CSM EXAM PAPER – INEURON

Question 1- Scanning:

- > Task One -: Lab setup done.
- ➤ Task Two-: Both Kali and windows set-up in Host-Only network. Lab Setup done.
- > Task 3-: Host Found using command: net-discover.

```
File Actions Edit View Help

Currently scanning: finished | Screen View: Unique Hosts

3 Captured AMP Req/Rep packets, from 3 hosts. Total size: 188

TP At Mac Address Count Lem Mac Vendor: Mostname

192:186.186.188 8189:723-6186.189:717-2 1 80 Changama-tought likitomics CO.,LTD.

192:186.186.186.8889:723-6186.889:718-6186.897-2 1 90 Changama-tought likitomics CO.,LTD.

12th: suspended metdiscover = F 192.186.186.40/24
```

> Performed **NMAP** scan on the Host found.

Found multiple open ports like- 135, 139, 445 and 5357.

Next up I Scanned port 135 for any vulnerabilities.

```
I nmap — script=vuln -p135 192.168.166.36

Starting Nmap 7.93 ( https://nmap.org ) at 2023-12-13 16:16 IST

Nmap scan report for 192.168.166.36

Host is up (0.00068s latency).

PORT STATE SERVICE

135/tcp open msrpc

MAC Address: 08:00:27:62:17:7C (Oracle VirtualBox virtual NIC)

Nmap done: 1 IP address (1 host up) scanned in 24.52 seconds

[root@kali)-[~]
```

Found Nothing.

➤ Next I scanned port 139.

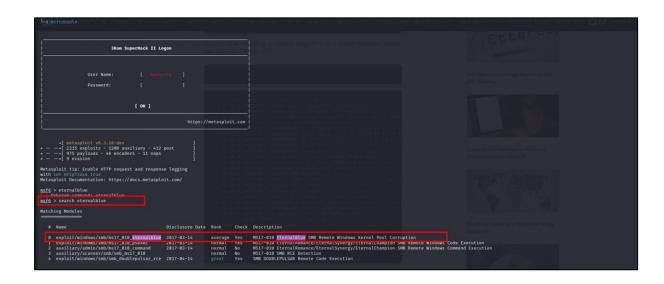
```
mmap --script=vuln -p139 192.168.166.36
Starting Nmap /.93 ( nttps://nmap.org ) at 2023-12-13 16:19 IST
Nmap scan report for 192.168.166.36
Host is up (0.0074s latency).
PORT
       STATE SERVICE
139/tcp open netbios-ssn
MAC Address: 08:00:27:62:17:7C (Oracle VirtualBox virtual NIC)
Host script results:
|_smb-vuln-ms10-054: false
_smb-vuln-ms10-061: NT_STATUS_ACCESS_DENIED
    VULNERABLE:
    Remote Code Execution vulnerability in Microsoft SMBv1 servers (ms17-010)
      State: VULNERABLE
            CVE:CVE-2017-0143
       Risk factor: HIGH
        A critical remote code execution vulnerability exists in Microsoft SMBv1
         servers (ms17-010).
      Disclosure date: 2017-03-14
       References:
         https://technet.microsoft.com/en-us/library/security/ms17-010.aspx
         https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-for-wannacrypt-attacks/
 _ https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-0143
_samba-vuln-cve-2012-1182: NT_STATUS_ACCESS_DENIED
  map done: 1 IP address (1 host up) scanned in 15.61 seconds
```

Found RCE and the vulnerable version (ms17-010).

Question -2: Exploitation

Next Up is started METASPLOIT to get RCE.

> Searched eternalblue got the exploit.



Next, setting up with RHOST, LHOST, LPORT.

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(int 1s a medical medical
```

> Got meterpreter.

Question 3- Password Attack

> Started session in the meterpreter and found multiple users.

> Dumped password for each-user.



ICE-CAST SERVER-:

- ➤ ICE-Cast stands for "Internet Communication Engine CAST" is an open-source streaming media server software that allows users to stream audio content over the Internet. It supports various audio formats such as MP3, Ogg-Vorbis, and AAC, making it versatile for different streaming needs.
- ➤ It is capable of serving a large number of concurrent listeners around the globe. It operates on the client-server model, where the server hosts audio files and streams them to clients (such as media players or web browsers) that request them.

Vulnerability Related to ICE-CAST SERVER-:

- ➤ **Buffer-Overflow(CVE-2018-18820) -:** A buffer overflow is a software vulnerability where a program writes more data into a buffer than it can hold, causing excess data to overwrite adjacent memory locations. This can lead to data corruption, program crashes, or, if exploited by attackers, unauthorized code execution, potentially compromising the security and stability of the system.
- ➤ **Exploitation-:** By sending malicious requests containing carefully crafted payloads designed to overflow the buffer, an attacker can potentially overwrite critical data structures or execute arbitrary code within the server's memory space. This can lead to the server becoming unstable, crashing, or becoming unresponsive.
- ➤ Impact-: "Buffer-Overflow can lead to Denial-of-service."

 Exploiting a buffer overflow vulnerability in ICE-Cast could result in a DoS condition. When the server crashes or becomes unresponsive due to the buffer overflow, it can no longer serve

legitimate requests from clients, effectively denying service to legitimate users.

```
The Actions Edit View Help

SMAPA/Crop open http

Increast streaming media server

SMAPA/Crop open masspe

Microsoft Windows RPC

49155//crop open masspe
Microsoft Windows RPC

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Microsoft Windows RPC

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Microsoft Windows RPC

49155//crop open masspe
Microsoft Windows RPC

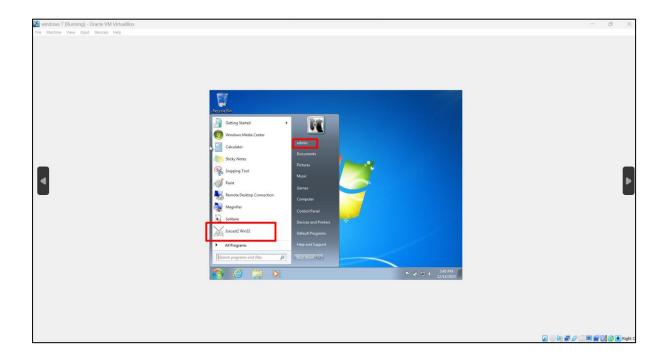
49155//crop open masspe
Microsoft Windows RPC

49155//crop open masspe
Microsoft Windows RPC

49156/crop open masspe
```

Question 4- Vulnerability Analysis and Exploit Research-:

➤ Got the password and logged in Admin user.



> Started Ice-cast server-:



➤ Again performed NMAP scan and found on which port the service is working.

Remark-: Due to lack of configuration unable to perform web-server based exploitation.

Question 6 -: Wireshark analysis

Ans1-: **Hydra**

Ans2-: **Jenny**

Ans3-: password123

Ans4-: var/www/html

Ans5-: **shell.php**

Ans6-: INEURON-PC

Ans7-: Site CHMOD 777 shell.php

Ans8-: Rootkit