:58, 6714.14s elapsed (65535 total ports)
Initiating Service scan at 14:58
Initiating OS detection (try #1) against 203.163.246.23
Retrying OS detection (try #2) against 203.163.246.23
Initiating Traceroute at 14:58
Completed Traceroute at 14:59, 9.42s elapsed
NSE: Script scanning 203.163.246.23.
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Nmap scan report for 203.163.246.23
Host is up
All 65535 scanned ports on 203.163.246.23 are filtered
Too many fingerprints match this host to give specific OS details

TRACEROUTE (using proto 1/icmp)
HOP RTT ADDRESS
1 ... 30

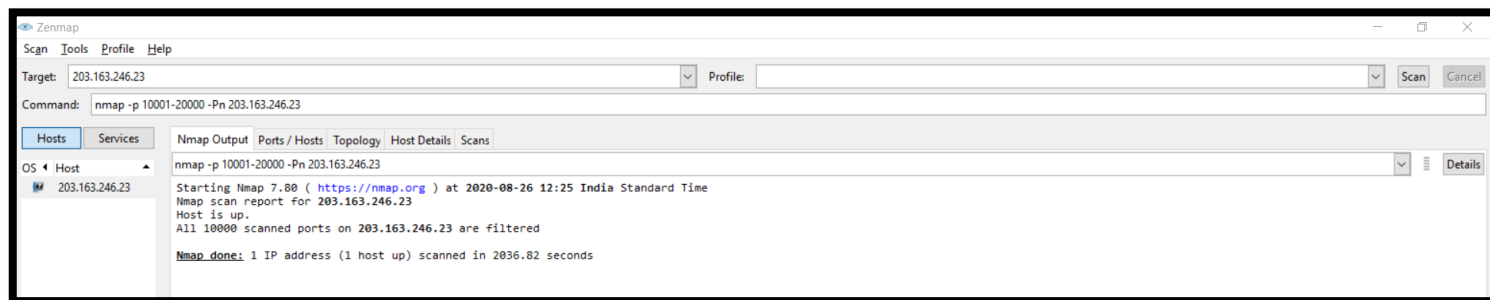
NSE: Script Post-scanning.
