Assignment 2

Nmap-scanning

Nmap is a powerful open-source tool used to scan websites and network hosts by sending packets and analyzing their responses. It helps discover open ports, running services, and potential vulnerabilities, assisting security professionals in network auditing and protection tasks. To properly submit your Nmap scan as a GitHub report or assignment, include the following sections: Introduction, Methodology (scan commands used), Results (with open ports and explanations), and Analysis. Save outputs in plain text or XML and attach these files as evidence in your repository or assignment folder.

Nmap Assignment Report

1. Introduction

This report documents an Nmap scan performed on the TryHackMe website to identify open ports and running services. The objective is to gain insights into the public-facing services for security assessment and documentation purposes.

2. Methodology

Scan Command Used:

```
nmap www.tryhackme.com -oN tryhachmereport_nmap.txt
```

- -oN outputs in normal text format for documentation.

3. Results

Scan Output Summary:

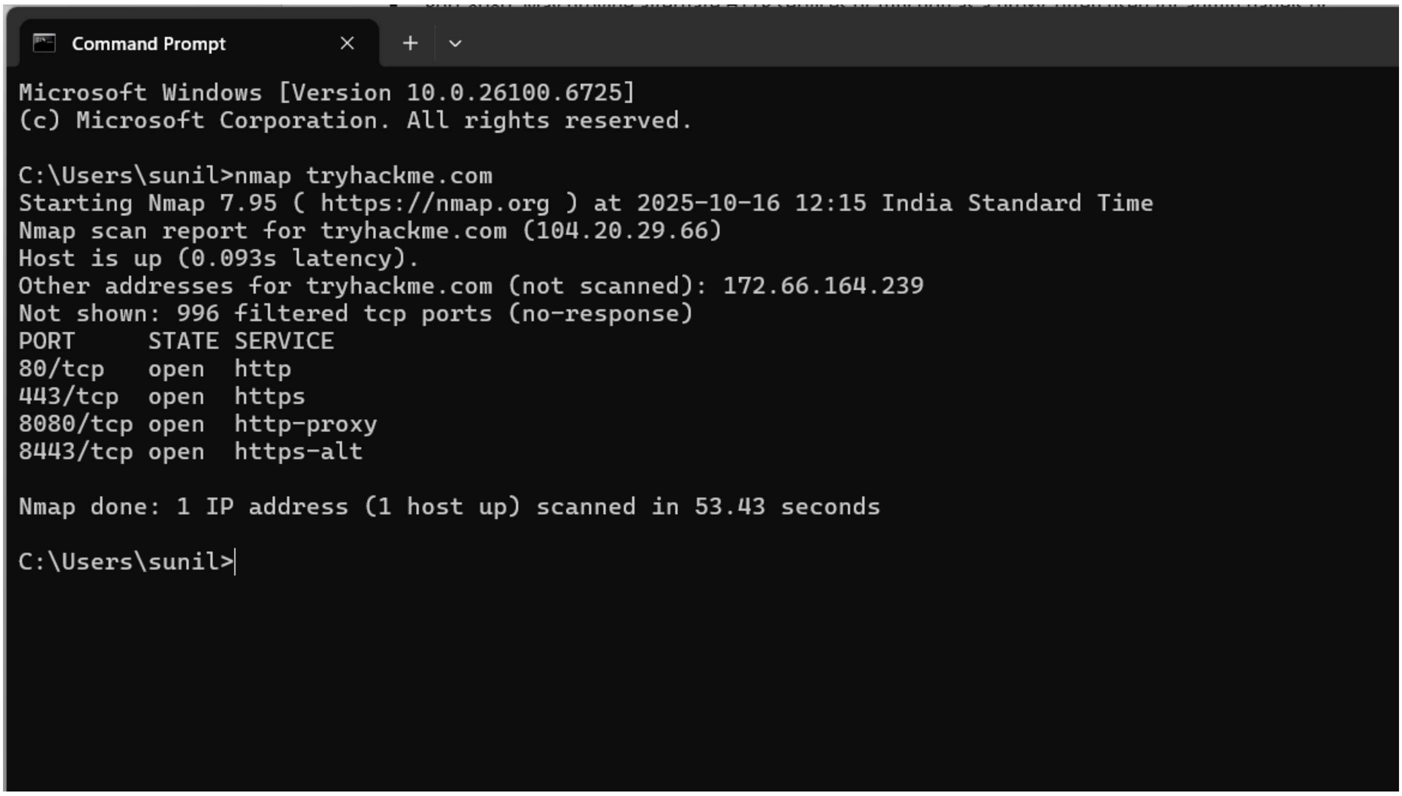
Port	State	Service	Description
80/tcp	open	http	Standard web server port for unencrypted web traffic
443/tcp	open	https	Secure port for encrypted SSL/TLS web traffic
8080/tcp	open	http-proxy	Often used for development, web proxies, or alternate HTTP services

The scan identified three open ports: 80 (HTTP), 443 (HTTPS), and 8080 (HTTP-proxy), all serving web-based content/services.

4. Analysis

- Port 80: Hosts the default web page; traffic is unencrypted.
- Port 443: Provides encrypted, secure web traffic via HTTPS.
- Port 8080: May provide alternate HTTP services or function as a proxy, often used for admin panels or alternate web applications.

tryhackmeoutput_nmap.txt



```
Microsoft Windows [Version 10.0.26100.6725]
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C:\Users\sunil>nmap tryhackme.com
Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-16 12:15 India Standard Time
Nmap scan report for tryhackme.com (104.20.29.66)
Host is up (0.093s latency).
Other addresses for tryhackme.com (not scanned): 172.66.164.239
Not shown: 996 filtered tcp ports (no-response)
PORT     STATE SERVICE
80/tcp   open  http
443/tcp  open  https
8080/tcp open  http-proxy
8443/tcp open  https-alt

Nmap done: 1 IP address (1 host up) scanned in 53.43 seconds

C:\Users\sunil>
```