Lab 6 - Nmap

TERM	NAME – Student ID	COURSE CODE	WEIGHT
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Lab Objectives

Upon completion of this lab, you will be able to perform the following:

- Become familiar with nmap switches;
- Use necessary switches to perform OS fingerprinting;
- Discover target host vulnerabilities.
- Extra miles will test your skills but not mandatory
 - Point booster

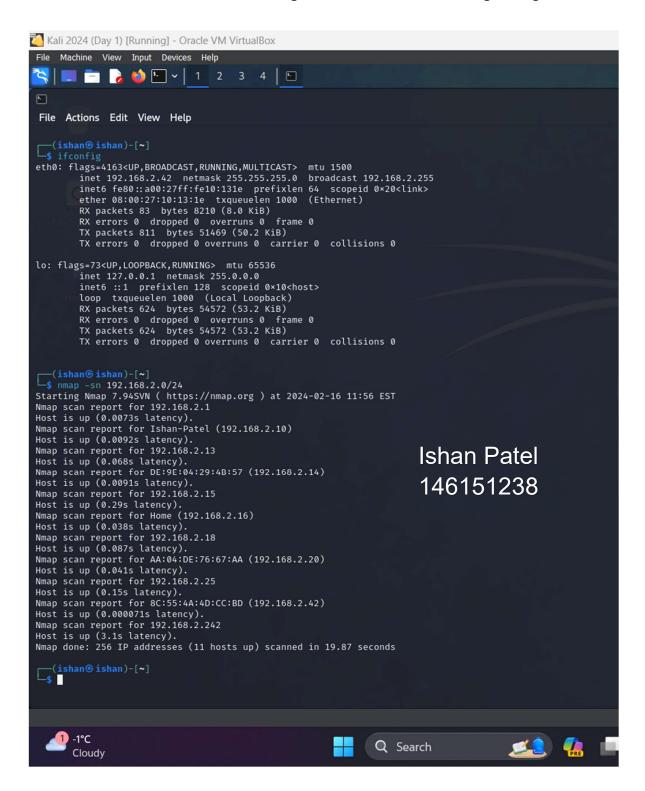
Part 1: No screenshots are required from Part 1.

I have used my home network for scanning using nmap. So the IP range will be 192.168.2.0/24. I don't have a ethernet which uses Realtek Controller.