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Initiating NSE at 14:59
Completed NSE at 14:59, 0.00s elapsed
Read data files from: C:\Program Files (x86)\Nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6732.00 seconds
Raw packets sent: 131208 (5.776MB) | Rcvd: 37 (3.108KB)
```



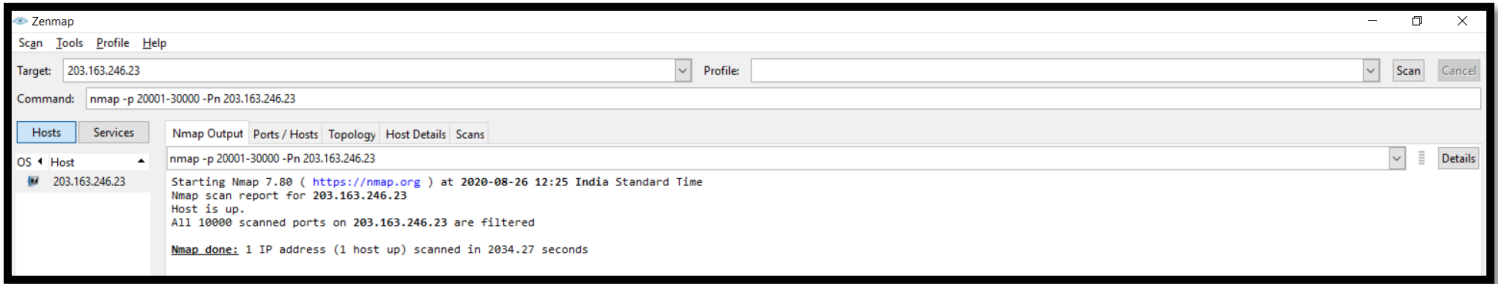
Scan for Ports 1- 10000:



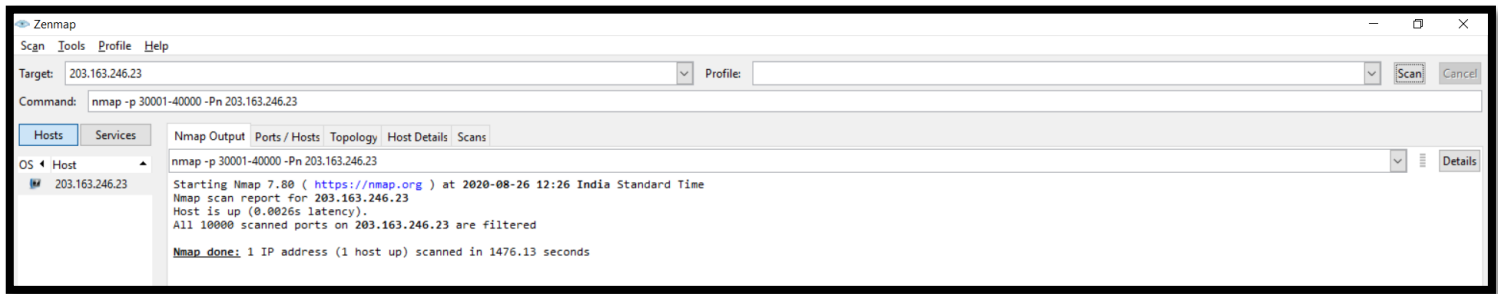
Scan for Ports 10001- 20000:



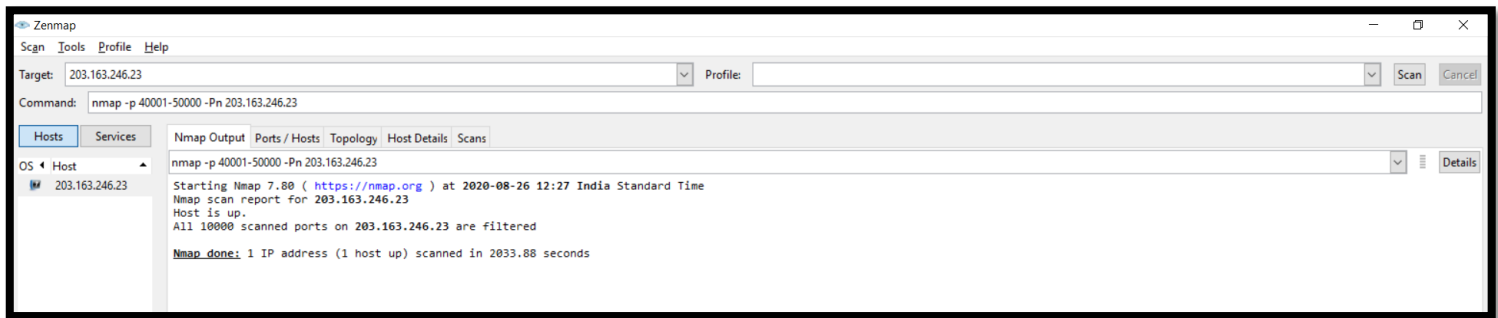
Scan for Ports 20001- 30000:



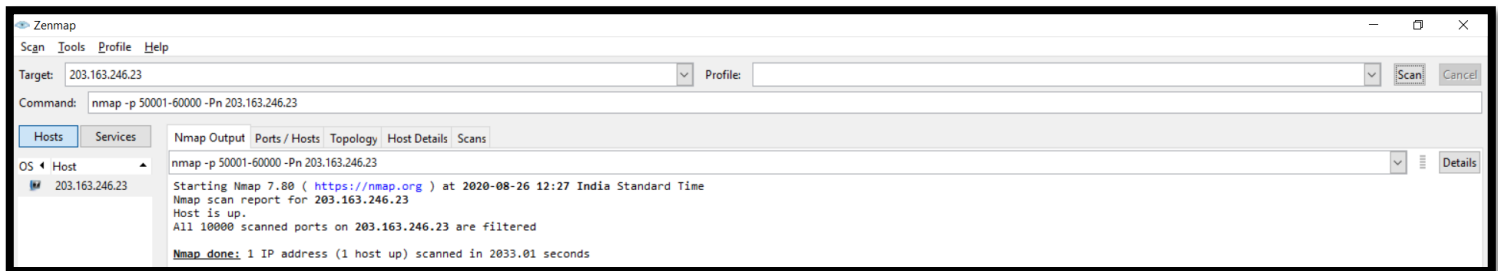
Scan for Ports 30001- 40000:



Scan for Ports 40001- 50000:



Scan for Ports 50001- 60000:



Scan for Ports 60001- 65535:

