

OLD DOMINION UNIVERSITY

CYSE 301 CYBERSECURITY TECHNIQUES AND OPERATIONS

Assignment: Lab 2– Traffic Tracing and Sniffing

Cora Wilson

01303228

## CYSE 301: Cybersecurity Technique and Operations

### Assignment 4: Ethical Hacking

At the end of this module, each student must submit a report indicating the completion of the following tasks. Make sure you take screenshots as proof.

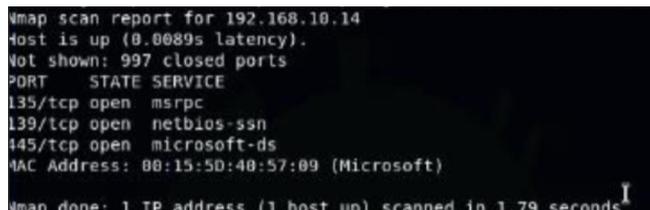
You need to power on the following VMs for this assignment.

- Internal Kali (or Attacker Kali)
- pfSense VM (power on only)
- Windows XP, Windows Server 2022, or Windows 7 (depending on the subtasks).

Task A. Exploit SMB on Windows XP with Metasploit (20 pt, 2pt each) Please activate Windows XP clock by following the document posted under Module-3 or demonstrated in class.

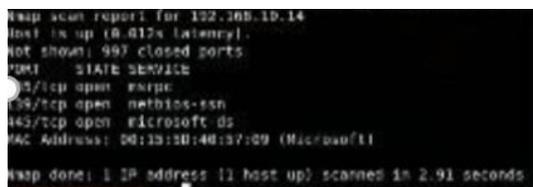
In this task, you need to complete the following steps to exploit SMB vulnerability on Windows XP.

1. Run a port scan against Windows XP using the nmap command to identify open ports, services, and vulnerabilities.



```
Nmap scan report for 192.168.10.14
Host is up (0.0089s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
MAC Address: 08:15:5D:48:57:09 (Microsoft)
Nmap done: 1 IP address (1 host up) scanned in 1.79 seconds
```

2. Identify the SMB port number (default: 445) and confirm that it is open.



```
Nmap scan report for 192.168.10.14
Host is up (0.012s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
135/tcp   open  msrpc
139/tcp   open  netbios-ssn
445/tcp   open  microsoft-ds
MAC Address: 08:15:5D:48:57:09 (Microsoft)
Nmap done: 1 IP address (1 host up) scanned in 2.91 seconds
```

3. Launch Metasploit Framework and search for the exploit module: ms08\_067\_netapi







b. Remote access to the malicious account created in the previous step and browse the files belonging to the user, "Windows 7", in RDP. (10 pt) You may follow the pdf for Pen testing



Task D. Extra Credit Try to set up a reverse shell connection with Metasploit to Windows 10 (10 points). You can use the technique we introduced in this class, or other exploits not covered by this course.