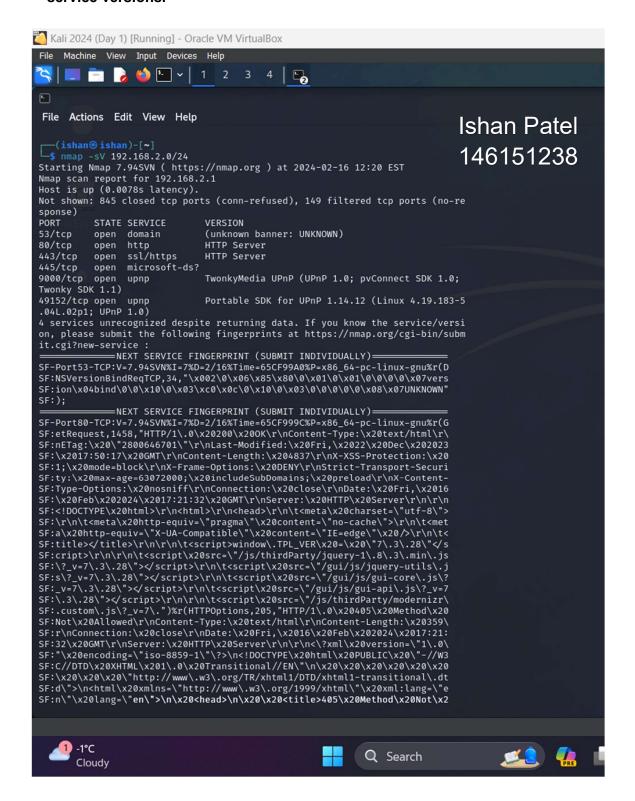
Part 2: Scanning

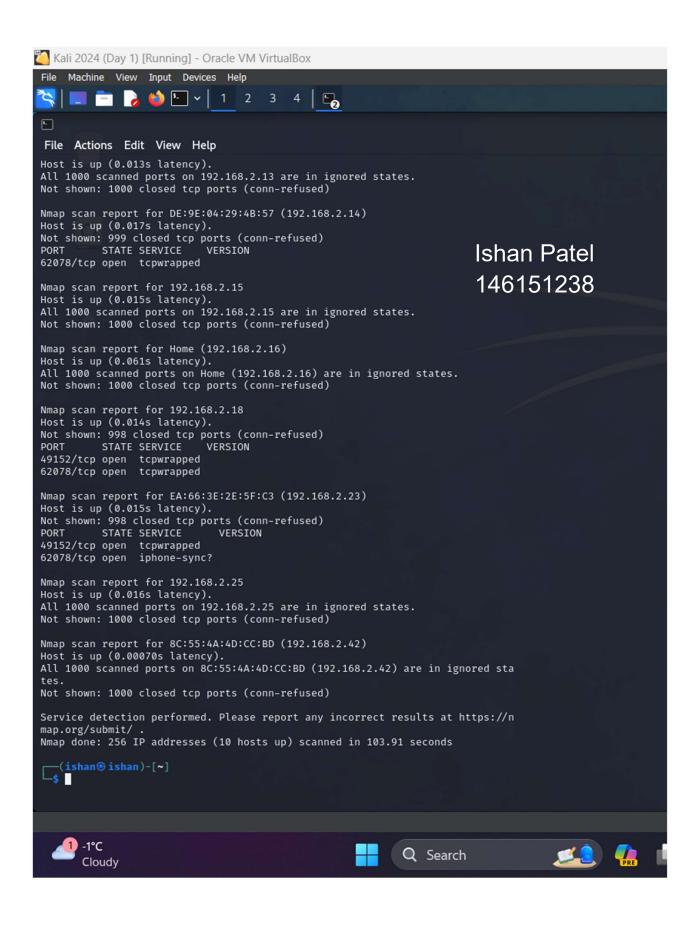
Use the IP range 172.16.11.0/26 as your target range.

1. What is NMAP switch to detect active IP addresses? Include a screenshot for detecting active hosts within the target range.

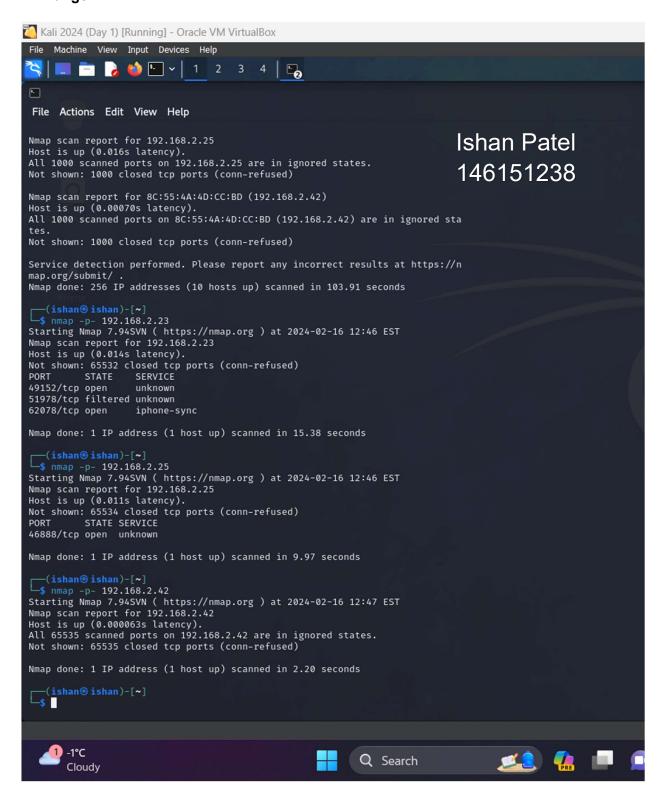


2. What is NMAP switch to detect running service version on open port? Include one screenshot for each target found in the range with the results of service versions.

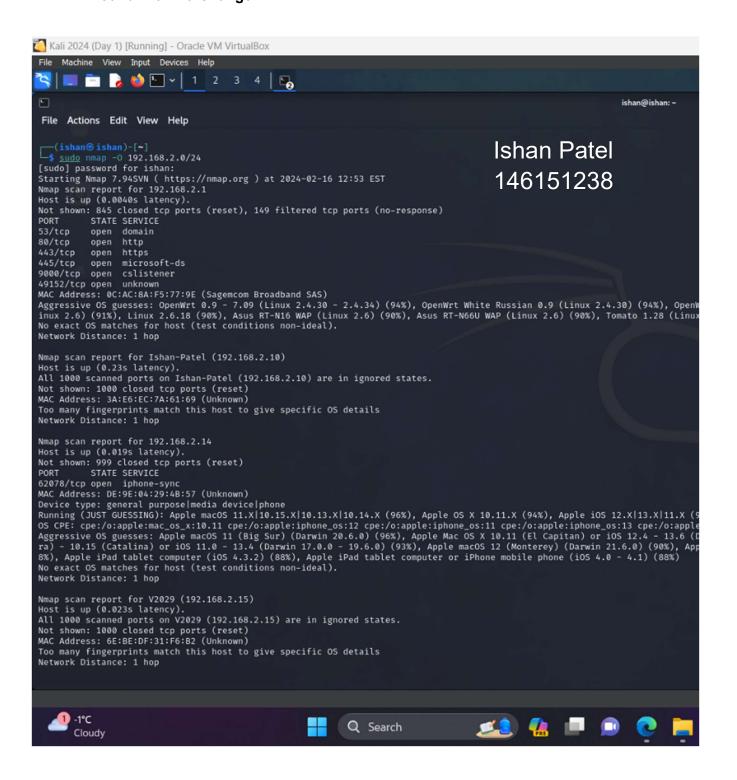


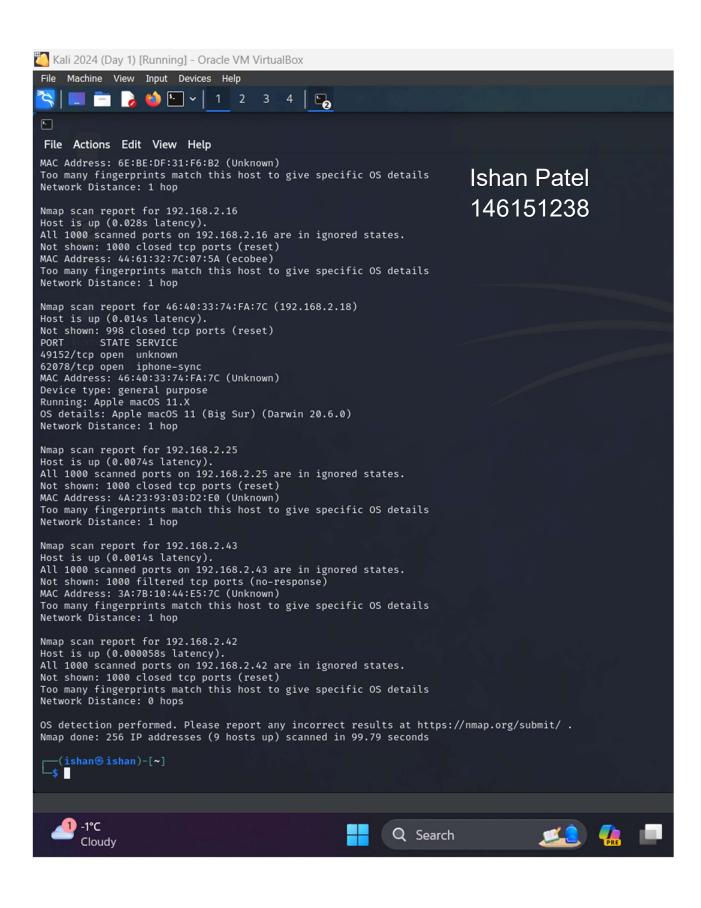


What is NMAP switch to scan ALL ports? Include a screenshot for running this command on one of the targets found in the range.

