

CYBER SECURITY ESSENTIALS

DAY 4 ASSIGNMENT

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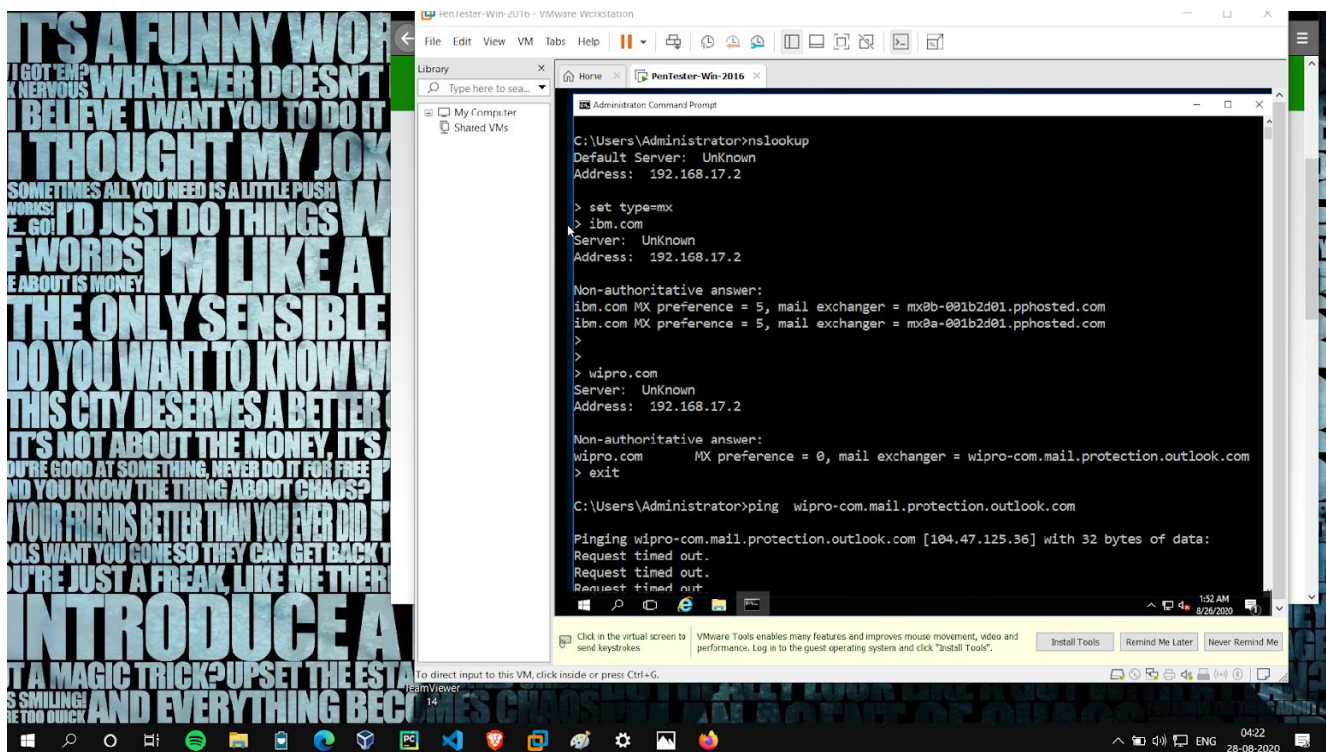
Question 1: Find out the mail servers of the following domain :

ibm.com

Wipro.com

Answer 1: Steps performed:

- >> Open vmware
- >> Launch pentester machine
- >> Command prompt
- >> Type: "nslookup"
- >> set type=mx
- >> Type: **ibm.com** and hit enter
- >> **SAME WILL BE DONE FOR wipro.com**
- >> The following screenshot has the result which has the mailservers mentioned in it :



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

Answer 2: The locations of the mailservers is tracked by using their ip

Steps:

>> In the pentester machine open command prompt

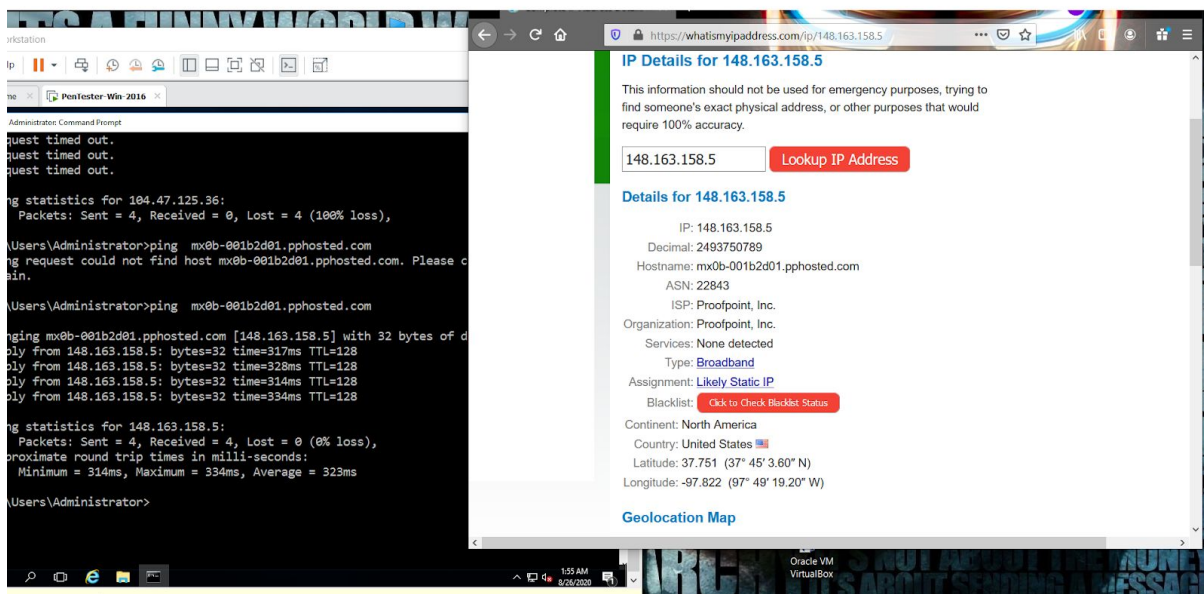
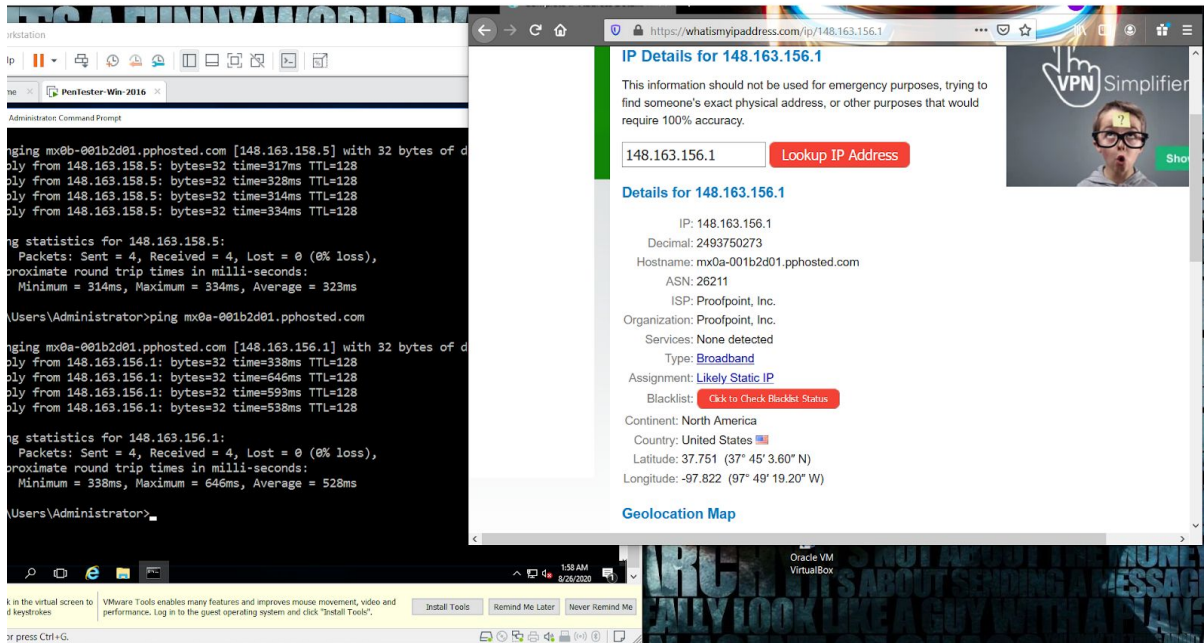
>> Type: **ping (url of mail server of ibm.com)**