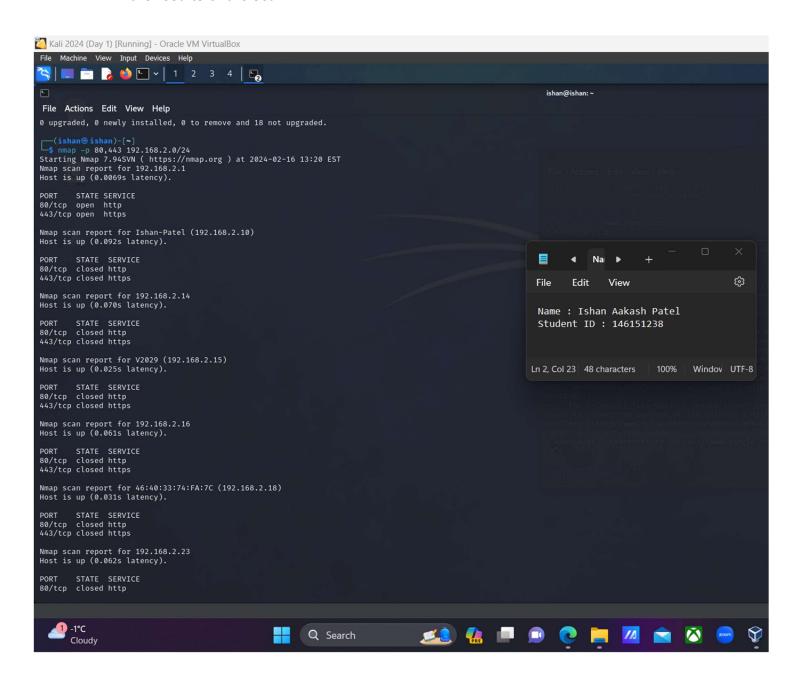


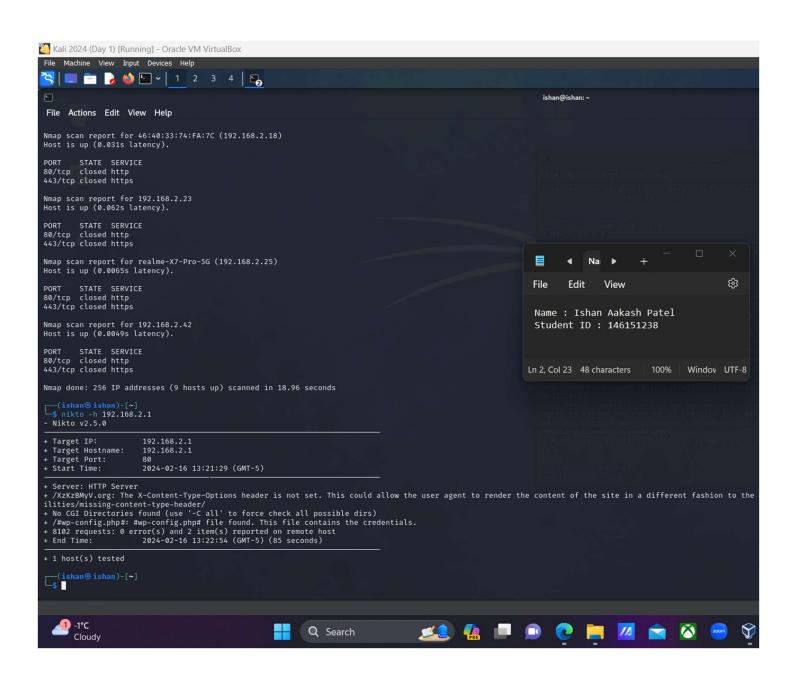
4. What is the NMAP switch to detect the operating system? Include one screenshots showing the operating system detected for each target found within the range.





5. Vulnerability Scanning: Use "nikto" web vulnerability scanner to scan one target host running web services. Include screenshots showing the command used and the results of the scan.





<u>Extra Mile</u> – not mandatory

Scan the provided IP address with nmap and provide screenshot:

- a. All TCP ports and treat host as "online"
- b. Top 100 UDP ports
- c. List Open TCP ports (if any)
- d. List open UDP ports (if any)

Part 2: Submit your lab



- Doublecheck all your answers.
- Save the file on your computer for future reference.
- Save the file again as a ".pdf" file.
- Submit the PDF file for grading.