This shows the IP of the mailserver

>> copied the IP and go to whatismyipaddress.com and paste the IP

>> The location of mail servers of **ibm.com** is **NORTH AMERICA, UNITED STATES**

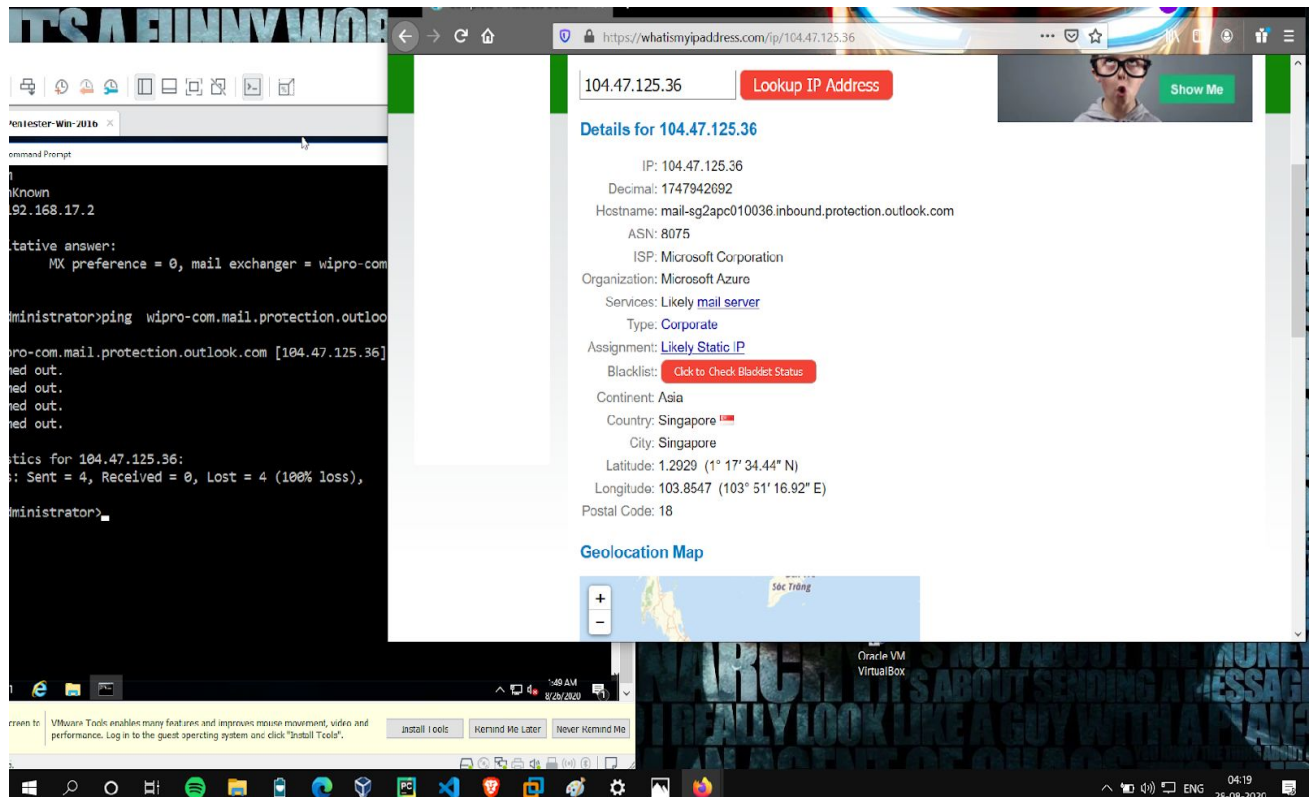
>> The screenshots is attached below:



>> The same steps as above is performed to find the location of mailservers of **wipro.com**

>> The location of mail servers of **wipro.com** is **SINGAPORE.**

>> The screenshot is attached below:

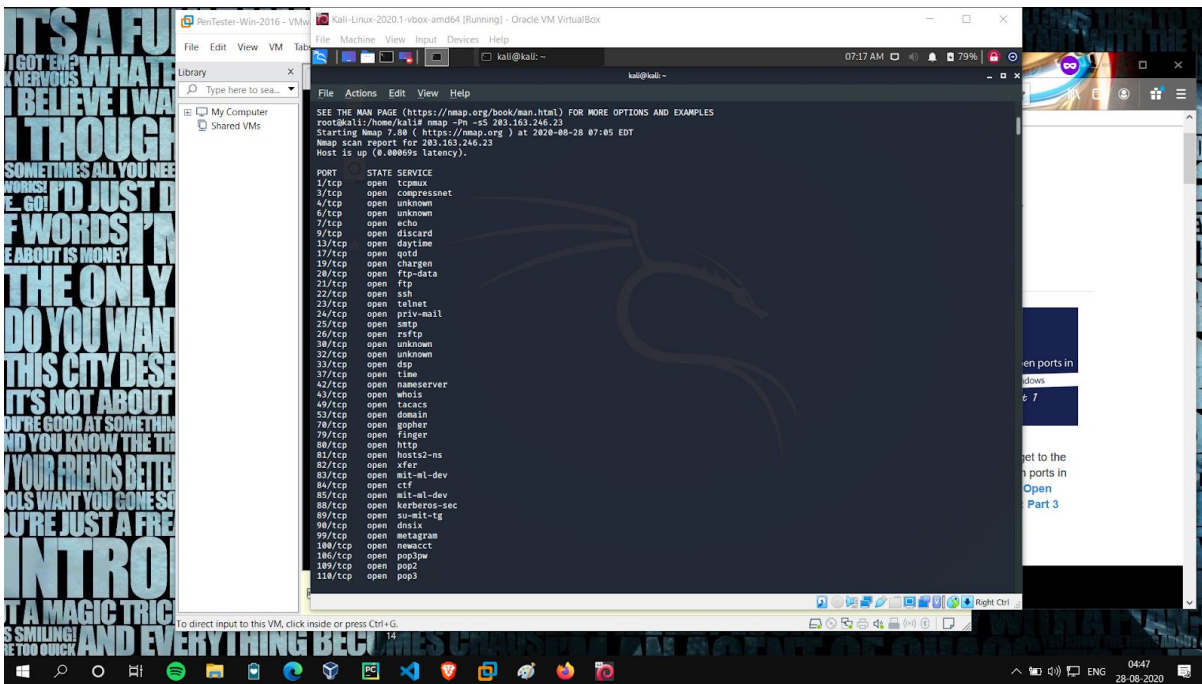


Question 3: Scan and find out port numbers open 203.163.246.23

Answer 3: For this is used KALI LINUX

STEPS:

- >> Open Kali Linux
- >> Open Terminal
- >> Get root access by typing "**sudo su**"
- >> Typed password and got into root
- >> Typed: **nmap -Pn -sS 203.163.246.23**
- >> Nmap starts to scan and got many ports
- But important ones are 21, 22, 80 etc...
- >> The screenshot is attached below:



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

Answer 4: Sorry couldn't installed nessus as I don't have business email.